



# BIBLIOGRAFI HASIL PENELITIAN TEKNOLOGI PASCAPANEN TANAMAN SAYURAN



**PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI PERTANIAN**  
**Badan Penelitian dan Pengembangan Pertanian**  
**Kementerian Pertanian**

2013

**Bibliografi**  
**Hasil Penelitian Teknologi**  
**Pascapanen Tanaman Sayuran**  
**2008-2013**

**Pusat Perpustakaan dan Penyebaran Teknologi Pertanian**  
**Badan Penelitian dan Pengembangan Pertanian**  
**Kementerian Pertanian**  
**2013**

**BIBLIOGRAFI  
HASIL PENELITIAN TEKNOLOGI  
PASCAPANEN TANAMAN SAYURAN**

**2013**

Diterbitkan oleh

**PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI PERTANIAN**

Jalan Ir. H. Juanda No 20 Bogor.

Telp. 0251 8321746, Faximili 0251 8326561

E-mail : [pustaka@litbang.deptan.go.id](mailto:pustaka@litbang.deptan.go.id)

Homepag : [www.pustaka.litbang.deptan.go.id](http://www.pustaka.litbang.deptan.go.id)

**ISBN. 978-979-8943-90-4**

**BIBLIOGRAFI**  
**HASIL PENELITIAN TEKNOLOGI**  
**PASCAPANEN TANAMAN SAYURAN**

*Pengarah* : Dr. Ir. Haryono, M.Sc

*Penanggung jawab* : Ir. Gayatri K. Rana, M.Sc

*Penyusun* : Setiawati  
Fidayati Ulfah, S.Sos

*Penyunting* : Ir. Heryati Suryantini, M.Si  
Hendrawaty, S.Sos

## KATA PENGANTAR

Bibliografi Teknologi Pascapanen Tanaman Sayuran tahun 2013 disusun dan disebarluaskan kepada para pengguna di lingkup Badan Litbang Pertanian. Penyusunan bibliografi ini dimaksudkan agar pengguna dapat mengetahui dan mengikuti perkembangan penelitian pertanian di berbagai negara sehingga dapat dijadikan sebagai rujukan untuk penelitian dan pengembangan pertanian di tanah air.

Bibliografi ini memuat data bibliografi hasil penelitian yang bersumber dari database yang dilanggan oleh Pusat Perpustakaan dan Penyebaran Teknologi Pertanian (PUSTAKA), yaitu *ProQuest*, *ScienceDirect*, *TEEAL (The Essential Electronic of Agricultural Library)*, *GREENR*, serta *CABI* dan *DOAJ (Directory Open Access Journal)*.

Penyusunan bibliografi ini diharapkan dapat memudahkan para pengguna, khususnya para peneliti Badan Litbang Pertanian dalam mencari informasi yang dibutuhkan, baik dalam rangka penyusunan proposal penelitian, penulisan ilmiah, laporan penelitian, maupun kegiatan penelitian dan kegiatan ilmiah lainnya.

Bibliografi Teknologi Pascapanen Tanaman Sayuran tahun 2013 berjumlah 831 judul artikel yang diterbitkan antara tahun 2008 hingga 2013. Selain diterbitkan dalam bentuk tercetak, bibliografi ini juga dapat diakses secara online melalui web PUSTAKA <http://pustaka.litbang.deptan.go.id>. Untuk mendapatkan artikel lengkapnya, dapat ditelusur melalui perpustakaan UK/UPT lingkup Badan Litbang Pertanian atau kontak langsung ke PUSTAKA melalui alamat email: [pustaka@litbang.deptan.go.id](mailto:pustaka@litbang.deptan.go.id) atau telepon ke nomor 0251-8321746, fax 0251-8326561. Bagi para peneliti yang datang ke PUSTAKA, penelusuran dapat dilakukan di ruang layanan perpustakaan yang berada di Lantai 1 Gedung B.

Bibliografi ini diharapkan dapat digunakan oleh peneliti setiap waktu, sehingga mampu mempercepat dan mempermudah para peneliti dalam mencari informasi yang dibutuhkan.

Kepala Pusat,

**Ir. Gayatri K. Rana, M.Sc.**

## DAFTAR ISI

<b>KATA PENGANTAR .....</b>	<b>i</b>
<b>DAFTAR ISI .....</b>	<b>ii</b>
Asparagus .....	1
Bawang Merah .....	6
Bawang Putih .....	8
Bayam .....	12
Brokoli .....	26
Buncis.....	43
Cabai .....	44
Kacang Jogo .....	51
Kembang Kol .....	52
Kentang .....	57
Kubis .....	76
Labu Merah .....	78
Lobak .....	78
Mentimun .....	80
Paprika .....	81
Sayuran .....	84

Selada .....	95
Terung .....	101
Tomat .....	101
Wortel .....	127
<b>INDEKS SUBJEK .....</b>	<b>154</b>

## **Asparagus 2008 ProQuest**

1. Changes in glucose, fructose and sucrose contents in storage roots of asparagus during vegetation period / Gasecka, M., Stachowiak, J., Krzesinski, W., Knaflewski, M., Golinski, P.  
*Vegetable Crops Research Bulletin*, Volume 69, Issue 145, 2008, ISSN 15069427  
**Keywords: Asparagus; Glucose; Fructose; Sucrose; Vegetation period; Storage roots**
2. Correlations between asparagus crop and the year of cropping, day of harvest, sugar contents in storage roots and spears and air temperature / Gasecka, M.; Stachowiak, J.; Krzesinski, W.; Knaflewski, M.; Golinski, P.  
*Vegetable Crops Research Bulletin*, Volume 68, Issue 93, 2008, ISSN 15069427  
**Keywords: Asparagus; Sugar content; Storage roots; Harvesting; Air temperature**

## **ScienceDirect**

3. Effect of three-stage hypobaric storage on membrane lipid peroxidation and activities of defense enzyme in green asparagus / Li, W.X., Zhang, M., Wang, S.J.  
*LWT - Food Science and Technology*, Volume 41, Issue 10, p. 2175-2181, December 2008, ISSN 0023-6438  
**Keywords: Green asparagus; Hypobaric storage; Lipid peroxidation; Free radicals; Defense enzyme**
4. Extending the shelf-life of asparagus spears with a compressed mix of argon and xenon gases / Zhang, M., Zhan, Z.G., Wang, S.J., Tang, J.M.  
*LWT - Food Science and Technology*, Volume 41, Issue 4, p. 686-691, May 2008, ISSN 0023-6438  
**Keywords: Noble gas mixture; Modified atmosphere packaging; Asparagus spear; Storage; Shelf life**
5. Peeling has no effect on respiration and ethylene production and only minimal effect on quality of fresh white asparagus spears / Siomos, A.S., Gerasopoulos, D., Tsouvaltzis, P., Koukounaras, A.  
*Postharvest Biology and Technology*, Volume 50, Issues 2-3, p. 224-227, November 2008, ISSN 0925-5214  
**Keywords: Light processing; Fresh cut; Antioxidants; Phenolics; Colour; Toughness**



6. Physical, chemical and microbiological changes in stored green asparagus spears as affected by coating of silver nanoparticles-PVP / Jianshen An, Min, Z., Shaojin, W., Juming, T.  
*LWT - Food Science and Technology*, Volume 41, Issue 6, p. 1100-1107, July 2008, ISSN 0023-6438  
**Keywords: Asparagus officinalis; Silver nanoparticles; Polyvinylpyrrolidone; Coating; Storage; Quality**

## TEEAL

7. Major anthocyanins from purple asparagus (*Asparagus officinalis*) / Sakaguchi, Y., Ozaki, Y., Miyajima, I., Yamaguchi, M., Fukui, Y., Iwasa, K., Motoki, S., Suzuki, T., Okubo, H.  
*Phytochemistry*, 2008, Volume 69, Issue 8, p. 1763-1766, ISSN 0031-9422  
**Keywords: Asparagus; Anthocyanins; Antioxidant properties; Chemical composition; Chemical structure; Free radicals**

## 2009

## CABI

8. Sanz, S., Olarte, C., Ayala, F., Echávarri, J.F.  
*Journal of Food Science*, Volume 74, Issue 6, p. S296-S302, 2009, ISSN 0022-1147  
**Keywords: Asparagus; Storage; Lighting; Atmosphere**
9. Impact of edible coatings and packaging on quality of white asparagus (*Asparagus officinalis*, L.) during cold storage / Tzoumaki, M.V., Biliaderis, C.G., Vasilakakis, M.,  
*Food Chemistry*, Volume 117, Issue 1, p. 55-63, 2009, ISSN 0308-8146  
**Keywords: White asparagus; Spears; Quality; Edible films; Texture; Anthocyanins; Lignification; Packaging; Cold storage**

## ScienceDirect

10. Quality and shelf-life of washed fresh-cut asparagus in modified atmosphere packaging/ Sothornvit, R., Kiatchanapaibul, P.  
*LWT - Food Science and Technology*, Volume 42, Issue 9, p. 1484-1490, November 2009, ISSN 0023-6438  
**Keywords: Asparagus; Washing; Microbial loads; Modified atmosphere packaging; Shelf life**

11. Quantitative assessment of intact green asparagus quality by near infrared spectroscopy / Rojas, K.F., Sánchez, M.T., Marín, D.P., Guerrero, J.E., Varo, A.G.  
*Postharvest Biology and Technology*, Volume 52, Issue 3, p. 300-306, June 2009, ISSN 0925-5214  
**Keywords: Green asparagus; NIR spectroscopy; Nondestructive analysis; Texture; Quality**

## TEEAL

12. Effect of the extraction method on phytochemical composition and antioxidant activity of high dietary fibre powders obtained from asparagus by-products / Fuentes Alventosa, J.M., Jaramillo-Carmona, S., Rodriguez, G.G., Rodriguez, A.R., Fernandez, B.J., Guillen, B.R., Espejo, Calvo, J.A., Jimenez, A.A.  
*Food Chemistry*, Volume 116, Issue 2, p. 484-490, 2009, ISSN 0308-8146  
**Keywords: Asparagus; Byproducts; Antioxidant activity; Extraction; Phytochemical composition**
13. Impact of edible coatings and packaging on quality of white asparagus (*Asparagus officinalis* L.) during cold storage / Tzoumaki, M.V., Biliaderis, C.G., Miltiadi, V.  
*Food Chemistry*, 2009, Volume 117, Issue 1, p. 55-63, ISSN 0308-8146  
**Keywords: Asparagus; Cold storage; Edible films; Packaging; Quality**

## 2010 CABI

14. Effect of wet refrigerated storage on keeping quality of cut *Asparagu* fronds / Parminder, S., Singh, K., Kumar, R.  
*Advances in Horticultural Science*, Volume 24, Issue 4, p. 280-281, 2010, ISSN 0394-6169  
**Keywords: Asparagus; Refrigerated; Storage; Quality**

## ScienceDirect

15. Effects of heat treatment on atmospheric composition and color of peeled white asparagus in modified atmosphere packaging / Siomos, A.S., Gerasopoulos, D., Tsouvaltzis, P., Koukounaras, A.  
*Innovative Food Science & Emerging Technologies*, Volume 11, Issue 1, p. 118-122, ISSN 1466-8564  
**Keywords: Light processing; Heat treatment; MAP; Anthocyanins; Asparagus officinalis**

16. Use of microwave processing to reduce the initial contamination by *Alicyclobacillus acidoterrestris* in a cream of asparagus and effect of the treatment on the lipid fraction / Giuliani, R., Bevilacqua, A. Corbo, M.R., Severini, C.  
*Innovative Food Science & Emerging Technologies*, Volume 11, Issue 2, p. 328-334, April 2010, ISSN 1466-8564  
**Keywords: Extra-virgin olive oil; Heating treatment; Microwave pasteurization; Microbial stabilization; Oil oxidation**

## 2011 CABI

17. Effects of storage temperature on the postharvest quality of three asparagus cultivars harvested in spring / Kitazawa, H., Motoki, S., Maeda, T., Ishikawa, Y., Hamauzu, Y., Matsushima, K., Sakai, H., Shiina, T., Kyutoku, Y.  
*Journal of the Japanese Society for Horticultural Science*, Volume 80, Issue 1, p. 76-81, 2011, ISSN 1882-3351  
**Keywords: Asparagus; Postharvest quality; Storage; Temperature**
18. Influence of modified atmosphere packaging and storage temperature on the sensory and microbiological quality of fresh peeled white asparagus / Simón, A., Fandos, E.G.,  
*Food Control*, Volume 22, Issue 3/4, p. 369-374, 2011, ISSN 0956-7135  
**Keywords: Asparagus officinalis; Minimal processing; Colour; Spoilage; Texture; Sensorial analysis; Shelf life; Modified atmosphere packaging; Vegetables**
19. Retention of chlorophylls in frozen French bean, green asparagus and pea prepared for consumption depending on pre-treatment before freezing and the temperature of frozen storage / Lisiewska, Z., Kmiecik, W., Gebczyn'ski, P.  
*Acta Alimentaria (Budapest)*, Volume 40, Issue 2, p. 217-226, 2011, ISSN 0139-3006  
**Keywords: Chlorophylls; Pretreatment; Frozen storage; Preparing for consumption; Green asparagus; Pea**

## ScienceDirect

20. Impact of PEF treatment on quality parameters of white asparagus (*Asparagus officinalis L.*) / Janositz, A., Semrau, J., Knorr, D.  
*Innovative Food Science & Emerging Technologies*, Volume 12, Issue 3, July 2011, p. 269-274, ISSN 1466-8564  
**Keywords: Pulsed electric fields; Asparagus; Storage; Lignin; Dry solids**

## 2012 CABI

21. Effects of environment and storage on rutin concentration in two asparagus cultivars grown in southern Ontario / Stoffyn, O.M., Tsao, R., Liu, R.H., D.J. Wolyn, *Canadian Journal of Plant Science*, Volume 92, Issue 5, p. 901-912, 2012, ISSN 0008-4220  
**Keywords: Health benefits; Antioxidants; Seasonal variation; Value added; Asparagus**

## ProQuest

22. Effect of 1-methylcyclopropene treatment on green asparagus quality during cold storage / Zhang, P., Zhang, M., Wang, S., Wu, Z. *International Agrophysics*, Volume 26, Issue 4, p. 407, Oct 2012, ISSN 02368722  
**Keywords: Green asparagus; Methylcyclopropene; Cold storage; Quality**

## ScienceDirect

23. Preparation of bioactive extracts from asparagus by-product / Alventosa, J.M.F., Carmona, S.J., Gutiérrez, G.R., Bejarano, R.G., Araujo, A.J., Bolaños, J.F., Arcos, R.R. *Food and Bioproducts Processing*, 20 December 2012, ISSN 0960-3085,  
**Keywords: Asparagus; Byproducts; Functional extracts; Phenolics; Bioactive fibre**

## 2013 ScienceDirect

24. Effect of chitosan coatings on postharvest green asparagus quality / Miao, Q., Hengjun, J., Gerui, R., Jianying, H., Xiangyang, W. *Carbohydrate Polymers*, Volume 92, Issue 2, p. 2027-2032, 15 February 2013, ISSN 0144-8617  
**Keywords: Chitosan; Green asparagus; Edible films; Shelf life**

25. High CO<sub>2</sub> effects on postharvest biochemical and textural properties of white asparagus (*Asparagus officinalis L.*) spears / Keil, S.H., Herppich, W.B.  
*Postharvest Biology and Technology*, Volume 75, p. 45-53, January 2013, ISSN 0925-5214  
**Keywords: Asparagus; CA; Storage; Carbon dioxide; Cell wall components; Mechanical properties**

## **Bawang Merah 2008 ScienceDirect**

26. Characterisation of onion (*Allium cepa L.*) by-products as food ingredients with antioxidant and antibrowning properties / Roldán, E., Moreno, C.S., De Ancos, B., Cano, M.P.  
*Food Chemistry*, Volume 108, Issue 3, p. 907-916, 1 June 2008, ISSN 0308-8146  
**Keywords: Onions; Byproducts; Freezing; Pasteurization; Sterilisation; Bioactive compounds; Antioxidants; Enzymatic browning; Food ingredient**
27. Effect of raw and cooked onion dietary fibre on the antioxidant activity of ascorbic acid and quercetin / Sun Waterhouse, D., Smith, B.G., O'Connor, C.J., Melton, L.D.  
*Food Chemistry*, Volume 111, Issue 3, p. 580-585, 1 December 2008, ISSN 0308-8146  
**Keywords: Ascorbic acid; Onions; Cell walls; Cyclic voltammetry; Antioxidant activity; Dietary fibre; FRAP assay; Pectin; Quercetin; Microwave; Steam cooking**

## **2009 ScienceDirect**

28. Influence of polymer coatings on water uptake and germination of onion (*Allium cepa L.* cv. Aki) seeds before and after storage / Kavak, S., Eser, B.  
*Scientia Horticulturae*, Volume 121, Issue 1, p. 7-11, 2 June 2009, ISSN 0304-4238  
**Keywords: Onions; Allium cepa; Seeds; Storage potential; Storability; Film coating; Hydrophobic ; Hydrophilic polymers**

## 2010 CABI

29. Contents of certain chemical components in shallot bulbs after harvest and long-term storage / Tendaj, M., Mysiak, B.  
*Acta Scientiarum Polonorum - Hortorum Cultus*, Volume 9, Issue 2, p. 75-83, 2010, 2010, ISSN 1644-0692  
**Keywords: Allium cepa; Cultivars, Sugars; Flavonoids; Phenolic acids; Storage**
30. Microbiological quality and sensory evaluation of shallot (*Allium ascalonium*) puree stored in modified atmosphere packaging / Noor A.A., Russly, A.R., Azizah, O.M.R., Ngadiman, K.  
*Journal of Tropical Agriculture and Food Science*, Volume 38, Issue 2, p. 179-188, 2010, ISSN 1394-9829  
**Keywords: Shallot; Puree; Modified atmosphere packaging; Microbiological quality; Sensory; Storage**

## 2011 ScienceDirect

31. Effect of sterilisation on dietary fibre and physicochemical properties of onion by-products / Benítez, V., Mollá, E., Cabrejas, M.A.M., Aguilera, Y., Andréu, F.J.L., Esteban, R.M.  
*Food Chemistry*, Volume 127, Issue 2, 15 July 2011, p. 501-507, ISSN 0308-8146  
**Keywords: Onions; Byproducts; Sterilisation; Dietary fibre; Physicochemical properties**
32. Effect of  $\gamma$ -radiation on green onion DNA integrity: Role of ascorbic acid and polyphenols against nucleic acid damage / Jimenez, L., Alarcón, E., Sutton, C.T., Gandhi, N., Scaiano, J.C.  
*Food Chemistry*, Volume 128, Issue 3, 1 October 2011, p. 735-741, ISSN 0308-8146  
**Keywords:  $\gamma$ -radiation; DNA; Green onion; Ascorbic acid; Antioxidant ability**
33. Flavonoids changes in fresh-cut onions during storage in different packaging systems / Gregorio, M.R.P., Falcón, M.S.G., Gándara, J.S.  
*Food Chemistry*, Volume 124, Issue 2, 15 January 2011, p. 652-658, ISSN 0308-8146  
**Keywords: Allium cepa; Flavonols; Anthocyanins; Packaging; Minimal processing**

## 2012 ProQuest

34. Valinia inia, a new early storage onion variety for Central South Chile / González, M.I.A., Herrera, P.V.  
*Chilean Journal of Agricultural Research*, Volume 72, Issue 1, p. 16-20, Jan-Mar 2012, ISSN 07185820  
**Keywords: Onions; Agricultural production; Storage; Selection**

## ScienceDirect

35. Freeze-dried fresh onion powder prevents green discolouration (greening) in macerated garlic / Eun, J.L., Kil, S.Y., Bhimanagouda, S.P.  
*Food Chemistry*, Volume 131, Issue 2, p. 397-404, 15 March 2012, ISSN 0308-8146  
**Keywords: Alliinase; Allium discolouration; Food processing; Lachrymatory factor; Onions**

## 2013 ScienceDirect

36. Total phenolics, antioxidant properties and quality of fresh-cut onions (*Allium cepa L.*) treated with mild-heat / Siddiq, M., Roidoung, S., Sogi, D.S., Dolan, K.D.  
*Food Chemistry*, Volume 136, Issue 2, p. 803-806, 15 January 2013, ISSN 0308-8146  
**Keywords: Onions; Fresh-cut; Mild-heat; Phenolics; Antioxidant properties; Colour; Weight loss; Storage**

## Bawang Putih 2008 DOAJ

37. Irradiation and packaging-food safety aspects and shelf life extension of solar dried garlic (*Allium sativum*) powder / Bibi, N., Khattak, A.B., Zeb, A., Mehmood, Z.  
*American Journal of Food Technology*, 2008, Volume 3, Issue 2, p. 118-126, ISSN/EISSN: 15574571 1557458X  
**Keywords: Garlic powder; Irradiation; Packaging; Solar drying; Storage**

## ScienceDirect

38. Experimental and theoretical investigation of drying behaviour of garlic in an inert medium fluidized bed assisted by microwave / Souraki, B.A., Mowla, D.  
*Journal of Food Engineering*, Volume 88, Issue 4, p. 438-449, October 2008, ISSN 0260-8774  
**Keywords: Fluidized bed drying; Microwave; Energy carrier; Inert material; Garlic; Mathematical modelling**
39. Model for constant temperature drying rates of case hardened slices of papaya and garlic / Fernando, W.J.N., Ahmad, A.L., Shukor, S.R.A., Lok, Y.H.  
*Journal of Food Engineering*, Volume 88, Issue 2, p. 229-238, September 2008, ISSN 0260-8774  
**Keywords: Diffusion; Drying; Mass transfer; Porous media; Transport processes; Unit operation**

## TEAL

40. Characterization of E- and Z-ajoene obtained from different varieties of garlicks / Taher, N.M., Mitsug, A., Kay, O., Tomok, M., Naofumi, M.  
*Food Chemistry*, Volume 106, Issue 3, p. 1113-1119, 2008, ISSN 0308-8146  
**Keywords: Garlic; E- and Z-ajoene; Plant biochemistry**
41. Diallyl sulfides: Selective inhibitors of family X DNA polymerases from garlic (*Allium sativum* L.) / Masayuk, N., Takahik, H., Kouj, K., Hidek, Y., Yuk, Y., Isok, K., Furni, S., Hirom, Y., Yoshiyuki, M.  
*Food Chemistry*, Volume 108, Issue 2, p. 551-560, 2008, ISSN 0308-8146  
**Keywords: Garlic; Allium sativum; Diallyl sulfide; Enzymology**
42. Effect of temperature cycling on allinase activity in garlic / Mendez, L.L.L., Francoi, C.  
*Food Chemistry*, Volume 111, Issue 1, p. 56-60, 2008, ISSN 0308-8146  
**Keywords: Garlic; Enzyme activity; Temperature cling**
43. Phenolics as antioxidants in garlic (*Allium sativum* L., Alliaceae) / Biljana, B., Dukic Ned, M., Isidor, S., Anacko, G., Ruzic, I.  
*Food Chemistry*, Volume 111, Issue 4, p. 925-929, 2008, ISSN 0308-8146  
**Keywords: Allium sativum; Metabolism; Phenolics; Antioxidant activity**
44. Synergistic effect of nisin and garlic shoot juice against *Listeria monocytogenes* in milk / Kim Eun, L., Choi Nan H., Bajpai, V.K., Kang, S.C.  
*Food Chemistry*, Volume 110, Issue 2, p. 375-382, 2008, ISSN 0308-8146  
**Keywords: Infection; Reproduction; Foods synergistic effect; Garlic shoot juice**



**2009**  
**ScienceDirect**

45. Drying kinetics and quality of vacuum-microwave dehydrated garlic cloves and slices / Figiel, A.  
*Journal of Food Engineering*, Volume 94, Issue 1, p. 98-104, September 2009, ISSN 0260-8774  
**Keywords: Garlic; Vacuum microwave drying; Shrinkage; Texture; Water absorption; Colour; Volatile oil**
46. Freezing and supercooling of garlic (*Allium sativum L.*) / James, C., Seignemartin, V., James, S.J.  
*International Journal of Refrigeration*, Volume 32, Issue 2, p. 253-260, March 2009, ISSN 0140-7007  
**Keywords: Garlic; Survey; Experiment; Freezing; Supercooling; Refrigerated storage; Enquête; Expérimentation; Congélation; Surfusion; Entreposage frigorifique**
47. Moisture transport in garlic cloves undergoing microwave-convective drying / Sharma, G.P., Prasad, S., Chahar, V.K.  
*Food and Bioproducts Processing*, Volume 87, Issue 1, p. 11-16, March 2009, ISSN 0960-3085  
**Keywords: Microwave drying; Air velocity; Air temperature; Moisture diffusivity; Moisture content**

**TEEAL**

48. Evaluation of enzyme-assisted extraction on quality of garlic volatile oil / Sowbhagya, H.B. Purnima, K.T., Florence, S.P., Rao, A.G., Srinivas, P.  
*Food Chemistry*, Volume 113, Issue 4, p. 1234-1238, 2009, ISSN 0308-8146  
**Keywords: Garlic ; Physicochemical properties; Quality**
49. Garlic (*Allium sativum L.*) and ready-to-eat garlic products: In vitro antioxidant activity / Queiroz, Y.S., Ishimoto, E.Y., Deborah, H.M. B., Geni, R.S., Elizabeth, A.F.S. T.  
*Food Chemistry*, Volume 115, Issue 1, p. 371-374, 2009, ISSN 0308-8146  
**Keywords: Ready to eat; Garlic; Antioxidant activity; Free radicals; Scavenging activity; Health food**
50. Isolation and identification of one kind of yellow pigments from model reaction systems related to garlic greening / Wang, D., Yang, X., Wang, Z., Hu, X., Zhao, G.  
*Food Chemistry*, Volume 117, Issue 2, p. 296-301, 2009, ISSN 0308-8146  
**Keywords: Garlic; Greening; Pigments; Reaction system; Isolation**

51. Pre-storage application of some essential oils and food preservatives against black mould incidence of garlic cloves during storage / El-Mougy, N.S., El-Gamal, N.G., Kader, M.M.A.  
*Archives of Phytopathology and Plant Protection*, 2009, Volume 42, Issue 11, p. 1059-1068, ISSN 0323-5408  
**Keywords: Allium sativum; Antifungal properties; Essential oils; Food preservatives; Storage decay; Plant diseases**

## 2010 TEAL

52. Diatomaceous earth enhances the toxicity of garlic, *Allium sativum*, essential oil against stored-product pests / Yang Feng, L., Liang G.W., Xu, Y.J., Lu, Y.Y., Zeng, L.  
*Journal of Stored Products Research*, Volume 46, Issue 2, p. 118-123, 2010, ISSN 0022-474X  
**Keywords: Pesticides; Pest assessment control; Diatomaceous earth; Allium sativum; Garlic; Stored product pests**

## 2011 ScienceDirect

53. Drying of garlic slices: Kinetics and nonlinearity measures for selecting the best equilibrium moisture content equation / Babetto, A.C., Freire, F.B., Barrozo, M.A.S., Freire, J.T.  
*Journal of Food Engineering*, Volume 107, Issues 3–4, December 2011, p. 347-352, ISSN 0260-8774  
**Keywords: Drying; Kinetics; Sorption isotherms; Nonlinearity measures; Garlic slices**

## 2012 DOAJ

54. Effect of different drying techniques on the quality of garlic: A Comparative study / Puranik, V., Srivastava, P., Mishra, V., Saxena, D.C.  
*American Journal of Food Technology*, Volume 7, Issue 5, p. 311-319, 2012, ISSN/EISSN: 15574571 1557458X  
**Keywords: Volatile oil retention; Sensory quality; Moisture loss**

## ScienceDirect

55. Effect of storage conditions on photostimulated luminescence of irradiated garlic and potatoes / Jae-Jun, A., Gui-Ran, K., Kashif, A., Kyong-Su, K., Joong-Ho, K.  
*Food Research International*, Volume 47, Issue 2, p. 315-320, July 2012, ISSN 0963-9969

**Keywords: Photostimulated luminescence ; Irradiation; Potato; Garlic; Detection**

2013

## ScienceDirect

56. Comparison of phenolic acids and flavonoids in black garlic at different thermal processing steps / Ji-Sang, K., Ok-Ju, K., Oh-Cheon, G.  
*Journal of Functional Foods*, Volume 5, Issue 1, p. 80-86, January 2013, ISSN 1756-4646

**Keywords: Black garlic; Phenolic acids; Flavonoids; Thermal processing**

57. Effects of storage duration, temperature and cultivar on the severity of garlic clove rot caused by *Fusarium proliferatum* / Llamas, D.P., Patón, L.G., Díaz, M.G., Serna, J.G., Sáez, S.B.  
*Postharvest Biology and Technology*, Volume 78, p. 34-39, April 2013, ISSN 0925-5214

**Keywords: Conidial viability; Mycelial growth; Control methods**

58. Response surface optimisation of process variables for microencapsulation of garlic (*Allium sativum L.*) oleoresin by spray drying / Balasubramani, P., Viswanathan, R., Vairamani, M.  
*Biosystems Engineering*, Volume 114, Issue 3, p. 205-213, March 2013, ISSN 1537-5110

**Keywords: Allium sativum; Spray drying; Process variables; Microencapsulation**

Bayam

2008

## ScienceDirect

59. Effect of chemical sanitizer combined with modified atmosphere packaging on inhibiting *Escherichia coli* O157:H7 in commercial spinach / Sun, Y.L., Seung, Y.B.  
*Food Microbiology*, Volume 25, Issue 4, p. 582-587, June 2008, ISSN 0740-0020

**Keywords: Spinach; Escherichia coli; Chemical sanitizers; MAP; Storage**

60. Effect of drying conditions on rehydration kinetics of microwave dried spinach / Dadali, G., Demirhan, E., Özbek, B.  
*Food and Bioprocess Processing*, Volume 86, Issue 4, p. 235-241, December 2008, ISSN 0960-3085  
**Keywords: Spinach; Rehydration kinetic; Peleg's model; Weibull model; Activation energy**
61. Heat shock increases mitochondrial H<sub>2</sub>O<sub>2</sub> production and extends postharvest life of spinach leaves / Gómez, F., Fernández, L., Gergoff, G., Guiamet, J.J., Chaves, A., Bartoli, C.G.  
*Postharvest Biology and Technology*, Volume 49, Issue 2, p. 229-234, August 2008, ISSN 0925-5214  
**Keywords: Ascorbic acid; Glutathione; Heat shock; Senescence; Hydrogen peroxide; Spinach; Tocopherols**
62. Influence of growing periods on the quality of baby spinach leaves at harvest and during storage as minimally processed produce / Conte, A., Conversa, G., Scrocco, C., Brescia, I., Laverse, J., Elia, A., Del Nobile, M.A.  
*Postharvest Biology and Technology*, Volume 50, Issues 2–3, p. 190-196, November 2008, ISSN 0925-5214  
**Keywords: Ascorbic acid; Baby spinach; Chlorophyll; Colour evaluation; Shelf life**
63. Pulsed electric field in combination with vacuum impregnation with trehalose improves the freezing tolerance of spinach leaves / Phoon, P.Y., Galindo, F.G., Vicente, A., Dejmek, P.  
*Journal of Food Engineering*, Volume 88, Issue 1, p. 144-148, September 2008, ISSN 0260-8774  
**Keywords: Pulsed electric fields; Vacuum impregnation; Cryoprotection; Cold stress**
64. Reduction of bacteria on spinach, lettuce, and surfaces in food service areas using neutral electrolyzed oxidizing water / Guentzel, J.L., Kang, L.L., Callan, M.A., Emmons, S.A., Dunham, V.L.  
*Food Microbiology*, Volume 25, Issue 1, p. 36-41, February 2008, ISSN 0740-0020  
**Keywords: Electrolyzed oxidizing water; Staphylococcus aureus; Listeria monocytogenes; Enterococcus faecalis**
65. Total and individual carotenoids and phenolic acids content in fresh, refrigerated and processed spinach (*Spinacia oleracea L.*) / Bunea, A., Andjelkovic, M., Socaciu, C., Bobis, O., Neacsu, M., Verhé, R., Van Camp, J.  
*Food Chemistry*, Volume 108, Issue 2, p. 649-656, 15 May 2008, ISSN 0308-8146  
**Keywords: Carotenoids; Phenolic compounds; Storage; Processing; Chromatography; Spectrophotometry; Mass-spectroscopy**

## TEAL

66. Coliforms and prevalence of *Escherichia coli* and foodborne pathogens on minimally processed spinach in two packing plants / Ilic, S., Odomeru, J. LeJeune, J.T.  
*Journal of Food Protection*, Volume 71, Issue 12, p. 2398-2403, 2008, ISSN 0362-028X  
**Keywords: Infection; Escherichia coli; Bacterial disease; Epidemiology; Disease outbreak; Spinach**
67. Reduction of *Escherichia coli* O157:H7 and Salmonella on baby spinach, using electron beam radiation / Neal, J.A., Cabrera, D.E., Marquez, G.M., Maxim, J.E., Alejandro, C.  
*Journal of Food Protection*, Volume 71, Issue 12, p. 2415-2420, 2008, ISSN 0362-028X  
**Keywords: Infection; Baby spinach; Escherichia coli; Salmonella; Electron beam radiation**
68. Spectroelectrochemistry of cytochrome b559 in the D1-D2-Cyt b559 complex from spinach / Shibamoto, T., Kato, Y., Watanabe, T.  
*FEBS Letters*, Volume 582, Issue 10, p. 1490-1494, 2008, ISSN 0014-5793  
**Keywords: Spinacia oleracea; Oxidation reduction potential; Spectroelectrochemistry; Cytochrome b559**
69. Spectroelectrochemistry of P700 in native photosystem I particles and diethyl ether-treated thylakoid membranes from spinach and *Thermosynechococcus elongatus* / Zhang, Y., Nakamura, A., Kuroiwa, Y., Kato, Y., Watanabe, T.  
*FEBS Letters*, Volume 582, Issue 7, p. 1123-1128, 2008, ISSN 0014-5793  
**Keywords: Spinacia oleracea; Synechococcus elongates; Photosystem-I; Redox-potential; Spinach; Thylakoids**
70. Survival and transfer of murine norovirus 1, a surrogate for human noroviruses, during the production process of deep-frozen onions and spinach / Baert, L., Uyttendaele, M., Vermeersch, M., Van, C.E., Debeverei, J.  
*Journal of Food Protection*, Volume 71, Issue 8, p. 1590-1597, 2008, ISSN 0362-028X  
**Keywords: Infection; Onions; Spinach; Survival; Murine norovirus**
71. Total and individual carotenoids and phenolic acids content in fresh, refrigerated and processed spinach (*Spinacia oleracea* L.) / Andre, B., Mirjana, A., Carme, S., Otili, B., Madalin, N., Rolan, V., Van Camp, J.,  
*Food Chemistry*, Volume 108, Issue 2, p. 649-656, 2008, ISSN 0308-8146  
**Keywords: Phenolic acid content; Carotenoid content; Processed spinach food**

## 2009 DOAJ

72. Influence of different drying methods and storage on the quality of indian spinach (*basella rubra* l.) / Oladele, O.O., Aborisade, A.T.  
*American Journal of Food Technology*, Volume 4, Issue 2, p. 66-70, 2009,  
ISSN/EISSN: 15574571 1557458X  
**Keywords: Drying techniques; Storage; Nutrient retention**

## ProQuest

73. Fate of Escherichia coli O157:H7 in the presence of indigenous microorganisms on commercially packaged baby spinach, as impacted by storage temperature and time[dagger] / Luo, Y., He, Q., McEvoy, J.L., Conway, W.S.  
*Journal of Food Protection*, Volume 72, Issue 10, p. 2038-2045, Oct 2009, ISSN 0362-028X  
**Keywords: Escherichia coli; Microorganisms; Food contamination ; Packaged good; Vegetables**

## ScienceDirect

74. Safety and quality assessment of packaged spinach treated with a novel ozone-generation system / Klockow, P.A., Keener, K.M.  
*LWT - Food Science and Technology*, Volume 42, Issue 6, July 2009, p. 1047-1053,  
ISSN 0023-6438  
**Keywords: Spinach; Ozone; Decontamination; Packaging; Escherichia coli**

## TEEAL

75. Determination of oxalic acid in spinach with carbon nanotubes-modified electrode / Yanqion, Z., Yang, C., Pu, W., Zhang, J.  
*Food Chemistry*, Volume 114, Issue 4, p. 1523-1528, 2009, ISSN 0308-8146  
**Keywords: Spinach; Diffusion coefficient; Linear response; Surface concentration; Modified glassy carbon electrode; Electrooxidation response**

76. Fate of *Escherichia coli* O157:H7 in the presence of indigenous microorganisms on commercially packaged baby spinach, as impacted by storage temperature and time / Luo, Y., He, Q., James, L.M., Conway, W.S.  
*Journal of Food Protection*, Volume 72, Issue 10, p. 2038-2045, 2009, ISSN 0362-028X  
**Keywords: Development; Foods storage time; Storage ;Temperature; Microbial growth; Product quality; Microbial enumeration; Packaged baby spinach ; Microorganism fate**
77. Inactivation of *Escherichia coli* O157:H7 on the intact and damaged portions of lettuce and spinach leaves by using allyl isothiocyanate, carvacrol, and cinnamaldehyde in vapor phase / Mohammad, O.M., Joseph, F. F.  
*Journal of Food Protection*, Volume 72, Issue 10, p. 2046-2055, 2009, ISSN 0362-028X  
**Keywords: Lettuce ; Spinach ; Microbial inactivation; Vapor phrase; Sealed package; Refrigerated leafy green**
78. Microbial antagonists of *Escherichia coli*O157:H7 on fresh-cut lettuce and spinach / Michael, A. J., Mark, H.A., Ruth, M.A.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1569-1575, 2009, ISSN 0362-028X  
**Keywords: Infection; Foods; Bacteriology antagonistic activity; Inhibitory activity; Pathogen load; Natural microflora; Baby spinach**
79. Survival of Hepatitis A virus in spinach during low temperature storage / Shieh, Y.C. , Stewart, D.S. Laird, D.T.  
*Journal of Food Protection*, Volume 72, Issue 11, p. 2390-2393, 2009, ISSN 0362-028X  
**Keywords: Infection; Digestive system; Foods; Survival rate; pH range; Spinach ; Temperature storage**
80. Use of the systems approach to determine the fate of *Escherichia coli* O157:H7 on fresh lettuce and spinach / Doering, H.J., Harrison, M.A., Morrow, R.A., Hurst, W.C., Kerr, W.L.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1560-1568, 2009, ISSN 0362-028X  
**Keywords: Infection; Foods; Chemical coordination; Homeostasis; Lettuce ; Spinach ; Iceberg lettuce ; Field temperature; Transportation condition; Product storage temperature**

## 2010 ScienceDirect

81. 1-Methyl cyclopropene extends postharvest life of spinach leaves/ Grozeff, G.G., Micieli, M.E., Gómez, F., Fernández, L., Guiamet, J.J., Chaves, A.R., Bartoli, C.G. *Postharvest Biology and Technology*, Volume 55, Issue 3, p. 182-185, March 2010, ISSN 0925-5214  
**Keywords: 1-MCP; Ammonium; Ascorbic acid; Ethylene; Glutathione; Protein degradation; Senescence; Spinach**
82. Alterations of the phylloepiphytic bacterial community associated with interactions of *Escherichia coli* O157:H7 during storage of packaged spinach at refrigeration temperatures/ Velasco, G.L., Davis, M., Boyer, R.R., Williams, R.C., Ponder, M.A. *Food Microbiology*, Volume 27, Issue 4, p. 476-486, June 2010, ISSN 0740-0020  
**Keywords: Spinach; Escherichia coli; Low temperature storage; DGGE; Microbial diversity; Phyllosphere bacterial community**
83. Corrigendum to “Safety and quality assessment of packaged spinach treated with a novel ozone-generation system” [LWT – Food Science and Technology 42 (2009) 1047–1053] / Klockow, P.A., Keener, K.M.  
*LWT - Food Science and Technology*, Volume 43, Issue 9, p. 1471, November 2010, ISSN 0023-6438  
**Keywords: Spinach; Ozone; Food safety; Quality**

## TEEAL

84. Behavior of *Escherichia coli* O157:H7 on damaged leaves of spinach, lettuce, cilantro, and parsley stored at abusive temperatures / Khalil, R.K., Frank, J.E.  
*Journal of Food Protection*, Volume 73, Issue 2, p. 212-220, 2010, ISSN 0362-028X  
**Keywords: Infection; Foods tissue damage; Leaf damage; Pathogen survival; Oxidation reaction; Pathogen growth; Growth niche; Microbial response**
85. Reduction of *Escherichia coli* O157:H7 in fresh spinach, using lactic acid bacteria and chlorine as a multihurdle intervention / Gragg, S.E., Brashears, M.M.  
*Journal of Food Protection*, Volume 73, Issue 2, p. 358-361, 2010, ISSN 0362-028X  
**Keywords: Spinach; Shelf life; Multihurdle intervention; Refrigerated food storage**



86. Study of flavonoids in aqueous spinach extract using positive electrospray ionisation tandem quadrupole mass spectrometry / Masood, D., Herv. A., Mookambeswaran, V.A. *Food Chemistry*, Volume 121, Issue 3, p. 863-870, 2010, ISSN 0308-8146  
**Keywords: Spinach; Extracts; Flavonoids; Mass spectrometry**

## 2011 DOAJ

87. Effect of drying methods on chemical composition of spinach aieifo (*amaranthus aquatica*) and pumpkin leaf (*telfairia occidentalis*) and their soup meals / Gladys, H.E.O.  
*Pakistan Journal of Nutrition*, Volume 10, Issue 11, p. 1061-1065, 2011, ISSN/EISSN: 16805194  
**Keywords: Sun drying; Shade drying; Chemical content; Green leafy vegetables**

## ScienceDirect

88. Cloning and gene expression analysis of phospholipase C in wounded spinach leaves during postharvest storage / Antonacci, S., Natalini, A., Cabassi, G., Horner, D., Ferrante, A.  
*Postharvest Biology and Technology*, Volume 59, Issue 1, January 2011, p. 43-52, ISSN 0925-5214  
**Keywords: Lipid peroxidation; Membrane degradation; PLC; PLD; Senescence**

## 2012 DOAJ

89. Effect of pre-processing steps, nitrite and irradiation combination preservation of a ready-to-eat spinach relish and sorghum porridge meal / Shilangale, R.P.  
*Food and Nutrition Sciences*, Volume 3, Issue 7, 2012, p. 873-878, DOI: 10.4236/fns.2012.37116, ISSN/EISSN: 2157944X 21579458  
**Keywords: Meals; Nitrite; Irradiation**

## ProQuest

90. Effect of pre-processing steps, nitrite and irradiation combination preservation of a ready-to-eat spinach relish and sorghum porridge meal / Shilangale, R.P.  
*Food and Nutrition Sciences*, Volume 3, Issue 7, p. 873-878 , Jul 2012, ISSN 2157944X  
**Keywords: Food irradiation; Meals; Microbiology; Bacteria; Free radicals; Cooking; Preservation; Nitrates; Methods**

## ScienceDirect

91. Characterization of the cultivable microbial community in a spinach-processing plant using MALDI-TOF MS / Hausdorf, L., Mundt, K., Winzer, M., Cordes, C., Fröhling, A., Schlüter, O., Klocke, M.  
*Food Microbiology*, Volume 34, Issue 2, p. 406-411, 7 November 2012, ISSN 0740-0020  
**Keywords: Postharvest processing; Vegetables; Bacteria; Identification; Whole cell MALDI-TOF mass spectra; 16S rRNA gene nucleotide sequence analysis**
92. Consumer freshness perception of spinach samples exposed to different storage conditions / Jung, Y.J., Padmanabahn, A., Hong, J.H., Lim, J., Kim, K.O.  
*Postharvest Biology and Technology*, Volume 73, p. 115-121, November 2012, ISSN 0925-5214  
**Keywords: Spinach; Freshness; Consumer perception; Physical measurement; Storage**
93. Effect of different processing parameters on the efficacy of commercial post-harvest washing of minimally processed spinach and shredded lettuce / Barrera, M.J., Blenkinsop, R., Warriner, K.  
*Food Control*, Volume 25, Issue 2, p. 745-751, June 2012, ISSN 0956-7135  
**Keywords: Fresh produce; Spinach; Lettuce; Wash water; Oxidation reduction potential; Peroxyacetic acid; Escherichia coli; Coliforms; Decontamination; Postharvest**
94. Effect of household and industrial processing on levels of five pesticide residues and two degradation products in spinach / Bonnechère, A., Hanot, V., Jolie, R., Hendrickx, M., Bragard, C., Bedoret, T., Van Loco, J.  
*Food Control*, Volume 25, Issue 1, p.397-406, May 2012, ISSN 0956-7135  
**Keywords: Pesticide residues; Home processing; Processing factor; Spinach**

95. Impact of cooking methods on folates, ascorbic acid and lutein in green beans (*Phaseolus vulgaris*) and spinach (*Spinacea oleracea*) / Delchier, N., Reich, M., Renard, C.M.G.C.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 197-201, December 2012, ISSN 0023-6438  
**Keywords: Vitamin C; Carotenoids; Freezing; Canning; Steaming**
96. Monitoring of fresh-cut spinach leaves through a multispectral vision system / Lunadei, L., Diezma, B., Lleó, L., Garcia, L.R., Cantalapiedra, S., Altisent, M.R.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 74-84, January 2012, ISSN 0925-5214  
**Keywords: RTU leafy spinach; Shelf life; Multispectral image; Image algorithm; Classification**
97. Particle size distribution of nano-mist in a spinach-storage atmosphere and its effect on respiration and qualities / Saenmuang, S., Al-Haq, M.I., Makino, Y., Kawagoe, Y., Oshita, S.  
*Journal of Food Engineering*, Volume 112, Issues 1–2, p. 69-77, September 2012, ISSN 0260-8774  
**Keywords: Humidification; Nano-mist; Particle size distribution; Respiration; Spinach; Vapor pressure deficit**
98. Short postharvest storage under low relative humidity improves quality and shelf life of minimally processed baby spinach (*Spinacia oleracea L.*) / María S.M., Tudela, J.A., Marín, A., Allende, A., Gil, M.I.  
*Postharvest Biology and Technology*, Volume 67, p. 1-9, May 2012, ISSN 0925-5214,  
**Keywords: Baby leaf; Fresh-cut; Minimal processing; Fresh produce; Microbiological quality**

## 2013 ScienceDirect

99. Diffusivity of 1-methylcyclopropene in spinach and bok choy leaf tissue, disks of tomato and avocado fruit tissue, and whole tomato fruit / Dong, X., Sánchez, M.R., Huber, D.J., Jingping, R., Zhengke, Z., Sun Tay, C., James, H.L.  
*Postharvest Biology and Technology*, Volume 78, p. 40-47, April 2013, ISSN 0925-5214  
**Keywords: Avocado; Diffusion; Metabolism; 1-Methylcyclopropene; Ripening; Tomato**
100. Low irradiance pulses improve postharvest quality of spinach leaves (*Spinacia oleraceae L. cv Bison*) / Grozeff, G.E.G., Chaves, A.R., Bartoli, C.G.  
*Postharvest Biology and Technology*, Volume 77, p. 35-42, March 2013, ISSN 0925-5214  
**Keywords: Ascorbic acid; Ethylene; Glutathione; Light pulses; Senescence; Spinach**

101. Modeling the growth rates of *Escherichia coli* spp. and *Salmonella Typhimurium* LT2 in baby spinach leaves under slow cooling / Gomez, A.F.P., Moreira, R.G., Kim, J., Perez, E.C.  
*Food Control*, Volume 29, Issue 1, p. 11-17, January 2013, ISSN 0956-7135  
**Keywords: Safety; Leafy vegetables; Growth rate; Foodborne illness; Modelling**
102. Off-odour development in modified atmosphere packaged baby spinach is an unresolved problem / J.A. Tudela, A. Marín, Y. Garrido, M. Cantwell, M.S.M. Martínez, M.I. Gil  
*Postharvest Biology and Technology*, Volume 75, p. 75-85, January 2013, ISSN 0925-5214  
**Keywords: Spinacia oleracea ; Baby leaf; Minimal processing; MAP; Quality; Microbiology**

**BIT  
2008  
DOAJ**

103. Effect of starch as an edible coating material on the process of osmotic dehydration of carrot in saccharose solution and sugar beet molasses / Lević, L.B., Koprivica, G.B., Mišljenović, N.M., Filipčev, B.V., Simurina, O.D., Kuljanin, T.A.  
*Acta Periodica Technologica*, 2008, Volume 2008, Issue 39, p. 29-36, DOI: 10.2298/APT0839029L, ISSN/EISSN: 14507188  
**Keywords: Osmotic dehydration; Carrots; Edible films; Molasses; Saccharose**
104. Electric double layer and electrokinetic potential of pectic macromolecules in sugar beet / Kuljanin, T.A., Lević, L.B., Mišljenović, N.M., Koprivica, G.B.  
*Acta Periodica Technologica*, Volume 2008, Issue 39, p. 21-28, DOI: 10.2298/APT0839021K, 2008 ISSN/EISSN: 14507188  
**Keywords: Electrokinetic potential; Electric double layer; Sugar beet pectins**

**ProQuest**

105. Post-harvest regulated gene expression and splicing efficiency in storage roots of sugar beet (*Beta vulgaris* L.) / Rotthues, A., Kappler, J., Lichtfuß, A., Kloos, D.U., Stahl, D.J., Hehl, R.  
*Planta*, Volume 227, Issue 6, p. 1321-1332, May 2008, ISSN: 0032-0935  
**Keywords: Beta vulgaris; Cloning; DNA Primers; Plant roots; Polymerase chain reaction**

## TEEAL

106. Evidence for a blockwise distribution of acetyl groups onto homogalacturonans from a commercial sugar beet (*Beta vulgaris*) pectin / Ralet, M.C., Crepeau, M.J., Bonnin, E. *Phytochemistry*, Volume 69, Issue 9, p. 1903-1909, 2008, ISSN 0031-9422  
**Keyword: Chemical structure; Enzymes; Hydrolysis; Microbial degradation; Pectinesterase; Pectins; Polygalacturonase; Sugar beet; Beta vulgaris**

## 2009 DOAJ

107. Bioethanol production from intermediate products of sugar beet processing with different types of *Saccharomyces cerevisiae* / Ranković, J., Dodić, J., Dodic, S., Popov, S. *Chemical Industry and Chemical Engineering Quarterly*, Volume 15, Issue 1, p. 13-16, 2009 ISSN/EISSN 14519372 22177434  
**Keywords: Saccharomyces cerevisiae; Bioethanol; Raw juice; Thin juice; Thick juice; Molasses**
108. Changes in nutritive and textural quality of apple osmodehydrated in sugar beet molasses and saccharose solutions / Koprivica, G.B., Mišljenović, N.M., Lević, L.B., Pribis, V.S. *Acta Periodica Technologica*, Volume 40, p. 35-46, DOI: 10.2298/APT0940035K, ISSN/EISSN: 14507188  
**Keywords: Osmotical dehydration; Apple; Saccharose; Sugar beet molasses**
109. Osmotic dehydration of red cabbage in sugar beet molasses: Mass transfer kinetics / Misljenovic, N.M., Koprivica, G.B., Lević, L.B., Filipcevc, B.V., Kuljanin, T.A. *Acta Periodica Technologica* ISSN/EISSN: 14507188 Year: 2009 Volume: 2009 Issue: 40 p. 145-154 DOI: 10.2298/APT0940145M  
**Keywords: Osmotic dehydration; Red cabbage; Mass transfer kinetic; Sugar beet molasses**
110. Treatment of sugar beet thick juice spent wash by chemical and natural coagulants / Šćiban, M.B., Klačnja, M.T., Antov, M.G. *Acta Periodica Technologica*, Volume 40, p. 177-182, 2009, DOI: 10.2298/APT0940177S, ISSN/EISSN 14507188  
**Keywords: Tick juice stillage; Coagulation; Alum; Natural coagulants**

## ProQuest

111. Carbohydrate remobilization from storage root to leaves after a stress release in sugar beet (*Beta vulgaris* L.): experimental and modelling approaches / Launay, M., Graux, A.I., Brisson, N., Guerif, M.  
*Journal of Agricultural Science*, Volume 147. Issue 6, p. 669-682 , Dec 2009, ISSN 00218596  
**Keywords: Sugar beet; Carbohydrates; Storage; Roots; Leaves; Stress release**

## TEAL

112. Purification and characterisation of polyphenol oxidase from red Swiss chard (*Beta vulgaris* subspecies cicla) leaves / Gao-Zhao, J., Han-Xiao, H., Xiao, X.G.  
*Food Chemistry*, Volume 117, Issue 2, p. 342-348, 2009, ISSN 0308-8146  
**Keywords: Beta vulgaris; Polyphenol oxidase; Purification**

## 2010 ScienceDirect

113. Effects of gamma irradiation on bio-chemical and physico-chemical parameters of fresh-cut red beet (*Beta vulgaris* L. var. conditiva) root / Latorre, M.E., Narvaiz, P., Rojas, A.M., Gerschenson, L.N.  
*Journal of Food Engineering*, Volume 98, Issue 2, p. 178-191, May 2010, ISSN 0260-8774  
**Keywords: Red beet; Gamma irradiation; Enzymes; Biochemical parameters; Mechanical parameter**

## TEAL

114. Inactivation of peroxidase and polyphenol oxidase in red beet (*Beta vulgaris* L.) extract with continuous high pressure carbon dioxide / Liu, X., Gao, Y., Xu, H., Hao, Q., Liu, G., Wang, Q.  
*Food Chemistry*, Volume 119, Issue 1, p. 108-113, 2010, ISSN 0308-8146  
**Keywords: Plant biochemistry; Pharmacognosy; Reaction rate; Antioxidant capacity; Reduction time; Beta vulgaris**

## 2011 DOAJ

115. Analysis of pretreatments of sugar beet shreds for bioethanol production in respect of cellulose hydrolysis and waste flows / Ivetić, D.Ž., Vasić, V.M., Šćiban, M.B., Antov, M.G.  
*Acta Periodica Technologica*, Volume 42, p. 223-230, 2011, DOI: 10.2298/APT1142223I, ISSN/EISSN 14507188  
**Keywords: Lignocellulose; Bioethanol; Pretreatment; Enzymatic hydrolysis; Wastewater**
116. Application of Peleg model to study mass transfer during osmotic dehydration of apple in sugar beet molasses / Misljenovic, N.M., Koprivica, G.B., Pezo, L.L., Kuljanin, T.A., Bodroža, S.M.I., Filipčev, B.V.  
*Acta Periodica Technologica*, Volume 42, p. 91-100, 2011, DOI: 10.2298/APT1142091M, ISSN/EISSN: 14507188  
**Keywords: Peleg's model; Osmotic dehydration; Sugar beet molasses**
117. Interpreting the neural network for prediction of fermentation of thick juice from sugar beet processing / Jokic, A.I., Grahovac, J.A., Dodić, J.M., Zavargo, Z.Z.  
*Acta Periodica Technologica*, Volume 42, p. 241-249, 2011, DOI: 10.2298/APT1142241J, ISSN/EISSN: 14507188  
**Keywords: Bioethanol; Fermentation; Processing; Neural network; Garson equation; Connection weights**
118. Process of obtaining of sugar from sugar beet and influence on its quality / Bojnanska, T., Bennar, M., Francakova, H., Tokar, M.  
*Potravinarstvo : Scientific Journal for Food Industry*, Volume 5, Issue 1, p. 1-4, ISSN/EISSN 13380230 13370960, DOI: 10.5219/122  
**Keywords: Crystallization process; Crystal size; Slurry massecuite; Cooling temperature**

## ScienceDirect

119. Betalainic and nutritional profiles of pigment-enriched red beet root (*Beta vulgaris L.*) dried extracts / Nemzer, B., Pietrzkowski, Z., Spórna, A., Stalica, P., Thresher, W., Michałowski, T., Wybraniec, S.  
*Food Chemistry*, Volume 127, Issue 1, 1 July 2011, p.42-53, ISSN 0308-8146  
**Keywords: Betalains; Betanin; 2-Decarboxy-betanin; 17-Decarboxy-betanin; Neobetainin; Decarboxylation; Dehydrogenation; Red beet root; Spray drying; Beta vulgaris**

## 2012 DOAJ

120. Artificial neural network approach to modeling of alcoholic fermentation of thick juice from sugar beet processing / Jokic, A.I., Grahovac, J.A., Dodic, J.M., Zoltan, Z.  
*Hemijska Industrija*, 2012, Volume 66, Issue 2, p. 211-221, DOI: 10.2298/HEMIND110805085J, ISSN/EISSN 0367598X  
**Keywords: Bioethanol; Thick juice; Sugar beet; Neural network**
121. Ethanol fermentation of molasses by *Saccharomyces cerevisiae* cells immobilized onto sugar beet pulp / Vucurovic, V.M., Razmovski, R.N.  
*Acta Periodica Technologica*, Volume 43, p. 325-333, 2012, DOI: 10.2298/APT1243325V, ISSN/EISSN: 14507188  
**Keywords: Immobilization; Bioethanol; Sugar beet pulp; Molasses; *Saccharomyces cerevisiae***

## ScienceDirect

122. Microwave inactivation of red beet (*Beta vulgaris L. var. conditiva*) peroxidase and polyphenoloxidase and the effect of radiation on vegetable tissue quality / Latorre, M.E., Bonelli, P.R., Rojas, A.M., Gerschenson, L.N.  
*Journal of Food Engineering*, Volume 109, Issue 4, p. 676-684, April 2012, ISSN 0260-8774  
**Keywords: Red beet; Blanching; Microwave; Enzymes; Texture; Colour**
123. Rheological performance of pectin-enriched products isolated from red beet (*Beta vulgaris L. var. conditiva*) through alkaline and enzymatic treatments / Fissore, E.N., Rojas, A.M., Gerschenson, L.N.  
*Food Hydrocolloids*, Volume 26, Issue 1, p. 249-260, January 2012, ISSN 0268-005X,  
**Keywords: Red beet; Pectin; Alkaline treatment; Enzymes; Rheology; Dairy products**

## 2013 DOAJ

124. Effect of copper ions, aluminium ions and their mixtures on separation of pectin from the sugar beet juice / Kuljanin, T.A., Misljenovic, N.M., Koprivica, G.B., Jevrić, L.R., Grbić, J.P.  
*Hemijska Industrija*, Volume 67, Issue 1, 2013, ISSN/EISSN 0367598X, p. 69-76, DOI: 10.2298/HEMIND120213043K  
**Keywords: Pectin; Sugar beet; CuSO<sub>4</sub>;na Zeta potential**



## ScienceDirect

125. Blanching of red beet (*Beta vulgaris* L. var. *conditiva*) root. Effect of hot water or microwave radiation on cell wall characteristics / Latorre, M.E., de Escalada Plá, M.F., Rojas, A.M., Gerschenson, L.N.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 193-203, January 2013, ISSN 0023-6438  
**Keywords: Red beet; Blanching; Microwave; Cell wall; Microstructure**
126. Utilization of concentrate after membrane filtration of sugar beet thin juice for ethanol production / Rygielska, J.K., Pietrzak, W., Regiec, P., Stencel, P.  
*Bioresource Technology*, 24 January 2013, ISSN 0960-8524  
**Keywords: Ethanol fermentation; Membrane filtration; Sugar beet juice; Concentrate; Saccharomyces cerevisiae**

## Brokoli 2008 CABI

127. Influence of blanching and freezing broccoli (*Brassica oleracea* var. *italica*) prior to storage and cooking on glucosinolate concentrations and myrosinase activity / Rungapamestry, V., Duncan, A.J., Fuller, Z., Ratcliffe, B.  
*European Food Research and Technology*, Volume 227, Issue 1, p. 37-44, 2008, ISSN 1438-2377  
**Keywords: Glucosinolates; Myrosinase; Broccoli; Blanching; Freezing; Cooking; Storage**
128. Modified-atmosphere packaging (MAP) does not affect the bioavailability of tocopherols and carotenoids from broccoli in humans: A cross-over study/ Granado-Lorencio, F., Alonso, B.O., Barbudo, C.H., Moreno, C.S., De Ancos, B., Martínez, J.A., Sacristán, B.P., Navarro, I.B.  
*Food Chemistry*, Volume 106, Issue 3, p. 1070-1076, 2008, ISSN 0308-8146  
**Keywords: Bioavailability; Food processing; Carotenoids; Vitamin E; Public health**
129. Qualitative changes in the broccoli (*Brassica oleracea italica*) under modified atmosphere packaging in perforated polymeric film / Rai, D.R., Tyagi, S.K., Jha, S.N., Mohan, S.  
*Journal of Food Science and Technology (Mysore)*, Volume 45, Issue 3, p. 247-250, 2008, ISSN 0022-1155  
**Keywords: Broccoli; Modified atmosphere packaging; Perforated; Polypropylene film**

## ProQuest

130. Influence of blanching and freezing broccoli (*Brassica oleracea* var. *italica*) prior to storage and cooking on glucosinolate concentrations and myrosinase activity / Rungapamestry, V., Duncan, A.J., Fuller, Z., Ratcliffe, B.  
*European Food Research and Technology*, Volume 227, Issue 1, p. 37-44, May 2008, ISSN: 1438-2377  
**Keywords: Broccoli; Freezing; Blanching; Storage; Cooking; Glucosinolates; Myrosinase activity**

## ScienceDirect

131. Effect of combined treatment with hot air and UV-C on senescence and quality parameters of minimally processed broccoli (*Brassica oleracea* L. var. *italica*) / Lemoine, M.L., Civello, P.M., Chaves, A.R., Martínez, G.A.  
*Postharvest Biology and Technology*, Volume 48, Issue 1, p. 15-21, April 2008, ISSN 0925-5214  
**Keywords: Broccoli; UV-C treatment; Heat treatment; Minimally processed vegetables**
132. Effect of hydrothermal treatment on the antioxidant properties of broccoli (*Brassica oleracea* var. *botrytis italica*) florets / Dziki, U.G.  
*Food Chemistry*, Volume 109, Issue 2, p. 393-401, 15 July 2008, ISSN 0308-8146  
**Keywords: Broccoli; Phenolic compounds; Antioxidant activity; Boiling**
133. Effects of pressure/temperature treatments on stability and activity of endogenous broccoli (*Brassica oleracea* L. cv. *italica*) myrosinase and on cell permeability/ van Eylen, D., Oey, I., Hendrickx, M., Van Loey, A.  
*Journal of Food Engineering*, Volume 89, Issue 2, p. 178-186, November 2008, ISSN 0260-8774  
**Keywords: Broccoli; Myrosinase; Stability; High pressure; Temperature treatment; Cell permeability; Activity**
134. Electron-beam irradiation of fresh broccoli heads (*Brassica oleracea* L. *italica*) / Gomes, C., Da Silva, P.P., Chimbombi, E., Kim, J., Castell, P.E., Moreira, R.G.  
*LWT - Food Science and Technology*, Volume 41, Issue 10, p. 1828-1833, December 2008, ISSN 0023-6438  
**Keywords: Fresh produce; Quality; Vitamin C; Chlorophyll; Shelf life**

135. High-pressure treatments induce folate polyglutamate profile changes in intact broccoli (*Brassica oleraceae* L. cv. Italica) tissue / Verlinde, P., Oey, I., Hendrickx, M., Van Loey, A.  
*Food Chemistry*, Volume 111, Issue 1, p. 220-229, 1 November 2008, ISSN 0308-8146  
**Keywords: Folate polyglutamates; Monoglutamates; Pteroylpolyglutamate hydrolase; High-pressure processing; Temperature; HPLC; Vegetables; Broccoli**
136. Modified-atmosphere packaging (MAP) does not affect the bioavailability of tocopherols and carotenoids from broccoli in humans: A cross-over study / Lorenzo, F.G., Alonso, B.O., Barbudo, C.H., Moreno, C.S., De Ancos, B., Martínez, J.A., Sacristán, B.P., Navarro, I.B.  
*Food Chemistry*, Volume 106, Issue 3, p. 1070-1076, 1 February 2008, ISSN 0308-8146  
**Keywords: Bioavailability; Food processing; Carotenoids; Vitamin E; Public health**
137. Prediction of ascorbic acid content in broccoli using a model equation of respiration / Techavuthiporn, C., Nakano, K., Maezawa, S.  
*Postharvest Biology and Technology*, Volume 47, Issue 3, p. 373-381, March 2008, ISSN 0925-5214  
**Keywords: Ascorbic acid; Respiration rate; Modelling; Broccoli**
138. Validation of irradiation of broccoli with a 10 MeV electron beam accelerator / Kim, J., Moreira, R.G., Perez, M.E.C.  
*Journal of Food Engineering*, Volume 86, Issue 4, p. 595-603, June 2008, ISSN 0260-8774  
**Keywords: Complex shape; Dose distribution; Monte Carlo simulation; CT-scan**
139. Water stress increases cytokinin biosynthesis and delays postharvest yellowing of broccoli florets / Zaicovski, C.B., Zimmerman, T., Nora, L., Nora, F.R., Adolfo, S.J., Rombaldi, C.V.  
*Postharvest Biology and Technology*, Volume 49, Issue 3, p. 436-439, September 2008, ISSN 0925-5214  
**Keywords: Soil moisture; Ethylene production; Respiration rate; Cytokinins**

## 2009 CABI

140. Carbohydrate status of sucrose-fed broccoli head during storage and the activity and gene expression of sucrose synthase / D.P. Baclayon, Matsui, T.  
*Annals of Tropical Research*, Volume 31, Issue 1, p. 34-46, 2009, ISSN 0116-0710  
**Keywords: BoSS; Enzymes; Fructose; Glucose; Postharvest life; Senescence; Sugar**

141. Chromatic changes in broccoli (*Brassica oleracea italica*) under modified atmospheres in perforated film packages/ Rai, D.R., Jha, S.N., Wanjari, O.D., Patil, R.T.  
*Food Science and Technology International*, Volume 15, Issue 4, p. 387-395, 2009, ISSN 1082-0132  
**Keywords: Broccoli; Storage; Modified atmosphere packaging; Perforated film**
142. Comparison of the antioxidant enzymes of broccoli after cold or heat shock treatment at different storage temperatures / Z. Zi, Nakano, K., Maezawa, S.  
*Postharvest Biology and Technology*, Volume 54, Issue 2, p. 101-105, 2009, ISSN 0925-5214  
**Keywords: Cold shock treatment; Heat shock treatment; Antioxidant enzymes**
143. Development of colour of broccoli heads as affected by controlled atmosphere storage and temperature / Schouten, R.E., Bing, Z.X., Verschoor, J.A., Otma, E.C., Tijskens, L.M.M., Van Kooten, L.M.M.  
*Postharvest Biology and Technology*, Volume 51, Issue 1, p. 27-35, 2009, ISSN 0925-5214  
**Keywords: Integrated modelling; Multi-response; Nondestructive; Chlorophyll; Gas exchange**
144. Effect of modified atmosphere packaging on visual quality and glucosinolates of broccoli florets / Guo, J.C., Jiong, X.C., Wei, J., Yuan, J., Yuan, G.F., Wang, B.L., Wang, Q.M.  
*Food Chemistry*, Volume 114, Issue 1, p. 28-37, 2009, ISSN 0308-8146  
**Keywords: Broccoli; Glucosinolates; Visual quality; Modified atmosphere packaging**
145. Effect of plastic permeability and exposure to light during storage on the quality of minimally processed broccoli and cauliflower / Olarte, C., Sanz, S., Echávarri, J.F., Ayala, F.  
*Food Science and Technology*, Volume 42, Issue 1, p. 402-411, 2009, ISSN 0023-6438  
**Keywords: Light; Broccoli; Cauliflower; Minimally processed vegetables; Packaging films; Quality**
146. Effect of UV-A and UV-B irradiation on broccoli (*Brassica oleracea* L. Italica group) floret yellowing during storage / Aiama-or, S., Yamauchi, N., Takino, S., Shigyo, M.  
*Postharvest Biology and Technology*, Volume 54, Issue 3, p. 177-179, 2009, ISSN 0925-5214  
**Keywords: UV-A; UV-B; Chlorophyll degradation; Broccoli florets**
147. Hot air treatment delays senescence and maintains quality of fresh-cut broccoli florets during refrigerated storage / Lemoine, M.L., Civello, P., Chaves, A., Martínez, G.  
*Food Science and Technology*, Volume 42, Issue 6, p. 1076-1081, 2009, ISSN 0023-6438  
**Keywords: Broccoli; Postharvest; Fresh cut; Heat treatment; Senescence**

## ScienceDirect

148. Acidification, crushing and thermal treatments can influence the profile and stability of folate poly- $\gamma$ -glutamates in broccoli (*Brassica oleracea* L. var. italica) / Munyaka, A.W., Oey, I., Verlinde, P., van Loey, A., Hendrickx, M.  
*Food Chemistry*, Volume 117, Issue 3, p. 568-575, 1 December 2009, ISSN 0308-8146,  
**Keywords: Acidification; Blanching; Broccoli; Folates; Crushing; Poly- $\gamma$ -glutamates**
149. Comparison of the antioxidant enzymes of broccoli after cold or heat shock treatment at different storage temperatures / Zi Zhang, Nakano, K., Maezawa, S.  
*Postharvest Biology and Technology*, Volume 54, Issue 2, p. 101-105, November 2009, ISSN 0925-5214  
**Keywords: Cold shock treatment; Heat shock treatment; Antioxidant enzymes**
150. Development of colour of broccoli heads as affected by controlled atmosphere storage and temperature / Rob E.S., Xiaobing, Z., Verschoor, J.A., Otma, E.C., Tijskens, L.M.M., van Kooten, O.  
*Postharvest Biology and Technology*, Volume 51, Issue 1, p. 27-35, January 2009, ISSN 0925-5214  
**Keywords: Integrated modelling; Multi-response; Nondestructive; Chlorophyll; Gas exchange**
151. Effect of modified atmosphere packaging on visual quality and glucosinolates of broccoli florets / Cheng, G.J., Chao, J.X., Jia, W., Jing, Y., Gao, F.Y., Bing, L.W., Qiao, M.W.  
*Food Chemistry*, Volume 114, Issue 1, p. 28-37, 1 May 2009, ISSN 0308-8146  
**Keywords: Broccoli; Glucosinolates; Visual quality; Modified atmosphere packaging**
152. Effect of plastic permeability and exposure to light during storage on the quality of minimally processed broccoli and cauliflower / Olarte, C., Sanz, S., Echávarri, J.F., Ayala, F.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, p. 402-411, 2009, ISSN 0023-6438  
**Keywords: Light; Broccoli; Cauliflower; Minimally processed vegetables; Packaging films; Quality**
153. Effect of UV-A and UV-B irradiation on broccoli (*Brassica oleracea* L. Italica Group) floret yellowing during storage / Aiamlar, S., Yamauchi, N., Takino, S., Shigyo, M.  
*Postharvest Biology and Technology*, Volume 54, Issue 3, p. 177-179, December 2009, ISSN 0925-5214  
**Keywords: UV-A; UV-B; Chlorophyll degradation; Broccoli florets**

154. Effects of postharvest ethanol vapor treatment on ethylene responsiveness in broccoli / Asoda, T., Terai, H., Kato, M., Suzuki, Y.  
*Postharvest Biology and Technology*, Volume 52, Issue 2, p. 216-220, May 2009, ISSN 0925-5214  
**Keywords: Broccoli; Ethanol; Ethylene responsiveness; Postharvest; Senescence**
155. Effects of postharvest ethanol vapor treatment on the ascorbate–glutathione cycle in broccoli florets / Mori, T., Terai, H., Yamauchi, N., Suzuki, Y.  
*Postharvest Biology and Technology*, Volume 52, Issue 1, p. 134-136, April 2009, ISSN 0925-5214  
**Keywords: Ascorbate–glutathione cycle; Broccoli; Ethanol; Senescence**
156. Hot air treatment delays senescence and maintains quality of fresh-cut broccoli florets during refrigerated storage / Lemoine, M.L., Civello, P., Chaves, A., Martínez, G.  
*LWT - Food Science and Technology*, Volume 42, Issue 6, p. 1076-1081, July 2009, ISSN 0023-6438  
**Keywords: Broccoli; Postharvest; Fresh cut; Heat treatment; Senescence**
157. Influence of pressure/temperature treatments on glucosinolate conversion in broccoli (*Brassica oleraceae* L. cv Italica) heads / van Eylen, D., Bellostas, N., Strobel, B.W., Oey, I., Hendrickx, M., van Loey, A., Sørensen, H., Sorensen, J.C.  
*Food Chemistry*, Volume 112, Issue 3, p. 646-653, 1 February 2009, ISSN 0308-8146  
**Keywords: Glucosinolates; High pressure; Broccoli; Scorbigen; Sulforaphane**
158. Modelling the level of the major glucosinolates in broccoli as affected by controlled atmosphere and temperature / Schouten, R.E., Zhang, X., Verkerk, R., Verschoor, J.A., Otma, E.C., Tijsskens, L.M.M., van Kooten, O.  
*Postharvest Biology and Technology*, Volume 53, Issues 1–2, p. 1-10, July–August 2009, ISSN 0925-5214  
**Keywords: HPLC; Gas exchange; Glucoraphanin; Multi-response; Biological variation**
159. Steam processed broccoli (*Brassica oleracea*) has higher antioxidant activity in chemical and cellular assay systems / Roy, M.K., Juneja, L.R., Isobe, S., Tsushida, T.  
*Food Chemistry*, Volume 114, Issue 1, p. 263-269, 1 May 2009, ISSN 0308-8146  
**Keywords: Broccoli; Steam process; Blanching; Antioxidant capacity; ORAC; DCFH-DA; PC-12 cells**

**2010  
CABI**

160. Delayed yellowing of broccoli florets by ethanol: some physio-biochemical changes during storage / Baclayon, D.P., Matsui, T.  
*Annals of Tropical Research*, Volume 32, Issue 1, p. 17-30, 2010, ISSN 0116-0710  
**Keywords: Broccoli florets; Ethanol; Physio-biochemical ; Storage**

161. Effects of packaging and postharvest treatments on the shelf-life quality of crown-cut broccoli / Reddy, Y.V.R., Marcy, J.E., Bratsch, A.D., Williams, R.C., Waterman, K.M. *Journal of Food Quality*, Volume 33, Issue 5, p. 599-611, 2010, ISSN 0146-9428  
**Keywords: Broccoli; Packaging treatments; Cooling; Storage; Shelf life**
162. Modelling the respiration rate of minimally processed broccoli (*Brassica rapa* var. *sylvestris*) for modified atmosphere package design / Torrieri, E.; N. Perone; S. Cavella; P. Masi;  
*International Journal of Food Science & Technology*, Volume 45, Issue 10, p. 2186-2193, 2010, ISSN 0950-5423  
**Keywords: Modified atmosphere packaging; Minimally processed broccoli; Respiration rate**

## ScienceDirect

163. Application of thermal inactivation of enzymes during vitamin C analysis to study the influence of acidification, crushing and blanching on vitamin C stability in Broccoli (*Brassica oleracea L* var. *italica*) / Munyaka, A.W., Oey, I., Van Loey, A., Hendrickx, M.  
*Food Chemistry*, Volume 120, Issue 2, 15 May 2010, p. 591-598, ISSN 0308-8146  
**Keywords: L-ascorbic acid; Dehydroascorbic acid; Broccoli; Brassica oleracea italica; Blanching; Acidification; Crushing; Enzymes**
164. Cooking method significantly effects glucosinolate content and sulforaphane production in broccoli florets / Jones, R.B., Frisina, C.L., Winkler, S., Imsic, M., Tomkins, R.B.  
*Food Chemistry*, Volume 123, Issue 2, p. 237-242, 15 November 2010, ISSN 0308-8146  
**Keywords: Brassica; Glucosinolates; Isothiocyanates; Cooking**
165. Effect of 1-methylcyclopropene on the expression of genes for in postharvest broccoli / Gang Ma, Zhang, L., Kato, M., Yamawaki, K., Asai, T., Nishikawa, F., Ikoma, Y., Matsumoto, H.  
*Postharvest Biology and Technology*, Volume 58, Issue 2, p. 121-128, November 2010, ISSN 0925-5214  
**Keywords: Broccoli; Postharvest; Ascorbate metabolism; 1-Methylcyclopropene**
166. Effects of postharvest ethanol vapor treatment on activities and gene expression of chlorophyll catabolic enzymes in broccoli florets / Fukasawa, A., Suzuki, Y., Terai, H., Yamauchi, N.  
*Postharvest Biology and Technology*, Volume 55, Issue 2, p. 97-102, February 2010, ISSN 0925-5214  
**Keywords: Broccoli; Chlorophyll catabolic enzyme; Ethanol; Postharvest; Yellowing**

167. Exposure to 1-methylcyclopropene (1-MCP) delays the effects of ethylene on fresh-cut broccoli raab (*Brassica rapa L.*) / Cefola, M., Amodio, M.L., Rinaldi, R., Vanadia, S., Colelli, G.  
*Postharvest Biology and Technology*, Volume 58, Issue 1, p. 29-35, October 2010, ISSN 0925-5214  
**Keywords: Brassica rapa; Yellowness; Senescence; Flowering; Marketability**
168. Impact of UV-B irradiation on chlorophyll degradation and chlorophyll-degrading enzyme activities in stored broccoli (*Brassica oleracea L. Italica Group*) florets / Aiamla, S., Kaewsuksaeng, S., Shigyo, M., Yamauchi, N.  
*Food Chemistry*, Volume 120, Issue 3, p. 645-651, 1 June 2010, ISSN 0308-8146  
**Keywords: Broccoli; Brassica oleracea italica; UV-B; Chl degradation; Chl derivatives; Chl-degrading enzymes**
169. Influence of combined hot air and UV-C treatment on the antioxidant system of minimally processed broccoli (*Brassica oleracea L. var. Italica*) / Lemoine, M.L., Chaves, A.R., Martínez, G.A.  
*LWT - Food Science and Technology*, Volume 43, Issue 9, p. 1313-1319, November 2010, ISSN 0023-6438  
**Keywords: Brassica oleracea italica; Antioxidant activity; Enzymes; Minimally processed broccoli; UV-C treatment; Heat treatment**

## 2011 CABI

170. Changes in post-harvest phytochemical qualities of broccoli floret during ambient and refrigerated storage / Nath, A., Bagchi, B., Misra, L.K., Deka, B.C.  
*Food Chemistry*, Volume 127, Issue 4, p. 1510-1514, 2011, ISSN 0308-8146  
**Keywords: Broccoli; Phytochemicals; Chlorophyll;  $\beta$ -carotenoids; Antioxidant activity; Postharvest storage**
171. Changes of antioxidant compounds of broccoli (*Brassica oleracea L. var. Italica*) during storage at low and high temperatures / Balouchi, Z., Peyvast, G.A., Ghasemnezhad, M., Saadatian, M.  
*Journal of Horticulture Biology and Environment*, Volume 2, Issue 2, p. 193-212, 2011, ISSN 2067-9874  
**Keywords: Broccoli; Antioxidant compounds; Peroxidase; Senescence; Temperature storage**



172. Degradation kinetics of colour, vitamin C and drip loss in frozen broccoli (*Brassica oleracea* L. ssp. *Italica*) during storage at isothermal and non-isothermal conditions / Gonçalves, E.M., Abreu, M., Brandão, T.R.S., Silva, C.L.M.  
*International Journal of Refrigeration*, Volume 34, Issue 8, p. 2136-2144, 2011, ISSN 0140-7007  
**Keywords: Broccoli; Freezing; Quality; Storage life; Modelling**
173. Effect of sulphuric fertilization on the shelf life of Broccoli packaged in protective atmosphere / Nicolais, V., Russo, M., Barbieri, G., Rastrelli, L.  
*Emirates Journal of Food and Agriculture*, Volume 23, Issue 6, p. 542-553, 2011, ISSN 2079-052X  
**Keywords: Chlorophyll; Glucosinolates; GC-MS; Nitrates; Organic volatile compounds; Shelf life; Sulphuric fertilization**
174. Fresh-cut broccoli florets shelf-life as affected by packaging film mass transport properties / Lucera, A., Costa, C., Mastromatteo, M., Conte, A., Nobile, M.A.  
*Journal of Food Engineering*, Volume 102, Issue 2, p. 122-129, 2011, ISSN 0260-8774  
**Keywords: Broccoli; Packaging films; Mass transport properties**
175. Impact of edible coatings and mild heat shocks on quality of minimally processed broccoli (*Brassica oleracea* L.) during refrigerated storage / Ansorena, M.R., Marcovich, N.E., Roura, S.I.  
*Postharvest Biology and Technology*, Volume 59, Issue 1, p. 53-63, 2011, ISSN 0925-5214  
**Keywords: Edible films; Heat treatment; Minimally processed broccoli; Quality**
176. Influence of controlled atmosphere storage on phytosterols in broccoli heads / Gajewski, M., Przybył, J.L., Bajer, M., Jarién, E.  
*Journal of Food Processing and Preservation*, Volume 35, Issue 5, p. 722-728, 2011, ISSN 0145-8892  
**Keywords: Broccoli; Controlled; Sterols**

## ProQuest

177. Effect of antimicrobial coatings on the radiosensitization of *Escherichia coli*, *Salmonella Typhimurium*, and *Listeria monocytogenes* in fresh broccoli / Takala, P.N., Vu, K.D., Salmiéri, S., Lacroix, M.  
*Journal of Food Protection*, Volume 74, Issue 7, p. 1065-1069, Jul 2011, ISSN 0362-028X  
**Keywords: Food contamination; Food poisoning; Food safety; Food quality; Vegetables; Antimicrobial coatings**

178. Effect of storage conditions on the sensory quality, colour and texture of fresh-cut minimally processed cabbage with the addition of ascorbic acid, citric acid and calcium chloride / Manolopoulou, E., Varzakas, T.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 956-963, Nov 2011, ISSN 2157944X  
**Keywords: Cabbages; Acids; Storage; Sensory perception**
179. Effect of sulphuric fertilization on the shelf life of broccoli packaged in protective atmosphere / Nicolais, V., Russo, M., Barbieri, G., Rastrelli, L.  
*Emirates Journal of Food and Agriculture*, Volume 23, Issue 6, p. 542-553, Dec 2011, ISSN 10211357  
**Keywords: Broccoli; Chlorophyll; Protective atmosphere; Packaging; Keeping quality**
180. Integration of an objective approach focused on the consumer to evaluate the quality of processed brussels sprouts / Olivera, D.F., Viña, S.Z., Ferreyra, R.M., Mugridge, A., Mascheroni, R.H., Chaves, A.R.,  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 1011-1017, Nov 2011, ISSN 2157944X  
**Keywords: Brussel sprouts; Consumer preferences; Vitamin C; Nutrition; Chlorophyll**

## ScienceDirect

181. Changes in post-harvest phytochemical qualities of broccoli florets during ambient and refrigerated storage / Nath, A., Bagchi, B., Misra, L.K., Deka, B.C.  
*Food Chemistry*, Volume 127, Issue 4, 15 August 2011, p. 1510-1514, ISSN 0308-8146  
**Keywords: Broccoli; Phytochemicals; Chlorophyll;  $\beta$ -carotenoids; Antioxidant activity; Postharvest storage**
182. Composition and antioxidant capacity of a novel beverage produced with green tea and minimally-processed byproducts of broccoli / Perles, R.D., Moreno, D.A., Carvajal, M., Viguera, C.G.  
*Innovative Food Science & Emerging Technologies*, Volume 12, Issue 3, July 2011, p. 361-368, ISSN 1466-8564  
**Keywords: Organic green tea; Brassica oleracea; Glucosinolates; Phenolic compounds; Beverages; Functional ingredient**

183. Degradation kinetics of colour, vitamin C and drip loss in frozen broccoli (*Brassica oleracea L. ssp. Italica*) during storage at isothermal and non-isothermal conditions / Gonçalves, E.M., Abreu, M., Brandão, T.R.S., Silva, C.L.M.  
*International Journal of Refrigeration*, Volume 34, Issue 8, December 2011, p. 2136-2144, ISSN 0140-7007  
**Keywords: Broccoli; Freezing; Storage; Quality; Storage life; Modelling; Surgélation; Entreposage; Modélisation**
184. Effect of postharvest water deficit stress on gene expression in heads of broccoli (*Brassica oleracea var. italica*) / Hunter, D.A., Pinkney, T.T., Watson, L.M., Trivellini, A., Janssen, B.J., Brummell, D.A., Heyes, J.A.  
*Postharvest Biology and Technology*, Volume 59, Issue 2, February 2011, p. 113-123, ISSN 0925-5214  
**Keywords: Cross-species microarray; Water stress; Osmotic stress; Postharvest senescence; Immature inflorescence**
185. Effect of processing on the content of glucobrassicin and its degradation products in broccoli and cauliflower / Sosińska, E., Obiedziński, M.W.  
*Food Control*, Volume 22, Issue 8, August 2011, p. 1348-1356, ISSN 0956-7135  
**Keywords: Ascorbigen; Indole-3-carbinole; Indole-3-acetonitrile; Fermentation; Pickling; Thermal treatment**
186. Effectiveness of chitosan edible coatings to improve microbiological and sensory quality of fresh cut broccoli / Moreira, M.R., Roura, S.I., Ponce, A.  
*LWT - Food Science and Technology*, Volume 44, Issue 10, December 2011, p. 2335-2341, ISSN 0023-6438  
**Keywords: Edible films; Minimally processed broccoli; Native microflora; Escherichia coli; Antimicrobial activity; Sensory quality**
187. End of day harvest delays postharvest senescence of broccoli florets / Hasperué, J.H., Chaves, A.R., Martínez, G.A.  
*Postharvest Biology and Technology*, Volume 59, Issue 1, January 2011, p. 64-70, ISSN 0925-5214  
**Keywords: Preharvest factors; Sugars; Senescence; Broccoli**
188. Evaluation of microwave technology in blanching of broccoli (*Brassica oleracea L. var Botrytis*) as a substitute for conventional blanching / Patricia, C.M., Bibiana, D.Y., José, P.M.  
*Procedia Food Science*, Volume 1, 2011, p. 426-432, ISSN 2211-601X  
**Keywords: Blanching; Microwave; Peroxide; Thermic process; Warm transfer**

189. Fresh-cut broccoli florets shelf-life as affected by packaging film mass transport properties / Lucera, A., Costa, C., Mastromatteo, M., Conte, A., Del Nobile, M.A. *Journal of Food Engineering*, Volume 102, Issue 2, January 2011, p. 122-129, ISSN 0260-8774  
**Keywords: Fresh-cut Broccoli florets; Mass transport properties; Shelf life; Packaging**
190. Impact of edible coatings and mild heat shocks on quality of minimally processed broccoli (*Brassica oleracea L.*) during refrigerated storage / Ansorena, M.R., Marcovich, N.E., Roura, S.I. *Postharvest Biology and Technology*, Volume 59, Issue 1, January 2011, p. 53-63, ISSN 0925-5214  
**Keywords: Edible films; Heat treatment; Minimally processed broccoli; Quality**
191. Influence of blanching and low temperature preservation strategies on antioxidant activity and phytochemical content of carrots, green beans and broccoli / Patras, A., Tiwari, B.K., Brunton, N.P. *LWT - Food Science and Technology*, Volume 44, Issue 1, January 2011, p. 299-306, ISSN 0023-6438  
**Keywords: Ascorbic acid; Phenols; Kinetics; Blanching; Freezing; Chill storage**
192. Low soil water content during growth contributes to preservation of green colour and bioactive compounds of cold-stored broccoli (*Brassica oleraceae L.*) florets / Cogo, S.L.P., Chaves, F.C., Schirmer, M.A., Zambiasi, R.C., Nora, L., Silva, J.A., Rombaldi, C.V. *Postharvest Biology and Technology*, Volume 60, Issue 2, May 2011, p. 158-163, ISSN 0925-5214  
**Keywords: Abiotic stress; Secondary metabolite; Antioxidant activity**
193. Moderate UV-C pretreatment as a quality enhancement tool in fresh-cut Bimi broccoli / Hernández, G.B.M., Gómez, P.A., Pradas, I., Artés, F., Hernández, F.A. *Postharvest Biology and Technology*, Volume 62, Issue 3, December 2011, p. 327-337, ISSN 0925-5214  
**Keywords: Brassica oleracea; Alboglabra group; Tenderstem; Minimal processing; Phenolics; Antioxidant capacity; Bioactive compounds**
194. Moisture distribution in broccoli: measurements by MRI hot air drying experiments / Jin, X., van der Sman, R.G.M., Gerkema, E., Vergeldt, F.J., van As, H., van Boxstel, A.J.B. *Procedia Food Science*, Volume 1, p. 640-646, 2011, ISSN 2211-601X  
**Keywords: MRI; Convective drying; Moisture profiles**

195. New strategy to assess the quality of broccoli (*Brassica oleracea L. italica*) based on enzymatic changes and volatile mass ion profile using Proton Transfer Reaction Mass Spectrometry (PTR-MS) / Raseetha, S., Heenan, S.P., Oey, I., Burrirt, D.J., Hamid, N. *Innovative Food Science & Emerging Technologies*, Volume 12, Issue 2, p. 197-205, April 2011, ISSN 1466-8564  
**Keywords: Peroxidase; Volatile; Enzymes; Broccoli; Ascorbate oxidase; PTR MS; PLS**
196. Towards a better understanding of the pectin structure–function relationship in broccoli during processing: Part I—macroscopic and molecular analyses / Christiaens, S., Van Buggenhout, S., Houben, K., Fraeye, I., Van Loey, A.M., Hendrickx, M.E. *Food Research International*, Volume 44, Issue 6, p. 1604-1612, July 2011, ISSN 0963-9969  
**Keywords: Broccoli; Texture; Pectin; Processing; High pressure; Degree of esterification**
197. Towards a better understanding of the pectin structure–function relationship in broccoli during processing: Part II — Analyses with anti-pectin antibodies / Christiaens, S., Van Buggenhout, S., Vandevenne, E., Jolie, R., Van Loey, A.M., Hendrickx, M.E. *Food Research International*, Volume 44, Issue 9, p. 2896-2906, November 2011, ISSN 0963-9969,  
**Keywords: Broccoli; Pectin; Processing; High pressure; Antipectin antibodies; Microscopy**

## 2012 CABI

198. Effects of ascorbic acid in delaying florets senescence of broccoli during post-harvest storage / Balouchi, Z., Peyvast, G.A., Ghasemnezhad, M., Dadi, M. *South-Western Journal of Horticulture Biology and Environment*, Volume 3, Issue 2, p. 167-183, 2012, ISSN 2067-9874  
**Keywords: Broccoli; Ascorbic acid; Shelf life; Lipid peroxidation; Senescence**
199. Postharvest quality response of broccoli florets to combined application of 1-methylcyclopropene and modified atmosphere packaging / Sabir, F.K. *Agricultural and Food Science*, Volume 21, Issue 4, p. 421-429, 2012, ISSN 1459-6067  
**Keywords: Broccoli; 1-MCP; MAP; Fruit quality; Storage**

## ProQuest

200. Post-harvesting; new research on post-harvesting from panasonic corporation summarized  
*Food Weekly Focus*, p. 3107, Nov 8, 2012, ISSN: 1944-1738  
**Keywords: Broccoli; Harvesting; Electrostatic atomization on ascorbate**

## ScienceDirect

201. Combination of light exposure and low temperature in preserving quality and extending shelf-life of fresh-cut broccoli (*Brassica oleracea L.*) / Zhan, L., Hu, J., Li, Y., Pang, L.  
*Postharvest Biology and Technology*, Volume 72, p. 76-81, October 2012, ISSN 0925-5214  
**Keywords: Broccoli; Fresh-cut; Light exposure; Shelf life; Quality**
202. Effect of bioaccessibility of phenolic compounds on in vitro anticancer activity of broccoli sprouts / Dziki, U.G., Jeżyna, M., Świeca, M., Dziki, D., Baraniak, B., Czyż, J.  
*Food Research International*, Volume 49, Issue 1, p. 469-476, November 2012, ISSN 0963-9969  
**Keywords: Broccoli sprouts; Anticancer activity; Antioxidant activity; Phenolic compounds; Bioaccessibility**
203. Effect of electrostatic atomization on ascorbate metabolism in postharvest broccoli / Gang, M., Lancui, Z., Masaya, K., Kazuki, Y., Tatsuo, A., Fumie, N., Yoshinori, I., Hikaru, M., Toshiyuki, Y., Toyoshi, K.  
*Postharvest Biology and Technology*, Volume 74, p. 19-25, December 2012, ISSN 0925-5214  
**Keywords: Ascorbate; Broccoli; Electrostatic atomization; Real-time PCR; Senescence**
204. Effect of variety and harvest time on respiration rate of broccoli florets and wild rocket salad using a novel O<sub>2</sub> sensor / Seefeldt, H.F., Løkke, M.M., Edelenbos, M.  
*Postharvest Biology and Technology*, Volume 69, p. 7-14, July 2012,ISSN 0925-5214  
**Keywords: Respiration rate; Biological variability; Brassica oleracea; Italica group; Diplotaxis tenuifolia; Dry matter content; O<sub>2</sub> sensor**
205. Effect of water content and temperature on glucosinolate degradation kinetics in broccoli (*Brassica oleracea* var. *italica*) / Oliviero, T., Verkerk, R., Dekker, M.  
*Food Chemistry*, Volume 132, Issue 4, 15 June 2012, p. 2037-2045, July 2012, ISSN 0308-8146  
**Keywords: Water content; Water activity; Temperature; Glucosinolates; Kinetic modeling**

206. Expression of a lipoxygenase encoding gene (BoLOX1) during postharvest senescence of broccoli / Lobato, M.E.G., Civello, P.M., Martínez, G.A.  
*Postharvest Biology and Technology*, Volume 64, Issue 1, p. 146-153, February 2012, ISSN 0925-5214  
**Keywords: Broccoli; Senescence; Postharvest; Lipoxygenase**
207. Induced changes in bioactive compounds of kailan-hybrid broccoli after innovative processing and storage / Hernández, G.B.M., Hernández, F.A., Gómez, P.A., Artés, F.  
*Journal of Functional Foods*, Volume 5, Issue 1, p. 133-143, 18 October 2012, ISSN 1756-4646  
**Keywords: Brassica oleracea; Kailan hybrid; Alboglabra group; Myrosinase; Glucosinolates; Sulforaphane; Vitamin C; Lutein**
208. Influence of processing on the pectin structure–function relationship in broccoli purée / Christiaens, S., Mbong, V.B., Van Buggenhout, S., David, C.C., Hofkens, J., Van Loey, A.M., Hendrickx, M.E.  
*Innovative Food Science & Emerging Technologies*, Volume 15, p. 57-65, July 2012, ISSN 1466-8564  
**Keywords: Broccoli; Puree; Pectin; Syneresis; Processing; Antipectin antibodies**
209. Influence of the chemical structure on the thermal degradation of the glucosinolates in broccoli sprouts / Hanschen, F.S., Rohn, S., Mewis, I., Schreiner, M., Kroh, L.W.  
*Food Chemistry*, Volume 130, Issue 1, p. 1-8, 1 January 2012, ISSN 0308-8146  
**Keywords: Glucosinolates; Thermal degradation; pH influence; Structural influence; Roasting; Cooking; Broccoli sprouts**
210. Optimization of a process to obtain selenium-enriched freeze-dried broccoli with high antioxidant properties / Mahn, A., Zamorano, M., Barrientos, H., Reyes, A.  
*LWT - Food Science and Technology*, Volume 47, Issue 2, p. 267-273, July 2012, ISSN 0023-6438  
**Keywords: Broccoli; Selenium; Antiradical power; Total polyphenols; Freeze drying**
211. Pheophytinase activity and gene expression of chlorophyll-degrading enzymes relating to UV-B treatment in postharvest broccoli (*Brassica oleracea* L. italica Group) florets / Aiama-or, S., Nakajima, T., Shigyo, M., Yamauchi, N.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 60-66, January 2012, ISSN 0925-5214  
**Keywords: Chlorophyll degradation; Chlorophyllase; Pheophytinase; Gene expression; UV-B treatment**

**2013**  
**ScienceDirect**

212. Altered commercial controlled atmosphere storage conditions for 'Parhenon' broccoli plants (*Brassica oleracea* L. var. italica). Influence on the outer quality parameters and on the health-promoting compounds / León, M.F.F., León, A.M.F., Lozano, M., Ayuso, M.C., Gómez, D.G.  
*LWT - Food Science and Technology*, Volume 50, Issue 2, p. 665-672, March 2013, ISSN 0023-6438  
**Keywords: Broccoli; Controlled atmosphere; Health promoting compounds; HPLC-MS/MS**
213. Antimicrobial efficiency of chitosan coating enriched with bioactive compounds to improve the safety of fresh cut broccoli / M.V. Alvarez, A.G. Ponce, María del, R.M.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 78-87, January 2013, ISSN 0023-6438  
**Keywords: Biopreservation; Edible films; Pathogens; Minimally processed vegetables; Native microflora**
214. Combination of electrolysed water, UV-C and superatmospheric O<sub>2</sub> packaging for improving fresh-cut broccoli quality / Hernández, G.B.M., Hernández, F.A., Gómez, P.A., Formica, A.C., Artés, F.  
*Postharvest Biology and Technology*, Volume 76, p. 125-134, February 2013, ISSN 0925-5214  
**Keywords: Brassica oleracea; Alboglabra group; Minimally processed; Kailan hybrid; Electrolyte leakage; Antioxidant enzymes; Phenolics; Fatty acids**
215. Comparative behaviour between kailan-hybrid and conventional fresh-cut broccoli throughout shelf-life / Hernández, G.B.M., Hernández, F.A., Gómez, P.A., Artés, F.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 298-305, January 2013, ISSN 0023-6438  
**Keywords: Brassica oleracea; Kailan hybrid; Tenderstem; Minimally processed; Postharvest physiology; Quality**
216. Different postharvest strategies to preserve broccoli quality during storage and shelf life: Controlled atmosphere and 1-MCP / León, M.F.F., León, A.M.F., Lozano, M., Ayuso, M.C., Gómez, D.G.  
*Food Chemistry*, Volume 138, Issue 1, p. 564-573, 1 May 2013, ISSN 0308-8146  
**Keywords: Overall appearance; Physicochemical parameters; Health promoting compounds; Phenols; Glucosinolates; HPLC-MS/MS**



217. Induced changes in bioactive compounds of kailan-hybrid broccoli after innovative processing and storage / Hernández, G.B.M., Hernández, F.A., Gómez, P.A., Artés, F. *Journal of Functional Foods*, Volume 5, Issue 1, p. 133-143, January 2013, ISSN 1756-4646  
**Keywords: Brassica oleracea; Alboglabra group; Myrosinase; Glucosinolates; Sulforaphane; Vitamin C; Lutein**
218. Potential to intensify sulforaphane formation in cooked broccoli (*Brassica oleracea* var. *italica*) using mustard seeds (*Sinapis alba*) / Ghawi, S.K., Methven, L., Niranjana, K. *Food Chemistry*, Volume 138, Issues 2–3, p. 1734-1741, 15 May–1 June 2013, ISSN 0308-8146  
**Keywords: Broccoli; Sulforaphane; Mustard seeds; Myrosinase; Processing**
219. Quality changes after vacuum-based and conventional industrial cooking of kailan-hybrid broccoli throughout retail cold storage / Hernández, G.B.M., Hernández, F.A., Gómez, P.A., Artés, F. *LWT - Food Science and Technology*, Volume 50, Issue 2, p. 707-714, March 2013, ISSN 0023-6438  
**Keywords: Brassica oleracea; Kailan hybrid; Bioactive compounds; Phenolics; Total antioxidant capacity; Stem softening**
220. Research approach for quality based design of healthy foods: dried broccoli as a case study / Oliviero, T., Verkerk, R., Dekker, M. *Trends in Food Science & Technology*, 30 January 2013, ISSN 0924-2244,  
**Keywords: Quality; Health; Drying; Blanching; Broccoli; Glucosinolates; Myrosinase; Isothiocyanates**
221. Retention of quality and functional values of broccoli ‘Parthenon’ stored in modified atmosphere packaging / León, M.F.F., León, A.M.F., Lozano, M., Ayuso, M.C., Amodio, M.L., Colelli, G., Gómez, D.G. *Food Control*, Volume 31, Issue 2, p. 302-313, June 2013, ISSN 0956-7135  
**Keywords: Respiration rate; Health promoting compounds; Antioxidant activity; Quality parameters**
222. Understanding the degradation of ascorbic acid and glutathione in relation to the levels of oxidative stress biomarkers in broccoli (*Brassica oleracea* L. *italica* cv. Bellstar) during storage and mechanical processing / S. Raseetha, S.Y. Leong, D.J. Burritt, I. Oey *Food Chemistry*, Volume 138, Issues 2–3, p. 1360-1369, 15 May–1 June 2013, ISSN 0308-8146  
**Keywords: Broccoli; Ascorbic acid; Glutathione; Storage; Oxidative stress**

**Buncis  
2009  
ScienceDirect**

223. Effect of various processing techniques on digestibility of starch in red kidney bean (*Phaseolus vulgaris*) and two varieties of peas (*Pisum sativum*) / Eyaru, R., Shrestha, A.K., Arcot, J.  
*Food Research International*, Volume 42, Issue 8, p. 956-962, October 2009, ISSN 0963-9969  
**Keywords: Phaseolus vulgaris; Pisum sativum; Processing; Digestibility; Resistant starch**

**2010**

224. Hydration properties of different varieties of Canadian field peas (*Pisum sativum*) from different locations / An, D., Arntfield, S.D., Beta, T., Cenkowski, S.  
*Food Research International*, Volume 43, Issue 2, p. 520-525, March 2010, ISSN 0963-9969  
**Keywords: Pisum sativum; Pea; Hydration property; Stone seed; Processing**

**2011  
ProQuest**

225. Physical properties and fatty acid profiles of oils from black, kidney, Great Northern, and pinto beans / Sutivisedsak, N., Moser, B.R., Sharma, B.K., Evangelista, R.L. Cheng, H.N., Lesch, W.C., Tangsrud, R.R., Biswas, A.  
*Journal of the American Oil Chemists' Society*, Volume 88, Issue 2, p. 193-200, Feb 2011, ISSN 0003021X  
**Keywords: Beans; Vegetable oils; Temperature; Physical properties; Molecular weight; Antioxidants**

## 2012 ProQuest

226. Effect of cooking methods on selected physicochemical and nutritional properties of barlotto bean, chickpea, faba bean, and white kidney bean / Güzel, D., Sayar, S. *Journal of Food Science and Technology*, Volume 49, Issue 1, p. 89-95, Feb 2012, ISSN 00221155  
**Keywords: Cooking; Carbohydrates; Nutrition; Legumes; Food science**
227. Prospects of UV radiation for application in postharvest technology / Ribeiro, C., Canada, J., Alvarenga, B. *Emirates Journal of Food and Agriculture*, Volume 24, Issue 6, p. 586-597, Dec 2012  
**Keywords: Kidney bean; Ultra violet; Radiation; Postharvest technology**

## ScienceDirect

228. Total phenolic content and antioxidant activity of two different solvent extracts from raw and processed legumes, *Cicer arietinum L.* and *Pisum sativum L.* / Nithiyantham, S., Selvakumar, S., Siddhuraju, P. *Journal of Food Composition and Analysis*, Volume 27, Issue 1, p. 52-60, August 2012, ISSN 0889-1575  
**Keywords: Antioxidant activity; Cicer arietinum; Pisum sativum; Phenolics; Tannins; Processing; Free radical scavenging capacity; Metal chelating; Antinutrient; Food composition**

## Cabai 2008 ProQuest

229. Changes in antioxidants and taste-related compounds content during cold storage of fresh-cut red sweet peppers / Raffo, A., Baiamonte, I., Paoletti, F. *European Food Research and Technology*, Volume 226, Issue 5, p. 1167-1174, Mar 2008, ISSN 1438-2377  
**Keywords: Sweet pepper; Antioxidants; Storage; Food science; Flavour**

## ScienceDirect

230. Drying kinetics and quality changes during drying of red pepper/ Di Scala, K., Crapiste, G.  
*LWT - Food Science and Technology*, Volume 41, Issue 5, p. 789-795, June 2008, ISSN 0023-6438  
**Keywords: Drying; Sorption isotherms; Ascorbic acid; Carotenoids; Red pepper**
231. Effect of air drying temperature on the quality of rehydrated dried red bell pepper (var. Lamuyo) / Gálvez, A.V., Mondaca, R.L., Sáinz, C.B., Fito, P.P., Andrés, A.  
*Journal of Food Engineering*, Volume 85, Issue 1, p. 42-50, March 2008, ISSN 0260-8774  
**Keywords: Red pepper; Air drying; Rehydration; Quality; Microstructure**
232. Effect of thermal blanching and of high pressure treatments on sweet green and red bell pepper fruits (*Capsicum annuum L.*) / Castro, S.M., Saraiva, J.A., da Silva, L.J.A., Delgadillo, I., Van Loey, A., Smout, C., Hendrickx, M.  
*Food Chemistry*, Volume 107, Issue 4, p. 1436-1449, 15 April 2008, ISSN 0308-8146  
**Keywords: Bell pepper; Capsicum annuum; Pressure; Blanching; Freezing; Vitamin C; Texture; Enzymes**

## 2009

## ProQuest

233. Control of foodborne pathogens and soft-rot bacteria on bell pepper by three strains of bacterial antagonists[dagger] / Liao, C.H.  
*Journal of Food Protection*, Volume 72, Issue 1, p. 85-92, Jan 2009, ISSN 0362-028X  
**Keywords: Bacteria; Pathogens; Food safety; Food contamination; Food poisoning**
234. Regulation and function of the pepper pectin methylesterase inhibitor (CaPMEI1) gene promoter in defense and ethylene and methyl jasmonate signaling in plants / An, S.H., Choi, H.W., Hong, J.K., Hwang, B.K.  
*Planta*, Volume 230, Issue 6, p. 1223-1237, Nov 2009, ISSN 0032-0935  
**Keywords: Acetates; Cyclopentanes; Ethylene; Oxylipins; Plant growth regulators; Plant proteins; Recombinant fusion proteins; Methyl jasmonate; Ethylene; Carboxylic ester hydrolases; Pectinesterase; Glucuronidase**

## ScienceDirect

235. Effect of air-drying temperature on physico-chemical properties, antioxidant capacity, colour and total phenolic content of red pepper (*Capsicum annuum*, L. var. Hungarian) / Gálvez, A.V., Di Scala, K., Rodríguez, K., Mondaca, R.L., Miranda, M., López, J., Won, M.P.  
*Food Chemistry*, Volume 117, Issue 4, p. 647-653, 15 December 2009, ISSN 0308-8146  
**Keywords: Peppers; Air drying; Antioxidant properties; Total phenolic content; Radical scavenging activity; Vitamin C**
236. Use of autochthonous starters to ferment red and yellow peppers (*Capsicum annum L.*) to be stored at room temperature / Di Cagno, R., Surico, R.F., Minervini, G., De Angelis, M., Rizzello, C.G., Gobbetti, M.  
*International Journal of Food Microbiology*, Volume 130, Issue 2, p. 108-116, 31 March 2009, ISSN 0168-1605  
**Keywords: Peppers; Autochthonous lactic acid bacteria; Shelf life**

2010

## ScienceDirect

237. Antioxidant and nutritive constituents during sweet pepper development and ripening are enhanced by nitrophenolate treatments / Serrano, M., Zapata, P.J., Castillo, S., Guillén, F., Romero, D.M., Valero, D.  
*Chemistry*, Volume 118, Issue 3, p. 497-503, 1 February 2010, ISSN 0308-8146  
**Keywords: Capsicum annuum; Sweet pepper; Total antioxidant activity; Polyphenols; Sugars; Organic acids; Nitrophenolates**
238. Comparative effect of steaming and irradiation on the physicochemical and microbiological properties of dried red pepper (*Capsicum annum L.*) / Rico, C.W., Kim, G.R., Ahn, J.J., Kim, H.K., Furuta, M., Kwon, J.H.  
*Food Chemistry*, Volume 119, Issue 3, p. 1012-1016, 1 April 2010, ISSN 0308-8146  
**Keywords: Red pepper; Steaming; Irradiation; Storage; Quality**
239. Food Effect of cooking on the capsaicinoids and phenolics contents of Mexican peppers / José de Jesús Ornelas-Paz, Burrola, J.M.M., Cruz, S.R., Rodríguez, V.S., Junquera, V.I., Olivas, G.I., Martínez, J.D.P.  
*Food Chemistry*, Volume 119, Issue 4, p. 1619-1625, 15 April 2010, ISSN 0308-8146  
**Keywords: Capsicum; Antioxidants; Healthy vegetables; Pungency; Heat treatment**

240. Physicochemical and microbiological characterization of the dehydration processing of red pepper fruits for paprika production / Guerrero, L.G., Gálvez, A.P., Aranda, E., Mosquera, M.I.M., Méndez, D.H.  
*LWT - Food Science and Technology*, Volume 43, Issue 9, p. 1359-1367, November 2010, ISSN 0023-6438  
**Keywords: Dehydration; Drying; Capsicum annuum; Red pepper; Paprika; Carotenoids; Pectin; Polygalacturonase; Microbial flora**
241. Reduction in the pH of vegetables by vacuum impregnation: A study on pepper / Derossi, A., De Pilli, T., Severini, C.  
*Journal of Food Engineering*, Volume 99, Issue 1, p. 9-15, July 2010, ISSN 0260-8774  
**Keywords: Vacuum impregnation; Acidification; Vegetables; Lactic acid**
242. Response surface methodology for protein extraction optimization of red pepper seed (*Capsicum frutescens*) / Durmus, E.F., Evranuz, O.  
*LWT - Food Science and Technology*, Volume 43, Issue 2, p. 226-231, March 2010, ISSN 0023-6438  
**Keywords: Response surface methodology; Red pepper seeds; Optimization; Protein extraction**

## 2011 ProQuest

243. Phytochemical evaluation of wild and cultivated pepper (*Capsicum annuum* L. and *C. pubescens* Ruiz & Pav.) from Oaxaca, Mexico / Vera-Guzmán, A.M., Chávez-Servia, J.L., Carrillo-Rodríguez, J.C., López, M.G.  
*Chilean Journal of Agricultural Research*, Volume 71, Issue 4, p. 578-585, Oct-Dec 2011, ISSN 07185820  
**Keywords: Peppers; Capsicum annuum; Agricultural production; Vitamin C; Colour**

## ScienceDirect

244. Blanching peppers using microwaves / Alvarez, L.D., Flores, E.J., González, K., Martínez, R., Parada, L.  
*Procedia Food Science*, Volume 1, p. 178-183, 2011, ISSN 2211-601X  
**Keywords: Blanching; Microwave; Antioxidants; Jalapeño pepper; Phenolics**

245. Dehydration of red bell-pepper (*Capsicum annuum L.*): Change in drying behavior, colour and antioxidant content / Arslan, D., Özcan, M.M.  
*Food and Bioproducts Processing*, Volume 89, Issue 4, p. 504-513, October 2011, ISSN 0960-3085  
**Keywords: Drying; Red bell-pepper; Colour; Antioxidant properties**
246. Effect of postharvest treatments and storage temperatures on the quality and shelf life of sweet pepper (*Capsicum annuum L.*) / Rao, T.V.R., Gol, N.B., Shah, K.K.  
*Scientia Horticulturae*, Volume 132, p. 18-26, 5 December 2011, ISSN 0304-4238  
**Keywords: Capsicum annuum; Enzymes; Postharvest; Storage; Treatment**
247. Effects of chitosan coating enriched with cinnamon oil on qualitative properties of sweet pepper (*Capsicum annuum L.*) / Yage, X., Xihong, L., Qinglian, X., Juan, Y., Yaqing, L., Yao, T.  
*Food Chemistry*, Volume 124, Issue 4, p. 1443-1450, 15 February 2011, ISSN 0308-8146  
**Keywords: Chitosan; Cinnamon oil; Sweet pepper; Atomic force microscopy (AFM) images**
248. Variation in phenolic compounds, ascorbic acid and antioxidant activity of five coloured bell pepper (*Capsicum annuum*) fruits at two different harvest times/ Ghasemnezhad, M., Sherafati, M., Payvast, G.A.  
*Journal of Functional Foods*, Volume 3, Issue 1, p. 44-49, January 2011, ISSN 1756-4646  
**Keywords: Capsicum annuum; Harvest time; Phenolic compounds; Antioxidant capacity**

## 2012 ProQuest

249. Active modified atmosphere packaging of fresh-cut bell peppers: effect on quality indices / Manolopoulou, H., Lambrinos, G., Xanthopoulos, G.  
*Journal of Food Research*, Volume 1, Issue 3, p. 148-158, Aug 2012, ISSN 19270887  
**Keywords: Bell pepper; Product quality; Storage; Temperature; Food packaging**
250. Antioxidant activity of peppers (*Capsicum annuum L.*) extracts and characterization of their phenolic constituents / Medina, J.L.Á., Molina, Q.D.M.A., Toro, S.C.L., González, A.G.A., Gámez, M.N.  
*Interciencia*, Volume 37, Issue 8, p. 588-593, Aug 2012, ISSN: 03781844  
**Keywords: Peppers; Extracts; Phenolics; Antioxidant activity**

251. Effect of storage temperature on survival and growth of foodborne pathogens on whole, damaged, and internally inoculated jalapeños (*Capsicum annuum* var. *annuum*) / Huff, K., Boyer, R., Denbow, C., O'Keefe, S., Williams, R.  
*Journal of Food Protection*, Volume 75, Issue 2, p. 382-383, Feb 2012, ISSN 0362-028X  
**Keywords: Food contamination; Food poisoning; Food safety; Storage; Temperature effects; Bacteria; Capsicum annuum**
252. Effects of 1-methylcyclopropene and modified atmosphere packaging on the antioxidant capacity in pepper "kulai" during low-temperature storage / Tan, C.K., Ali, Z.M., Ismail, I., Zainal, Z.  
*The Scientific World Journal* (2012).  
**Keywords: Peppers; Modified atmosphere packaging; Antioxidants; Temperature; Fruits; Vitamin C**
253. Oxidative degradation and detoxification of chlorpyrifos by ultrasonic and ozone treatments / Pengphol, S., Uthaibutra, J., Arquero, O., Nomura, N., Whangchai, K.  
*Journal of Agricultural Science*, Volume 4, Issue 8, p. 164-172, Aug 2012, ISSN: 19169752  
**Keywords: Pesticides; Temperature; Toxicity; Decomposition; Ultrasonic transducers**

## ScienceDirect

254. Development of cold quarantine protocols to arrest the development of the Mediterranean fruit fly (*Ceratitis capitata*) in pepper (*Capsicum annuum* L.) fruit after harvest / Fallik, E., Perzelan, Y., Tuvia, S.A., Lavy, E.N., Nestel, D.  
*Postharvest Biology and Technology*, Volume 70, p. 7-12, August 2012, ISSN 0925-5214  
**Keywords: Cold treatment; Immature stages; Medfly; Peppers; Postharvest**
255. Diterpene glycosides from Korean fermented red pepper paste (gochujang) and their origin / Heung, C.S., Jeong, Y.C., Ki, H.L., Young, K.M., Jong, H.J., Hyoung, J.L., Keun, H.P., Jae, H.M.  
*Food Chemistry*, Volume 130, Issue 4, p. 1024-1030, 15 February 2012, ISSN 0308-8146  
**Keywords: Gochujang; Acycle diterpene glycoside; Geranylinalool derivative; Capsianoside; Capsianoside**



256. Polyphenol oxidase, total phenolics and ascorbic acid changes during storage of minimally processed 'California Wonder' and 'Quadrato d'Asti' sweet peppers / Barbagallo, R.N., Chisari, M., Patané, C.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 192-196, December 2012, ISSN 0023-6438  
**Keywords: Fresh-cut vegetables; Pepper bells; Ordinary atmosphere packaging; Browning; Physicochemical properties**
257. Supercritical fluid extraction and microencapsulation of bioactive compounds from red pepper (*Capsicum annum* L.) by-products/ Hualde, A.R., Cunchillos, A.I.Y., Ferrero, C.G., Abajo, M.J.S., Navarro, C.J.G.  
*Food Chemistry*, Volume 133, Issue 3, p. 1045-1049, 1 August 2012, ISSN 0308-8146  
**Keywords: Red pepper; Byproducts; Supercritical fluid extraction (SFE); Microencapsulation; Gum arabic**
258. Taste of sweet pepper: Volatile and non-volatile chemical composition of fresh sweet pepper (*Capsicum annuum*) in relation to sensory evaluation of taste / Eggink, P.M., Maliepaard, C., Tikunov, Y., Haanstra, J.P.W., Bovy, A.G., Visser, R.G.F.  
*Food Chemistry*, Volume 132, Issue 1, p. 301-310, 1 May 2012, ISSN 0308-8146  
**Keywords: Sensory evaluation; Biochemical profiling; Metabolomics; SPME-GC-MS; Multivariate analysis; Random forest**

## 2013 ScienceDirect

259. Development of a new fresh-like product from 'Lamuyo' red bell peppers using hurdle technology / Horvitz, S., Cantalejo, M.J.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 357-360, January 2013, ISSN 0023-6438,  
**Keywords: Bell pepper; Partial dehydration; Combined methods; MAP**
260. Impact of non-thermal technologies and sanitizer solutions on microbial load reduction and quality factor retention of frozen red bell peppers / Alexandre, E.M.C., Brandão, T.R.S., Silva, C.L.M.  
*Innovative Food Science & Emerging Technologies*, Volume 17, p. 99-105, January 2013, ISSN 1466-8564  
**Keywords: Red bell-pepper; Microbial loads; Quality; Sanitizer solutions; Emerging technologies; Frozen storage**

261. Increase in gloss of coated red peppers by different brushing procedures / Marmur, T., Elkind, Y., Nussinovitch, A.  
*LWT - Food Science and Technology*, Volume 51, Issue 2, p. 531-536, May 2013, ISSN 0023-6438  
**Keywords: Peppers; Hydrocolloid-wax; Brushing; Gloss; Horse hair**

**Kacang Jogo**  
**2008**  
**ScienceDirect**

262. Extrusion of a hard-to-cook bean (*Phaseolus vulgaris L.*) and quality protein maize (*Zea mays L.*) flour blend / Ruiz, J.R., Ayala, A.M., Drago, S., González, R., Ancona, D.B., Guerrero, L.C.  
*LWT - Food Science and Technology*, Volume 41, Issue 10, p. 1799-1807, December 2008, ISSN 0023-6438  
**Keywords: Extrusion; QPM; Hard-to-cook beans; Nutritional changes**
263. Polyphenols and antioxidant capacity of *Phaseolus vulgaris* stored under extreme conditions and processed / Granito, M., Paolini, M., Pérez, S.  
*LWT - Food Science and Technology*, Volume 41, Issue 6, p. 994-999, July 2008, ISSN 0023-6438  
**Keywords: Phaseolus vulgaris; Antioxidant capacity; Polyphenols; Storage; Fermentation**

**2012**  
**ScienceDirect**

264. Hurdle technology for shelf stable minimally processed French beans (*Phaseolus vulgaris*): A response surface methodology approach / Gupta, S., Chatterjee, S., Vaishnav, J., Kumar, V., Variyar, P.S., Sharma, A.  
*LWT - Food Science and Technology*, Volume 48, Issue 2, p. 182-189, October 2012, ISSN 0023-6438  
**Keywords: French beans; Phaseolus vulgaris; Hurdle technology; Citric acid treatment;  $\gamma$ -irradiation; Modified atmosphere packaging; Response surface methodology**
265. Impact of cooking methods on folates, ascorbic acid and lutein in green beans (*Phaseolus vulgaris*) and spinach (*Spinacea oleracea*) / Delchier, N., Reich, M., Renard, C.M.G.C.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 197-201, December 2012, ISSN 0023-6438  
**Keywords: Vitamin C; Carotenoids; Freezing; Canning; Steaming**

**2013**  
**ScienceDirect**

266. Effect of cooking and germination on phenolic composition and biological properties of dark beans (*Phaseolus vulgaris L.*) / López, A., El-Naggar, T., Dueñas, M., Ortega, T., Estrella, I., Hernández, T., Serranillos, M.P.G., Palomino, O.M., Carretero, M.E.  
*Food Chemistry*, Volume 138, Issue 1, p. 547-555, 1 May 2013, ISSN 0308-8146  
**Keywords: Dark beans; Phenolics; Boiling; Germination; Astrocytes; Neuroprotective; Anticancer**
267. Fabrication and characterization of kidney bean (*Phaseolus vulgaris L.*) protein isolate–chitosan composite films at acidic Ph / Wen, M., Chuan-He, T., Xiao, Q.Y., Shou, W.Y.  
*Food Hydrocolloids*, Volume 31, Issue 2, p. 237-247, June 2013, ISSN 0268-005X  
**Keywords: Edible films; Kidney bean; Protein isolate; Chitosan; Microstructure; Surface hydrophobicity; Surface free energy**
268. Functional properties of flour from low-temperature extruded navy and pinto beans (*Phaseolus vulgaris L.*) / Siddiq, M., Kelkar, S., Harte, J.B., Dolan, K.D., Nyomba, G.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 215-219, January 2013, ISSN 0023-6438  
**Keywords: Beans; Extruded flour; Viscosity; Water absorption; Cookie sensory**

**Kembang kol**  
**2008**  
**DOAJ**

269. Changes in some physio-biochemical characteristics in lettuce during storage at low temperature/ Dulal, C., Toshiyuki, M., Haruo, S., Yusuke, K.  
*Journal of Biological Sciences*, Volume 8, Issue 2, p. 398-403, 2008, ISSN/EISSN 17273048 18125719  
**Keywords: Lettuce; Glutamine synthetase; Glutamate dehydrogenase; Ammonia; Storage**
270. Study regarding nitrate and nitrite content in cauliflower, from agro-food markets in Timisoara / Alina, B., Lazureanu, A., Alexa, E., Negrea, M.  
*Analele Universitatii din Oradea, Fascicula Biologie* Volume: TOM XV p. 22-23, 2008 ISSN/EISSN 12245119 18447589  
**Keywords: Cauliflower; Nitrates; Nitrite**

## ScienceDirect

271. Cauliflower byproducts as a new source of dietary fibre, antioxidants and proteins in cereal based ready-to-eat expanded snacks / Stojceska, V., Ainsworth, P., Plunkett, A., İbanođlu, E., İbanođlu, S.  
*Journal of Food Engineering*, Volume 87, Issue 4, p. 554-563, August 2008, ISSN 0260-8774  
**Keywords: Cauliflower; Byproducts; Extrusion technology; Ready-to eat snacks**

## TEAL

272. Anthocyanin composition of cauliflower (*Brassica oleracea* L. var. botrytis) and cabbage (*B. oleracea* L. var. capitata) and its stability in relation to thermal treatments / Lo-Scalzo R., Genna, A., Branca, F., Chedin, M., Chassaigine, H.  
*Food Chemistry*, Volume 107, Issue 1, p. 136-144, 2008, ISSN 0308-8146  
**Keywords: Cauliflower; Brassica oleracea botrytis; Brassica oleracea capitata; Thermal treatment; Stability; Anthocyanins**

## 2009

## DOAJ

273. Effect of gypsum application on enzymatic browning activity in lettuce / C. Prasit, Chutichudet, B., Kaewsit  
*Pakistan Journal of Biological Sciences*, Volume 12, Issue 18, p. 1226-1236, 2009, ISSN/EISSN 10288880 18125735  
**Keywords: Gypsum; Enzymic browning; PPO activity; Lettuce**
274. Neural network modeling to predict shelf life of greenhouse lettuce / Lin, W.C., Glen S.B.  
*Algorithms*, Volume 2, Issue 2, p. 623-637, DOI: 10.3390/a2020623, 2009, ISSN/EISSN: 19994893  
**Keywords: Lactuca sativa; Postharvest; Storage temperature; Neural network ; Simple NN; 2-stage NN; Regression analysis**

## ProQuest

275. Influence of postharvest treatment and type of packaging on quality and storage ability of cauliflower (*Brassica oleracea* L. var. botrytis) / Grzegorzewska, M., Kosson, R.  
*Vegetable Crops Research Bulletin*, Volume 71, p. 133, 2009, ISSN 15069427  
**Keywords: Cauliflower; Postharvest treatment; Packaging; Quality; Storage**

## ScienceDirect

276. Effect of plastic permeability and exposure to light during storage on the quality of minimally processed broccoli and cauliflower / Olarte, C., Sanz, S., Federico, E.J., Ayala, F.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, p. 402-411, 2009, ISSN 0023-6438  
**Keywords: Light; Broccoli; Cauliflower; Minimally processed vegetables; Packaging films; Quality**
277. Glucosinolates, l-ascorbic acid, total phenols, anthocyanins, antioxidant capacities and colour in cauliflower (*Brassica oleracea L. ssp. botrytis*); effects of long-term freezer storage / Volden, J., Bengtsson, G.B., Tr Wicklund  
*Food Chemistry*, Volume 112, Issue 4, p. 967-976, 15 February 2009, ISSN 0308-8146  
**Keywords: Cauliflower; Blanching; Freezing; Glucosinolates; Polyphenols; Anthocyanins; L-ascorbic acid; FRAP; ORAC; CIELAB**
278. Processing (blanching, boiling, steaming) effects on the content of glucosinolates and antioxidant-related parameters in cauliflower (*Brassica oleracea L. ssp. botrytis*) / Volden, J., Borge, G.I.A., Hansen, M., Wicklund, T., Bengtsson, G.B.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, p. 63-73, 2009,ISSN 0023-6438  
**Keywords: Anthocyanins; Total phenols; FRAP; ORAC; l-ascorbic acid**

## TEEAL

279. Glucosinolates, L-ascorbic acid, total phenols, anthocyanins, antioxidant capacities and colour in cauliflower (*Brassica oleracea L. ssp botrytis*); effects of long-term freezer storage / Volden, J., Bengtsson, G.B., Wicklund, T.  
*Food Chemistry*, 2009, Volume 112, Issue 4, p. 967-976, ISSN 0308-8146  
**Descriptors: Antioxidant capacity; Blanching; Chromaticity; Storage; Cauliflower; Brassica oleracea botrytis; Glucosinolates**

## 2010

## DOAJ

280. Postharvest characteristics of two cultivars of cauliflower / de Souza, A.M., Gioppo, M., Jaciara, G., A.A. Ricardo, Rezende, B.L.A., Otto, R.F.  
*Biotemas*, Volume 23, Issue 2, p. 45-49, 2010, ISSN/EISSN 01031643  
**Keywords: Brassica oleracea botrytis; Quality; Storage**

## ScienceDirect

281. Development of the microbial community during spontaneous cauliflower fermentation / Paramithiotis, S., Hondrodinou, O.L., Drosinos, E.H.  
*Food Research International*, Volume 43, Issue 4, p. 1098-1103, May 2010, ISSN 0963-9969  
**Keywords:** Lactic acid bacteria; Spontaneous cauliflower fermentation; *Lactobacillus plantarum*; *Leuconostoc mesenteroides*; *Enterococcus faecium*; *Enterococcus faecalis*

## 2011 DOAJ

282. Influence of developmental stage on activities of polyphenol oxidase, internal characteristics and colour of lettuce cv. grand rapids / Chutichudet, B., Chutichudet, P., Kaewsit, S.  
*American Journal of Food Technology*, Volume 6, Issue 3, p. 215-225, 2011, ISSN/EISSN: 15574571 1557458X  
**Keywords:** Leaf colour; Browning appearance ; Lettuce; PPO activity; Phenolics

## ProQuest

283. Comparison of the nutritional value, sensory qualities, and food safety of organically and quality of kohlrabi stems (*Brassica oleracea* var. gongyloides L.) kept in cold storage / Gaweda, M., Nizioł-Lukaszewska, Z.  
*Folia Horticulturae*, Volume 23, Issue 2, p. 107, 2011, ISSN: 08671761  
**Keywords:** Kohlrabi; *Brassica oleracea*; Food safety; Quality; Nutritive value
284. Effect of storage conditions on the sensory quality, colour and texture of fresh-cut minimally processed cabbage with the addition of ascorbic acid, citric acid and calcium chloride / Manolopoulou, E.; Varzakas, T.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 956-963, Nov 2011, ISSN: 2157944X  
**Keywords:** Acids; Fruits; Enzymes; Vegetables; Drinking water; Sensory perception

## ScienceDirect

285. Effect of processing on the content of glucobrassicin and its degradation products in broccoli and cauliflower / Sosińska, E., Obiedziński, M.W.  
*Food Control*, Volume 22, Issue 8, p. 1348-1356, August 2011, ISSN 0956-7135  
**Keywords: Ascorbigen; Indole-3-carbinole; Indole-3-acetonitrile; Pickling; Fermentation; Thermal treatment**
286. Storage stability of cauliflower soup powder: The effect of lipid oxidation and protein degradation reactions / Raitio, R., Orlén, V., Skibsted, L.H.  
*Food Chemistry*, Volume 128, Issue 2, p. 371-379, 15 September 2011, ISSN 0308-8146  
**Keywords: Dry food powder; Storage stability; ESR spectroscopy; Lipid oxidation; Protein degradation reactions**

## 2012

## ScienceDirect

287. Fate of *Listeria monocytogenes* and *Salmonella typhimurium* during spontaneous cauliflower fermentation / Paramithiotis, S., Doulgeraki, I., Tsilikidis, I., Nychas, G.J.E., Drosinos, E.H.  
*Food Control*, Volume 27, Issue 1, p. 178-183, September 2012, ISSN 0956-7135  
**Keywords: Listeria monocytogenes; Salmonella typhimurium; Spontaneous cauliflower fermentation**

## 2013

## ScienceDirect

288. Spatial-spectral processing strategies for detection of salinity effects in cauliflower, aubergine and kohlrabi / Rud, R., Shoshany, M., Alchanatis, V.  
*Biosystems Engineering*, 1 February 2013, ISSN 1537-5110  
**Keywords: Cauliflower; Processing; Detection; Salinity**

## **Kentang DOAJ 2008**

289. Simulation of the heat and mass transfer processes during the vacuum frying of potato chips / Yamsaengsung, R., Rungsee, C., Prasertsit, K.  
*Songklanakarin Journal of Science and Technology*, Volume 30, Issue 1, p. 109-115, 2008, ISSN/EISSN: 01253395  
**Keywords: Modelling; Finite element; Vacuum frying; Frying; Oil absorption; Potato chips**

## **ProQuest**

290. Dakota diamond: an exceptionally high yielding, cold chipping potato cultivar with long-term storage potential / Thompson, A.L., Farnsworth, B.L., Gudmestad, N.C., Secor, G.A., Preston, D.A., Sowokinos, J.R., Glynn, M., Hatterman, V.H.  
*American Journal of Potato Research*, Volume 85, Issue 3, p. 171-182, Jun 2008, ISSN 1099209X  
**Keywords: Potatoes; High yielding varieties; Storage**
291. Developments in potato storage in Great Britain / Cunnington, A.C.  
*Potato Research*, Volume 51, Issues 3-4, p. 403-410, Dec 2008, ISSN: 0014-3065  
**Keywords: Potatoes; Crops; Storage; Studies**
292. Packaging for potato products / Som, R.  
*Food Magazine*, p. 17, Apr 2008,  
**Keywords: Potatoes; Products; Packaging**
293. Premier Russet: A dual-purpose, potato cultivar with significant resistance to low temperature sweetening during long-term storage / Novy, R.G., Whitworth, J.L., Stark, J.C., Love, S.L., Corsini, D.L., Pavek, J.J., Vales, M.I., James, S.R., Hane, D.C., Shock, C.C., Charlton, B.A., Brown, C.R., Knowles, N.R., Pavek, M.J., Brandt, T.L., Olsen, N.  
*American Journal of Potato Research*, Volume 85, Issue 3, p. 198-209, Jun 2008, ISSN 1099209X  
**Keywords: Potatoes; Cultivars; Low temperature; Sweetening; Storage**



294. Changes occurring in potatoes during cooking and reheating as affected by salting and cool or frozen storage – a LF-NMR study / Micklander, E., Thybo, A.K., van den Berg, F.  
*LWT - Food Science and Technology*, Volume 41, Issue 9, p. 1710-1719, November 2008, ISSN 0023-6438  
**Keywords: Potato cooking; Reheating; Salting; LF-NMR; Nuclear magnetic resonance; Gelatinization; Retrogradation; Syneresis**
295. Comparison of microtubers and field-grown tubers of potato (*Solanum tuberosum L.*) for hexoses, sucrose and their ratios following postharvest cold storage / Pathirana, R., Harris, J.C., McKenzie, M.J.  
*Postharvest Biology and Technology*, Volume 49, Issue 1, p. 180-184, July 2008, ISSN 0925-5214  
**Keywords: Cold-induced sweetening; Fructose; Glucose; Maillard browning; Processing**
296. Composition and colour stability of anthocyanins extracted from fermented purple sweet potato culture / Fan, G., Han, Y., Zhenxin, G., Feirong, G.  
*LWT - Food Science and Technology*, Volume 41, Issue 8, p. 1412-1416, November 2008, ISSN 0023-6438  
**Keywords: Purple sweet potato; Anthocyanins; Fermentation; Composition; Colour stability**
297. Control of respiration and color modification on minimally processed potatoes by means of low and high O<sub>2</sub>/CO<sub>2</sub> atmospheres / Angós, I., Vírseada, P., Fernández, T.  
*Postharvest Biology and Technology*, Volume 48, Issue 3, p. 422-430, June 2008, ISSN 0925-5214  
**Keywords: Respiration; Enzymatic browning; Fresh-cut potato; Modified atmosphere; High oxygen; Carbon dioxide; Mechanical properties**
298. Co-production of hydrogen and methane from potato waste using a two-stage anaerobic digestion process / Henguang, Z., Stadnyk, A., Béland, M., Seto, P.  
*Bioresource Technology*, Volume 99, Issue 11, p. 5078-5084, July 2008, ISSN 0960-8524  
**Keywords: Hydrogen; Methane; Co-production; Anaerobic digestion; Continuous flow**
299. Detachment of *Listeria innocua* and *Pantoea agglomerans* from cylinders of agar and potato tissue under conditions of Couette flow / Perni, S., Read, E.S., Shama, G.  
*Journal of Food Engineering*, Volume 89, Issue 3, p. 355-359, December 2008, ISSN 0260-8774  
**Keywords: Surface shear stress; Plant tissue; Couette flow; Bacterial detachment; Washing processes**

300. DSC study of mixtures of wheat flour and potato, sweet potato, cassava, and yam starches / Zaidul, I.S.M., Absar, N., Kim, S.J., Suzuki, T., Karim, A.A., Yamauchi, H., Noda, T.  
*Journal of Food Engineering*, Volume 86, Issue 1, p. 68-73, May 2008, ISSN 0260-8774  
**Keywords: Wheat flour; Tuber and root starches; Substitution; Gelatinization temperature**
301. Effect of process parameters and soy flour concentration on quality attributes and microstructural changes in ready-to-eat potato–soy snack using high-temperature short time air puffing / Nath, A., Chattopadhyay, P.K.  
*LWT - Food Science and Technology*, Volume 41, Issue 4, p. 707-715, May 2008, ISSN 0023-6438  
**Keywords: Microstructure; Scanning electron microscope; Puffing; Temperature; Snack food**
302. Effect of processing conditions on the water absorption and texture kinetics of potato / Cunningham, S.E., Mcminn, W.A.M., Magee, T.R.A., Richardson, P.S.  
*Journal of Food Engineering*, Volume 84, Issue 2, p. 214-223, January 2008, ISSN 0260-8774  
**Keywords: Fractional conversion model; Kinetics; Potatoes; Rehydration; Texture degradation**
303. Effect of starch retrogradation on texture of potato chips produced by low-pressure superheated steam drying / Kingcam, R., Devahastin, S., Chiewchan, N.  
*Journal of Food Engineering*, Volume 89, Issue 1, p. 72-79, November 2008, ISSN 0260-8774  
**Keywords: Baking; Blanching; Crystallinity; Drying kinetics; Freezing; Health snack; Pretreatment; Texture; X-ray diffraction**
304. Effect of temperature on the efficiency of the thermo- and mesophilic aerobic batch biodegradation of high-strength distillery wastewater (potato stillage) / Krzywonos, M., Cibis, E., Miśkiewicz, T., Kent, C.A.  
*Bioresource Technology*, Volume 99, Issue 16, p. 7816-7824, November 2008, ISSN 0960-8524  
**Keywords: Aerobic biodegradation; Temperature; Potato stillage; Batch process; Bacillus**
305. Enthalpy–entropy compensation for water loss of potato slices during deep-fat frying / Zúñiga, R.N., Moyano, P.C., Pedreschi, F.  
*Journal of Food Engineering*, Volume 88, Issue 1, p. 1-8, September 2008, ISSN 0260-8774  
**Keywords: Enthalpy; Entropy; Diffusivity; Frying; Potato**

306. Influence of osmotic dehydration and high temperature short time processes on dried sweet potato (*Ipomoea batatas Lam.*) / Antonio, G.C., Alves, D.G., Azoubel, P.M., Murr, F.E.X., Park, K.J.  
*Journal of Food Engineering*, Volume 84, Issue 3, p. 375-382, February 2008, ISSN 0260-8774  
**Keywords: Puffing; Microstructure; Experimental design; Drying rate**
307. Oil distribution in potato slices during frying / Pedreschi, F., Cocio, C., Moyano, P., Troncoso, E.  
*Journal of Food Engineering*, Volume 87, Issue 2, p. 200-212, July 2008, ISSN 0260-8774  
**Keywords: Oil absorption; Potato slices; Oil distribution; Frying; Blanching**
308. Optimization of the blanching process to reduce acrylamide in fried potatoes / Mestdagh, F., De Wilde, T., Fraselle, S., Govaert, Y., Ooghe, W., Ma Degroodt, J., Verhé, R., van Peteghem, C., De Meulenaer, B.  
*LWT - Food Science and Technology*, Volume 41, Issue 9, p. 1648-1654, November 2008, ISSN 0023-6438  
**Keywords: Acrylamide; Potato; Blanching; Response surface methodology**
309. Optimizing conditions for anthocyanins extraction from purple sweet potato using response surface methodology (RSM) / Fan, G., Han, Y., Zhenxin, G., Deming, C.  
*LWT - Food Science and Technology*, Volume 41, Issue 1, p. 155-160, January 2008, ISSN 0023-6438  
**Keywords: Purple sweet potato; Anthocyanins; Extraction; Response surface methodology; Optimization**
310. Phenolic constituents levels in cv. Agria potato under microwave processing / Barba, A.A., Calabretti, A., d'Amore, M., Piccinelli, A.L., Rastrelli, L.  
*LWT - Food Science and Technology*, Volume 41, Issue 10, p. 1919-1926, December 2008, ISSN 0023-6438  
**Keywords: Solanum tuberosum; Microwave cooking; Food analysis; Phenolic compounds; HPLC-DAD**
311. Potato (*Solanum tuberosum L.*) tuber physiological age index is a valid reference frame in postharvest ageing studies / Delaplace, P., Brostaux, Y., Fauconnier, M.L. du Jardin, P.  
*Postharvest Biology and Technology*, Volume 50, Issue 1, p. 103-106, October 2008, ISSN 0925-5214  
**Keywords: Incubation period; Dormancy; Sprouting pattern; Emergence pattern; Storage**

312. Predicting moisture profiles in potato and carrot during convective hot air drying using isothermally measured effective diffusivity / Srikiatden, J., Roberts, J.S.  
*Journal of Food Engineering*, Volume 84, Issue 4, p. 516-525, February 2008, ISSN 0260-8774  
**Keywords: Drying; Diffusion; Potato; Carrots; Modelling; Isothermal; Convective**
313. Sorption isotherms of potato slices dried and texturized by controlled sudden decompression / Iguedjtal, T., Louka, N., Allaf, K.  
*Journal of Food Engineering*, Volume 85, Issue 2, p. 180-190, March 2008, ISSN 0260-8774  
**Keywords: Sorption isotherms; Surface area; Isosteric heat; Texturizing; Potatoes; Drying**
314. Textural properties of potatoes (*Solanum tuberosum L.*, cv. Monalisa) as affected by different cooking processes / Segovia, P.G., Andrés, B.A., Monzó, J.M.  
*Journal of Food Engineering*, Volume 88, Issue 1, p. 28-35, September 2008, ISSN 0260-8774  
**Keywords: Vacuum cooking; Potatoes; Texture profile analysis**

## 2009 ScienceDirect

315. Blanching of potato with superheated steam and hot water spray/ Sotome, I., Takenaka, M., Koseki, S., Ogasawara, Y., Nadachi, Y.O., Okadome, H., Isobe, S.  
*LWT - Food Science and Technology*, Volume 42, Issue 6, p. 1035-1040, July 2009, ISSN 0023-6438  
**Keywords: Peroxidase; Polyphenol oxidase; Storage; Thermal processing; Vapor-liquid two-phase flow**
316. Comparative study of physical and sensory properties of pre-treated potato slices during vacuum and atmospheric frying / Troncoso, E., Pedreschi, F., Zúñiga, R.N.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, p. 187-195, 2009, ISSN 0023-6438  
**Keywords: Vacuum frying; Physical properties; Sensory properties; Potato variety; Pretreatment**
317. Comparison and modeling of microwave tempering and infrared assisted microwave tempering of frozen potato puree/ Seyhun, N., Ramaswamy, H., Sumnu, G., Sahin, S., Ahmed, J.  
*Journal of Food Engineering*, Volume 92, Issue 3, p. 339-344, June 2009, ISSN 0260-8774  
**Keywords: Microwave; Tempering; Infrared; Modelling; Frozen potato puree**

318. Effect of a de-oiling mechanism on the production of high quality vacuum fried potato chips / Moreira, R.G., Da Silva, P.F., Gomes, C.  
*Journal of Food Engineering*, Volume 92, Issue 3, p. 297-304, June 2009, ISSN 0260-8774  
**Keywords: Oil absorption; De-oiling; Vacuum frying; Texture**
319. Effect of chemical and biological dipping on acrylamide formation and sensory properties in deep-fried potatoes / Anese, M., Bortolomeazzi, R., Manzocco, L., Manzano, M., Giusto, C., Nicoli, M.C.  
*Food Research International*, Volume 42, Issue 1, p. 142-147, January 2009, ISSN 0963-9969  
**Keywords: Acrylamide; Consumer acceptability; Deep fried potatoes; Glycine; Lactic acid fermentation**
320. Effects of potato starch addition and cooling rate on rheological characteristics of flaxseed protein concentrate / Bo, W., Li J.W., Dong, L., Bhesh, B., Wen, F.W., John, S., Xiao, D.C., Zhi, H.M.  
*Journal of Food Engineering*, Volume 91, Issue 3, p. 392-401, April 2009, ISSN 0260-8774  
**Keywords: Rheological characteristics; Flaxseed protein concentrate; Potato starch**
321. Freezing of potato tissue pre-treated by pulsed electric fields / Jalté, M., Lanoisellé, J.L., Lebovka, N.I., Vorobiev, E.  
*LWT - Food Science and Technology*, Volume 42, Issue 2, p. 576-580, March 2009, ISSN 0023-6438  
**Keywords: Electroporation; Freezing; Pulsed electric fields; Freeze drying**
322. Image characterization of potato chip appearance during frying / Romani, S., Rocculi, P., Mendoza, F., Rosa, M.D.  
*Journal of Food Engineering*, Volume 93, Issue 4, p. 487-494, August 2009, ISSN 0260-8774  
**Keywords: Colour; Potato chips; Image analysis; Flat scanner; Brown area; Oily area**
323. Influence of the vacuum break conditions on oil uptake during potato post-frying cooling / Bel, J.M., Oria, R., Salvador, M.L.  
*Journal of Food Engineering*, Volume 95, Issue 3, p. 416-422, December 2009, ISSN 0260-8774  
**Keywords: Vacuum frying; Oil uptake; Potato; Post-frying cooling; Vacuum break velocity**

324. Investigation of effective thermal conductivity kinetics of crust and core regions of potato during deep-fat frying using a modified Lees method / Ziaifar, A.M., Heyd, B., Courtois, F.  
*Journal of Food Engineering*, Volume 95, Issue 3, p. 373-378, December 2009, ISSN 0260-8774  
**Keywords: Thermal conductivity; Frying; Crust; Core; Starch gelatinization**
325. Kinetics of acrylamide formation in potato powder / Franke, K., Strijowski, U., Reimerdes, E.H.  
*Journal of Food Engineering*, Volume 90, Issue 1, p. 135-140, January 2009, ISSN 0260-8774  
**Keywords: Acrylamide; Browning; Kinetics; Potato chips**
326. Kinetics of extraction of reducing sugar during blanching of potato slices / Pedreschi, F., Travisany, X., Reyes, C., Troncoso, E., Pedreschi, R.  
*Journal of Food Engineering*, Volume 91, Issue 3, p. 443-447, April 2009, ISSN 0260-8774  
**Keywords: Blanching; Reducing sugars; Potato slices; Frying; Modelling**
327. Measurement of evaporated acrylamide during frying of potatoes: Effect of frying conditions and surface area-to-volume ratio / Gökmen, V., Palazoğlu, T.K.  
*Journal of Food Engineering*, Volume 93, Issue 2, p. 172-176, July 2009, ISSN 0260-8774  
**Keywords: Acrylamide; Frying; Potato; Evaporated acrylamide; Surface area; Volume ratio**
328. Modeling water loss and oil uptake during vacuum frying of pre-treated potato slices / Troncoso, E., Pedreschi, F.  
*LWT - Food Science and Technology*, Volume 42, Issue 6, p. 1164-1173, July 2009, ISSN 0023-6438  
**Keywords: Vacuum frying; Modelling; Potato slices; Water loss; Oil uptake**
329. Oil partitioning between surface and structure of deep-fat fried potato slices: A kinetic study / Debnath, S., Rastogi, N.K., Krishna, A.G.G., Lokesh, B.R.  
*LWT - Food Science and Technology*, Volume 42, Issue 6, p. 1054-1058, July 2009, ISSN 0023-6438  
**Keywords: Deep fat frying; Oil partitioning; Potato slices; Snacks**
330. Physico-mechanical properties of potato tubers during cold storage / Bentini, M., Caprara, C., Martelli, R.  
*Biosystems Engineering*, Volume 104, Issue 1, p. 25-32, September 2009, ISSN 1537-5110  
**Keywords: Potato; Tubers; Cold storage; Physicochemical properties**

331. Shrinkage of potato slice during drying / Yadollahinia, A., Jahangiri, M.  
*Journal of Food Engineering*, Volume 94, Issue 1, p. 52-58, September 2009, ISSN 0260-8774  
**Keywords: Drying; Machine vision; Shrinkage; Potato slices; Drying rate**
332. Suitability of five different potato cultivars (*Solanum tuberosum L.*) to be processed as fresh-cut products / Serrano, A.B.C., Amodio, M.L., Cornacchia, R., Rinaldi, R., Colelli, G.  
*Postharvest Biology and Technology*, Volume 53, Issue 3, p. 138-144, September 2009, ISSN 0925-5214  
**Keywords: Phenols; Browning; Ascorbic acid; Antioxidant activity; PPO activity; PAL activity**
333. Sweetening responses of potato tubers of different maturity to conventional and non-conventional storage temperature regimes / Knowles, N.R., Driskill Jr.E.P., Knowles, L.O.  
*Postharvest Biology and Technology*, Volume 52, Issue 1, p. 49-61, April 2009, ISSN 0925-5214  
**Keywords: Solanum tuberosum; Potato; Sweetening; Maturity; Storage temperature; Tubers**
334. Thermo- and mesophilic aerobic batch biodegradation of high-strength distillery wastewater (potato stillage) – Utilisation of main carbon sources / Krzywonos, M., Cibis, E., Lasik, M., Nowak, J., Miśkiewicz, T.  
*Bioresource Technology*, Volume 100, Issue 9, p. 2507-2514, May 2009, ISSN 0960-8524  
**Keywords: Aerobic biodegradation; Thermophilic bacillus; Mesophilic bacillus; Distillery stillage; Organic acids; High-strength wastewater**

## 2010 ProQuest

335. Cooking methods and storage treatments of potato: effects on carotenoids, antioxidant activity, and phenolics / Blessington, T., Nzaramba, M.N., Scheuring, D.C., Hale, A.L., Reddivari, L., Miller, J.C.Jr.  
*American Journal of Potato Research*, Volume 87, Issue 6, p. 479-491, Dec 2010, ISSN 1099209X  
**Keywords: Potatoes; Storage; Cooking methods; Carotenoids; Phenolics**
336. Effect of CIPC on sprout inhibition and processing quality of potatoes stored under traditional storage systems in India / Mehta, A., Singh, B., Ezekiel, R., Kumar, D.  
*Potato Research*, Volume 53, Issue 1, p. 1-15, Mar 2010, ISSN 0014-3065  
**Keywords: Potatoes; Storage; Chlorpropham; Processing quality**

337. Effect of high temperature during storage on the vigour of potato mother tubers / Rykaczewska, K.  
*Potato Research*, Volume 53, Issue 4, p. 325-329, Dec 2010, ISSN: 0014-3065  
**Keywords: Storage; Temperature; Potatoes; Cultivars; Seeds**
338. Glycoalkaloid concentration in potato tubers related to storage and consumer offering / Haase, N.U.  
*Potato Research*, Volume 53, Issue 4, p. 297-307, Dec 2010, ISSN: 0014-3065  
**Keywords: Potatoes; Storage; Toxins; Food safety; Glycoalkaloids; Consumer preferences**
339. Specific gravity, dry matter concentration, ph, and crisp-making potential of ethiopian potato (*Solanum tuberosum* L.) cultivars as influenced by growing environment and length of storage under ambient conditions / Asmamaw, Y., Tekalign, T., Workneh, T.S.  
*Potato Research* 53. 2 (Jun 2010): 95-109. ISSN: 0014-3065  
**Keywords: Storage; Potatoes; Product quality; Harvest; Cultivars**

## ScienceDirect

340. Determination of heat transfer coefficient during high pressure frying of potatoes/ Erdogdu, F., Dejmek, P.  
*Journal of Food Engineering*, Volume 96, Issue 4, p. 528-532, February 2010, ISSN 0260-8774  
**Keywords: Frying; High pressure frying; Heat transfer coefficient; Potatoes**
341. Effect of microwave pre-thawing of frozen potato strips on acrylamide level and quality of French fries / Tuta, S., Palazoğlu, T.K., Gökmen, V.  
*Journal of Food Engineering*, Volume 97, Issue 2, p. 261-266, March 2010, ISSN 0260-8774  
**Keywords: Potato; French fries; Acrylamide; Microwave pre-thawing; Frying**
342. Effect of storage on antioxidant activity of freeze-dried potato peels / Al-Weshahy, A., El-Nokety, M., Bakhete, M., Rao, V.  
*Food Research International*, Volume 5, Issue 2, p. 507-512, 10 December 2010, ISSN 0963-9969  
**Keywords: Antioxidants; Polyphenolic compounds; Potato peel; Storage**
343. Effect of  $\beta$ -cyclodextrin addition on quality of precooked vacuum packed potatoes/ Lante, A., Zocca, F.  
*LWT - Food Science and Technology*, Volume 43, Issue 3, p. 409-414, April 2010, ISSN 0023-6438  
**Keywords:  $\beta$ -cyclodextrin; Precooked potato; Vacuum packaging; Colour; Resistant starch**



344. Effects of vacuum and microwave freeze drying on microstructure and quality of potato slices / Rui, W., Min, Z., Mujumdar, A.S.  
*Journal of Food Engineering*, Volume 101, Issue 2, p. 131-139, November 2010, ISSN 0260-8774  
**Keywords: Quality; Freezing; Sublimation drying; Desorption drying; Potato**
345. Evaluation of acrylamide formation in potatoes during deep-frying: The effect of operation and configuration / Carrieri, G., Anese, M., Quarta, B., De Bonis, M.V., Ruocc, G.  
*Journal of Food Engineering*, Volume 98, Issue 2, p. 141-149, May 2010, ISSN 0260-8774  
**Keywords: Acrylamide; Deep frying; Computational fluid dynamics; Kinetics; Transport phenomena**
346. Impact of batch, repeated-batch (with cell recycle and medium replacement) and continuous processes on the course and efficiency of aerobic thermophilic biodegradation of potato processing wastewater / Lasik, M., Nowak, J., Krzywonos, M., Cibis, E.  
*Bioresource Technology*, Volume 101, Issue 10, p. 3444-3451, May 2010, ISSN 0960-8524  
**Keywords: Thermophilic aerobic biodegradation; Bacillus mixed culture; High strength wastewater; Repeated-batch process; Continuous process**
347. Potato peel-based biopolymer film development using high-pressure homogenization, irradiation, and ultrasound / Ho Jin Kang, Min, S.C.  
*LWT - Food Science and Technology*, Volume 43, Issue 6, p. 903-909, July 2010, ISSN 0023-6438  
**Keywords: Biopolymer film; Potato peel; High-pressure homogenization; Irradiation; Ultrasound**
348. Reduction of acrylamide by taurine in aqueous and potato chip model systems/ Shin, D.C., Cheong, T.K., Young, C.L., Woo, J.C., Young, J.N., Kwang, W.L.  
*Food Research International*, Volume 43, Issue 5, p. 1356-1360, June 2010, ISSN 0963-9969  
**Keywords: Acrylamide formation; Maillard reaction; Glycation; Taurine; Fried potato chips**
349. Selection of stress-tolerant yeasts for simultaneous saccharification and fermentation (SSF) of very high gravity (VHG) potato mash to ethanol / Watanabe, T., Srichuwong, S., Arakane, M., Tamiya, S., Yoshinaga, M., Watanabe, I., Yamamoto, M., Ando, A., Tokuyasu, K., Nakamura, T.  
*Bioresource Technology*, Volume 101, Issue 24, p. 9710-9714, December 2010, ISSN 0960-8524  
**Keywords: Bioethanol; Very high gravity (VHG); Osmotolerant; Thermotolerant; Simultaneous saccharification and fermentation (SSF)**

350. Study of DIC hydrothermal treatment effect on rheological properties of standard maize (SMS), waxy maize (WMS), wheat (WTS) and potato (PTS) starches / Rezzoug, Z.M., Zarguili, I., Loisel, C., Doublier, J.L.  
*Journal of Food Engineering*, Volume 99, Issue 4, p. 452-458, August 2010, ISSN 0260-8774

**Keywords: Starch; DIC hydrothermal treatment; Granulometry; Rheological properties**

351. Time course effects on primary metabolism of potato (*Solanum tuberosum*) tuber tissue after mechanical impact / Strehmel, N., Praeger, U., König, C., Fehrle, I., Erban, A., Geyer, M., Kopka, J., van Dongen, J.T.  
*Postharvest Biology and Technology*, Volume 56, Issue 2, p. 109-116, May 2010, ISSN 0925-5214

**Keywords: Blackspot bruising; GC-TOF-MS; Mechanical stress; Metabolic profiling; Postharvest damage; Solanum tuberosum; Primary metabolism**

## 2011 ProQuest

352. Vitamin B1 content in potato: effect of genotype, tuber enlargement, and storage, and estimation of stability and broad-sense heritability / Goyer, A., Haynes, K.G.  
*American Journal of Potato Research*, Volume 88, Issue 4, p. 374-385, Jul 2011, ISSN 1099209X

**Keywords: Potatoes; Vitamin B; Storage; Heritability**

## ScienceDirect

353. Acrylamide reduction in potato chips by using commercial asparaginase in combination with conventional blanching / Pedreschi, F., Mariotti, S., Granby, K., Risum, J.  
*LWT - Food Science and Technology*, Volume 44, Issue 6, p. 1473-1476, July 2011, ISSN 0023-6438

**Keywords: Potato chips; Blanching; Acrylamide; Asparaginase; Colour**

354. Beneficial phytochemicals in potato - a review/ Ezekiel, R., Singh, N., Sharma, S., Kaur, A.  
*Food Research International*, 21 April 2011, ISSN 0963-9969

**Keywords: Anthocyanins; Antioxidants; Carotenoids; Cooking; Genotype; Phenolics; Phytochemicals; Potatoes; Processing; Stability; Storage**

355. Biogas production from potato-juice, a by-product from potato-starch processing, in upflow anaerobic sludge blanket (UASB) and expanded granular sludge bed (EGSB) reactors / Fang, C., Boe, K., Angelidaki, I.  
*Bioresource Technology*, Volume 102, Issue 10, p. 5734-5741, May 2011, ISSN 0960-8524  
**Keywords: Anaerobic digestion; Methane potential; Potato-juice; UASB; EGSB**
356. Comparison of four drying methods for re-structured mixed potato with apple chips / Lue-lue, H., Min, Z., Mujumdar, A.S., Rui-xin, L.  
*Journal of Food Engineering*, Volume 103, Issue 3, p. 279-284, April 2011, ISSN 0260-8774  
**Keywords: Freeze drying; Microwave; Microwave vacuum drying; Mixed chips; Re-structured; Vacuum drying**
357. Differences in suberin content and composition between two varieties of potatoes (*Solanum tuberosum*) and effect of post-harvest storage to the composition / Järvinen, R., Rauhala, H., Holopainen, U., Kallio, H.  
*LWT - Food Science and Technology*, Volume 44, Issue 6, p. 1355-1361, July 2011, ISSN 0023-6438  
**Keywords: Gas chromatography; Postharvest storage; Potato; Solanum tuberosum; Suberin**
358. Effect of electrostatic interactions on pasting properties of potato starch/xanthan gum combinations / Xuran, C., Yan, H., Zhengbiao, G., Yayuan, Z.  
*Food Research International*, Volume 44, Issue 9, p. 3079-3086, November 2011, ISSN 0963-9969  
**Keywords: Potato starch; Xanthan gum; Pasting properties; Zeta potential; SEM**
359. Effect of formulation and processing parameters on acrylamide formation: A case study on extrusion of blends of potato flour and semolina / Mulla, M.Z., Bharadwaj, V.R., Annapure, U.S., Singhal, R.S.  
*LWT - Food Science and Technology*, Volume 44, Issue 7, p. 1643-1648, September 2011, ISSN 0023-6438  
**Keywords: Acrylamide; Potato flour; Semolina; Extrusion; Mitigation; Response surface methodology**
360. Effect of hydrocolloid coatings on the heat transfer and oil uptake during frying of potato strips / Kim, D.N., Jongbin, L., In Young, B., Hyeon, G.L., Suyong, L.  
*Journal of Food Engineering*, Volume 102, Issue 4, p. 317-320, February 2011, ISSN 0260-8774  
**Keywords: Hydrocolloids; Coating; Heat transfer; Oil uptake; Fry**

361. Effect of potato starch modification on mechanical parameters and granules morphology / Stasiak, M., Rusinek, R., Molenda, M., Fornal, J., Błaszczak, W.  
*Journal of Food Engineering*, Volume 102, Issue 2, p. 154-162, January 2011, ISSN 0260-8774  
**Keywords: Food powders; Starch; Dextrins; Potato protein; Microstructure; Mechanical properties; Flowability; Shear test**
362. Effect of salt and sucrose content on dielectric properties and microwave freeze drying behavior of re-structured potato slices / Rui, W., Min, Z., Mujumdar, A.S., Hao, J.  
*Journal of Food Engineering*, Volume 106, Issue 4, p. 290-297, October 2011, ISSN 0260-8774  
**Keywords: Potato slices; Microwave freeze drying; Dielectric properties; Salt; Sucrose**
363. Hot air expansion of potato starch pellets with different water contents and salt concentrations / Norton, A.D., Greenwood, R.W., Noble, I., Cox, P.W.  
*Journal of Food Engineering*, Volume 105, Issue 1, p. 119-127, July 2011, ISSN 0260-8774  
**Keywords: Potato starch; Puffing kinetics; Expansion; Sodium; Potassium**
364. Impact of structural changes due to heat-moisture treatment at different temperatures on the susceptibility of normal and waxy potato starches towards hydrolysis by porcine pancreatic alpha amylase / Varatharajan, V., Hoover, R., Jihong, L., Vasanthan, T., Nantanga, K.K.M., Seetharaman, K., Liu, Q., Donner, E., Jaiswal, S., Chibbar, R.N.  
*Food Research International*, Volume 44, Issue 9, p. 2594-2606, November 2011, ISSN 0963-9969  
**Keywords: Normal potato; Waxy potato; Heat moisture treatment; Amylolysis**
365. Microstructure, mechanical properties, and starch digestibility of a cooked dough made with potato starch and wheat glute / Parada, J., Aguilera, J.M.  
*LWT - Food Science and Technology*, Volume 44, Issue 8, p. 1739-1744, October 2011, ISSN 0023-6438  
**Keywords: Starch; Gluten; Microstructure; Mechanical properties; In vitro digestibility**
366. Physical and thermal properties of potato chips during vacuum frying / Yagua, C.V., Moreira, R.G.  
*Journal of Food Engineering*, Volume 104, Issue 2, p. 272-283, May 2011, ISSN 0260-8774  
**Keywords: Vacuum; Frying; Microstructure; Heat transfer coefficient; De-oiling**

367. Prediction of optimal cooking time for boiled potatoes by hyperspectral imaging / Do Trong, N.N., Tsuta, M., Nicolai, B.M., De Baerdemaeker, J., Saeys, W.  
*Journal of Food Engineering*, Volume 105, Issue 4, p. 617-624, August 2011, ISSN 0260-8774  
**Keywords: Hyperspectral imaging; PLSDA; Image processing**
368. Pulsed electric fields and their impact on the diffusion characteristics of potato slices / Janositz, A., Noack, A.K., Knorr, D.  
*LWT - Food Science and Technology*, Volume 44, Issue 9, November 2011, p. 1939-1945, ISSN 0023-6438  
**Keywords: Pulsed electric fields; Potato; Diffusion; Reducing sugars; Drying**
369. Relationship between enthalpy relaxation and water sorption of ball-milled potato starch / Anzai, M., Hagiwara, T., Watanabe, M., Komiyama, J., Suzuki, T.  
*Journal of Food Engineering*, Volume 104, Issue 1, p. 43-48, May 2011, ISSN 0260-8774  
**Keywords: Differential scanning calorimeter; Water sorption; Dual-mode sorption; Potato starch; Ball milling; Enthalpy relaxation**
370. Shelf-life of near-aseptically packaged refrigerated potato strips / Oner, M.E., Walker, P.N.  
*LWT - Food Science and Technology*, Volume 44, Issue 7, p. 1616-1620, September 2011, ISSN 0023-6438  
**Keywords: Near-aseptic packaging; Blanching; Potato strips; Texture; Quality; Mesophilic bacteria**
371. Subcritical water extraction of phenolic compounds from potato peel / Singh, P.P., Saldaña, M.D.A.  
*Food Research International*, Volume 44, Issue 8, p. 2452-2458, October 2011, ISSN 0963-9969  
**Keywords: Chlorogenic acid; Extraction; Gallic acid; Phenolic compounds; Potato peel; Subcritical water**
372. Viscoelasticity and microstructure of inulin-enriched mashed potatoes: Influence of freezing and cryoprotectants / Alvarez, M.D., Fernández, C., Solas, M.T., Canet, W.  
*Journal of Food Engineering*, Volume 102, Issue 1, p. 66-76, January 2011, ISSN 0260-8774  
**Keywords: Viscoelasticity; Mashed potatoes; Cryoprotectants; Inulin; Structure; Water-holding capacity; Creamine**

## 2012 DOAJ

373. Study of shrinkage of potato sheets during drying in thin-layer dryer / Shekofteh, M., Cherati, F.E., Kamyab, S., Hosseinpor, Y.  
*Research Journal of Applied Sciences, Engineering and Technology*, Volume 4, Issue 16, p. 2677-2681, 2012, ISSN/EISSN: 20407459 20407467  
**Keywords: Drying; Drying velocity; Elongation; Potato sheet; Shrinkage**

## ProQuest

374. Dutch approach can help optimise your potato storage operation / Clarke, A.  
*Farmers Weekly*, Volume 158, Issue 16, p. 68, 19 Oct 2012, ISSN 00148474  
**Keywords: Potatoes; Storage; Harvest; Ventilation**
375. Effects of tissue sampling position, primary and secondary infection, cultivar, and storage temperature and duration on the detection, concentration and distribution of three viruses within infected potato tubers / Cox, B.A., Jones, R.A.C.  
*Australasian Plant Pathology*, Volume 41, Issue 2, p. 197-210, Mar 2012, ISSN: 08153191  
**Keywords: Potatoes; Tubers; Tissues position; Storage; Duration; Virus detection**

## ScienceDirect

376. Effect of genetic modification and storage on the physico-chemical properties of potato dry matter and acrylamide content of potato chips / Pinhero, R., Pazhekattu, R., Whitfield, K., Marangoni, A.G., Liu, Q., Yada, R.Y.  
*Food Research International*, Volume 49, Issue 1, p. 7-14, November 2012, ISSN 0963-9969  
**Keywords: Acrylamide; Potato; Transgenic; Starch digestibility**
377. Antifungal activity of sulfur-containing salts against the development of carrot cavity spot and potato dry rot / Kolaei, E.A., Tweddell, R.J., Avis, T.J.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 55-59, January 2012, ISSN 0925-5214  
**Keywords: Antimicrobial salt; Cavity spot; Dry rot; Postharvest disease; Sulfate; Sulf**

378. Antifungal effect of borates against *Fusarium sulphureum* on potato tubers and its possible mechanisms of action / Yongcai, L., Zhimin, Y., Yang, B., Junlian, Z., Di, W. *Postharvest Biology and Technology*, Volume 74, p. 55-61, December 2012, ISSN 0925-5214  
**Keywords: Potassium tetraborate; Borax; Potato tuber; Dry rot; Fusarium sulphureum**
379. Caramel sauces thickened with combinations of potato starch and xanthan gum / Krystyjan, M., Sikora, M., Adamczyk, G., Tomasik, P. *Journal of Food Engineering*, Volume 112, Issues 1–2, p. 22-28, September 2012, ISSN 0260-8774  
**Keywords: Caramel sauce; Potato starch; Xanthan gum; Rheology; Texture; Sensory evaluation; Thickeners**
380. Economical biorefinery process for propionic acid production from glycerol and potato juice using high cell density fermentation / Dishisha, T., Ståhl, Å., Lundmark, S., Kaul, R.H. *Bioresource Technology*, 31 August 2012, ISSN 0960-8524  
**Keywords: Biorefinery; Platform chemical; Organic acids; Cell recycle; High cell density fermentation**
381. Effect of native crystalline structure of isolated potato starch on gelatinization behavior and consequently on glycemic response / Parada, J., Aguilera, J.M. *Food Research International*, Volume 45, Issue 1, p. 238-243, January 2012, ISSN 0963-9969  
**Keywords: Potato starch; X-ray diffraction; Gelatinization; Glycemic response**
382. Effect of potato deep-fat frying conditions on temperature dependence of olive oil and palm oil viscosity / Lioumbas, J.S., Ampatzidis, C., Karapantsios, T.D. *Journal of Food Engineering*, Volume 113, Issue 2, p. 217-225, November 2012, ISSN 0260-8774  
**Keywords: Viscosity; Oil; Temperature; Deep fat frying; Models**
383. Effect of storage conditions on photostimulated luminescence of irradiated garlic and potatoes / Jae-Jun, A., Gui-Ran, K., Akram, K., Kyong-Su, K., Joong-Ho, K. *Food Research International*, Volume 47, Issue 2, p. 315-320, July 2012, ISSN 0963-9969  
**Keywords: Photostimulated luminescence; Irradiation; Detection; Potato; Garlic**
384. Effects of cooking methods on polyphenols, pigments and antioxidant activity in potato tubers / Perla, V., Holm, D.G., Jayanty, S.S. *LWT - Food Science and Technology*, Volume 45, Issue 2, p. 161-171, March 2012, ISSN 0023-6438  
**Keywords: Solanum tuberosum; Phenolics; Flavonoids; Flavonols; Carotenoids; Free radicals; Scavenging activity**

385. Evaluation of potato-processing wastewater treatment in a microbial fuel cell / Durruty, I., Bonanni, P.S., González, J.F., Busalmen, J.P.  
*Bioresource Technology*, Volume 105, p. 81-87, February 2012, ISSN 0960-8524  
**Keywords: Microbial fuel cell; Wastewater treatment; Methanogenesis; Energetic conversion; Microbial electricity**
386. Influence of some chemical modifications on the characteristics of potato starch powders / Fornal, J., Sadowska, J., Błaszczak, W., Jeliński, T., Stasiak, M., Molenda, M., Hajnos, M.  
*Journal of Food Engineering*, Volume 108, Issue 4, p. 515-522, February 2012, ISSN 0260-8774  
**Keywords: Potato starch; Chemical modification; Microstructure; Porosity; Shear test; Uniaxial compression; Flowability**
387. In-line sorting of irregular potatoes by using automated computer-based machine vision system / ElMasry, G., Cubero, S., Moltó, E., Blasco, J.  
*Journal of Food Engineering*, Volume 112, Issues 1–2, p. 60-68, September 2012, ISSN 0260-8774  
**Keywords: Machine vision; Computer vision; Potato; Fourier transform; Shape; Classification; Image processing**
388. Mathematical modeling of the heat and mass transfer in a stationary potato sphere impinged by a single round liquid jet in a hydrofluidization system / Peralta, J.M., Rubiolo, A.C., Zorrilla, S.E.  
*Journal of Food Engineering*, Volume 109, Issue 3, p. 501-512, April 2012, ISSN 0260-8774  
**Keywords: Mathematical model; Heat; Mass transfer; Hydrofluidization; Foods**
389. Mechanical and acoustic evaluation of potato chip crispness using a versatile texture analyzer / Taniwaki, M., Kohyama, K.  
*Journal of Food Engineering*, Volume 112, Issue 4, p. 268-273, October 2012, ISSN 0260-8774  
**Keywords: Acoustic property; Crispness; Food texture; Fracture; Mechanical properties; Potato chips**
390. Mitigating effect of piquin pepper (*Capsicum annum L.* var. Aviculare) oleoresin on acrylamide formation in potato and tortilla chips / Salazar, R., Villa, G.A., Hidalgo, F.J., Zamora, R.  
*LWT - Food Science and Technology*, Volume 48, Issue 2, p. 261-267, October 2012, ISSN 0023-6438  
**Keywords: Acrylamide mitigation; Antioxidant activity; Lipid oxidation; Maillard reaction; Piquin pepper oleoresin**



391. On the capacity of a crust–core model to describe potato deep-fat frying / Lioumbas, J.S., Kostoglou, M., Karapantsios, T.D.  
*Food Research International*, Volume 46, Issue 1, p. 185-193, April 2012, ISSN 0963-9969  
**Keywords: Frying; Potato; Heat transfer coefficient; Modelling; Crust formation; Vapor flux**
392. Porous media based model for deep-fat vacuum frying potato chips / Warning, A., Dhall, A., Mitrea, D., Datta, A.K.  
*Journal of Food Engineering*, Volume 110, Issue 3, p. 428-440, June 2012, ISSN 0260-8774  
**Keywords: Porous media; Multiphase; Oil absorption; Acrylamide**

## 2013 ProQuest

393. Long-term potato storage needs more ventilation / Casswell, L.  
*Farmers Weekly*, Volume 159, Issue 10, p. 64, 15 Maret 2013, ISSN: 00148474  
**Keywords: Storage; Potatoes; Crop diseases; Ventilation**
394. Patents; "Biocontrol of Storage Maladies of Potatoes by Bacterial Antagonists Produced in Co-Culture" in Patent Application Approval Process  
*Agriculture Week*, p. 317, 10 Jan 2013, ISSN: 1938-1786  
**Keywords: Inventors; Plant diseases; Fungi; Crop diseases; Storage**

## ScienceDirect

395. "Cold" electroporation in potato tissue induced by pulsed electric field / Boussetta, N., Grimi, N., Lebovka, N.I., Vorobiev, E.  
*Journal of Food Engineering*, Volume 115, Issue 2, p. 232-236, March 2013, ISSN 0260-8774  
**Keywords: Pulsed electric fields; Potatoes; Electroporation; Electrical conductivity; Disintegration index; Power consumption**
396. Changes in ascorbate and associated gene expression during development and storage of potato tubers (*Solanum tuberosum L.*) / Blauer, J.M., Kumar, G.N.M., Knowles, L.O., Dhingra, A., Knowles, N.R.  
*Postharvest Biology and Technology*, Volume 78, p. 76-91, April 2013, ISSN 0925-5214  
**Keywords: Ascorbate; Tuber development; Tuberization; Smirnoff-Wheeler pathway; Solanum tuberosum; Wounding; Vitamin C**

397. Conversion of a non-water soluble potato starch waste into reducing sugars under non-conventional technologies / Hernoux, A., Lévêque, J.M., Lassi, U., Boisseau, S.M., Marais, M.F.  
*Carbohydrate Polymers*, Volume 92, Issue 2, p. 2065-2074, 15 February 2013, ISSN 0144-8617  
**Keywords: Biomass; Starch-based waste; Microwave irradiation; Ultrasound irradiation**
398. Effect of peeling and three cooking methods on the content of selected phytochemicals in potato tubers with various colour of flesh / Lachman, J., Hamouz, K., Musilová, J., Hejtmánková, K., Kotíková, Z., Pazderů, K., Domkářová, J., Pivec, V., Cimr, J.  
*Food Chemistry*, Volume 138, Issues 2–3, p. 1189-1197, 15 May–1 June 2013, ISSN 0308-8146  
**Keywords: Potato tuber peeling; Potato cooking methods; Anthocyanins; Ascorbic acid; Chlorogenic acid; Glycoalkaloids**
399. Effects of power ultrasound on immersion freezing parameters of potatoes / Comandini, P., Blanda, G., Caballero, M.C.S., Sala, V., Tylewicz, U., Paz, H.M., Fragoso, A.V., Toschi, T.G.  
*Innovative Food Science & Emerging Technologies*, Volume 18, p. 120-125, 4 February 2013, ISSN 1466-8564  
**Keywords: Freezing; Nucleation; Potato; Ultrasound; Supercooling**
400. Inhibition of potato tuber sprouting during storage by the controlled release of essential oil using a wick application method / Owolabi, M.S., Olowu, R.A., Lajide, L., Oladimeji, M.O., Camberos, E.P., Fernández, J.M.F.  
*Industrial Crops and Products*, Volume 45, p. 83-87, February 2013, ISSN 0926-6690  
**Keywords: Zingiber officinale; Lippia multiflora; Essential oils; Potato sprouting; Wick application method; Release profile**
401. Long-term storage stability of selected potato starch – Non-starchy hydrocolloid binary gels / Krystyjan, M., Adamczyk, G., Sikora, M., Tomasik, P.  
*Food Hydrocolloids*, Volume 31, Issue 2, p. 270-276, June 2013, ISSN 0268-005X  
**Keywords: Xanthan; Guar gum; Rheology; Texture; Starch**
402. Reduction of acrylamide formation by vanadium salt in potato French fries and chips / Kalita, D., Jayanty, S.S.  
*Food Chemistry*, Volume 138, Issue 1, p. 644-649, 1 May 2013, ISSN 0308-8146  
**Keywords: Vanadyl sulphate; Acrylamide; Potato; French fries; Chips**
403. Rheology of potato starch chemically modified with microwave-assisted reactions / Staroszczyk, H., Fiedorowicz, M., Piskorz, J.O., Tylingo, R.  
*LWT - Food Science and Technology*, 23 January 2013, ISSN 0023-6438  
**Keywords: Boration; Selenation; Silication; Sulfation; Zincatation; Paste rheology**

404. Storage induced changes of potato properties as detected by DMA / Blahovec, J., Lahodová, M.  
*LWT - Food Science and Technology*, Volume 50, Issue 2, p. 444-450, March 2013, ISSN 0023-6438  
**Keywords: Potato; DMA; Starch; Gelatinization; Temperature; Deformation; Cell wall; Frequency; Amplitude; Tissue stability; Swelling; Storage**
405. Total phenolic, total anthocyanin and phenolic acid concentrations and antioxidant activity of purple-fleshed potatoes as affected by boiling / Burgos, G., Amoros, W., Muñoa, L., Sosa, P., Cayhualla, E., Sanchez, C., Díaz, C., Bonierbale, M.  
*Journal of Food Composition and Analysis*, Volume 30, Issue 1, p. 6-12, May 2013, ISSN 0889-1575  
**Keywords: Potato; Solanum andigenum; Total phenolics; Chlorogenic acid; Total anthocyanins; Nutrition; Antioxidant activity; Cooking; Boiling; Biodiversity; Food processing; Nutrient stability; Food analysis; Food composition**
406. Two-stage foam separation technology for recovering potato protein from potato processing wastewater using the column with the spiral internal component / Zongmin, L., Zhaoliang, W., Rui, L., Xuejun, F.  
*Journal of Food Engineering*, Volume 114, Issue 2, p. 192-198, January 2013, ISSN 0260-8774  
**Keywords: Foam separation; Potato starch; Wastewater; Protein**
407. Use of natural plant volatile compounds for the control of the potato postharvest diseases, black dot, silver scurf and soft rot / Wood, E.M., Miles, T.D., Wharton, P.S.  
*Biological Control*, Volume 64, Issue 2, p. 152-159, February 2013, ISSN 1049-9644  
**Keywords: Colletotrichum coccodes; Helminthosporium solani; Pectobacterium atrosepticum; Solanum tuberosum; Controlled atmospheric packaging; 2E-hexenal; Acetaldehyde**

**Kubis  
2008  
CABI**

408. Modified atmosphere packaging of minimally processed cabbage (*Brassica oleracea* var. *capitata*) / Rai, D.R., Narsaiah, K., Bharti, D.K., Reddy, P.M.K., Brar, S.S.  
*Journal of Food Science and Technology (Mysore)*, Volume 46, Issue 5, p. 436-439, 2009, ISSN 0022-1155  
**Keywords: Cabbages; Modified atmosphere packaging; Washing; Shredded**

409. Regulation of metabolic changes in shredded cabbage by modified atmosphere packaging / Plestenjak, A., Požrl, T., Hribar, J., Unuk, T., Vidrih, R.  
*Food Technology and Biotechnology*, Volume 46, Issue 4, 2008, p. 427-433, ISSN 1330-9862  
**Keywords: Cabbages; Modified atmosphere; Packaging; Polyethylene; Plypropylene; Respiration; Anaerobic metabolism**

## 2010

410. Microbiological and visual quality of fresh-cut cabbage as affected by packaging treatments / Hee, L.H., SeokIn, H., DongMan, K.  
*Food Science and Biotechnology*, Volume 20, Issue 1, p. 229-235, 2011, ISSN 1226-7708  
**Keywords: Modified atmosphere packaging; Vacuum packaging; Superatmospheric oxygen; Microbiological safety; Fresh-cut vegetables**

## 2011 GREENR

411. Effect of storage conditions on the sensory quality, colour and texture of fresh-cut minimally processed cabbage with the addition of ascorbic acid, citric acid and calcium chloride / Manolopoulou, Eleni, Varzakas, T.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 956-963, 2011  
**Keywords: Storage; Sensory quality; Colour; Texture; Fresh-cut minimally; Processed cabbage; Ascorbic acid; Citric acid; Calcium chloride**

## 2012

412. Effects of blanching time on anti oxidant (Vitamin C) status in some fresh vegetables (carrot, cabbage, and green beans) / Gimba, J.D., Daniel, V.N., Chundusu, E.S., Oyigabo, A.  
*Continental Journal of Food Science and Technology*, Volume 6, Issue 1, p. 1-3, 2012  
**Keywords: Blanching time; Antioxidants; Vegetables**
413. In vitro bile acid binding of mustard greens, kale, broccoli, cabbage and green bell pepper improves with sauteing compared with raw or other methods of preparation / Kahlon, Talwinder, S., Rebecca, R.M., Chiu, M.C.M.  
*Food and Nutrition Sciences*, Volume 3, Issue 7, p. 951-958, 2012  
**Keywords: In vitro; Bile acid binding; Mustard greens; Kale; Broccoli; Cabbages; Green bell pepper; Collard greens; Sauteing; Steaming; Boiling**

## Labu Merah 2008 ScienceDirect

414. Corrigendum to “Kinetics of osmotic dehydration and air-drying of pumpkins (*Cucurbita moschata*)”  
[J. Food Eng. 82 (2007) 284–291] / Garcia, C.C., Mauro, M.A.P., Kimura, M.  
*Journal of Food Engineering*, Volume 87, Issue 3, p. 445, August 2008, ISSN 0260-8774  
**Keywords: Pumpkin; Cucurbita moschata; Osmotic dehydration; Drying**

## 2009

415. Color stability of pumpkin (*Cucurbita moschata*, Duchesne ex Poiret) puree during storage at room temperature: Effect of pH, potassium sorbate, ascorbic acid and packaging material / Gliemmo, M.F., Latorre, M.E., Gerschenson, L.N., Campos, C.A.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, p. 196-201, 2009, ISSN 0023-6438  
**Keywords: Pumpkin; Color stability; Sorbate; Ascorbic; Packaging**

## Lobak 2009 ScienceDirect

416. Vacuum drying kinetics of Asian white radish (*Raphanus sativus L.*) slices / Jun, H.L., Hui, J.K.  
*LWT - Food Science and Technology*, Volume 42, Issue 1, 2009, p. 180-186, ISSN 0023-6438  
**Keywords: Radish; Thin layer drying; Drying models; Effective diffusivity; Activation energy**

## 2010

417. Induction of superoxide anion radical scavenging capacity in Japanese white radish juice and milk by *Lactobacillus plantarum* isolated from aji-narezushi and kaburazushi / Kuda, T., Kaneko, N., Yano, T., Mori, M.  
*Food Chemistry*, Volume 120, Issue 2, p. 517-522, 15 May 2010, ISSN 0308-8146  
**Keywords: Lactobacillus plantarum; Antioxidant activity; Superoxide anion radical scavenging capacity; Japanese white radish; Fermented fish; Narezushi**

## 2011

418. Combined effects of chlorine dioxide, drying, and dry heat treatments in inactivating microorganisms on radish seeds / Bang, J., Haeyoung, K., Hoikyung, K., Beuchat, L.R., Jee-Hoon, R.  
*Food Microbiology*, Volume 28, Issue 1, p. 114-118, February 2011, ISSN 0740-0020  
**Keywords: Radish seed; Escherichia coli O157:H7; Drying; Dry heat treatment; Chlorine dioxide**
419. Optimization of purification conditions of radish (*Raphanus sativus L.*) anthocyanin-rich extracts using chitosan / Pu, J., Si-Yu, R., Ying, D., Xiao, G.Z., Jin, Y., Jian, Q.K., Slavin, M., Liangli (Lucy) Yu  
*LWT - Food Science and Technology*, Volume 44, Issue 10, p. 2097-2103, December 2011, ISSN 0023-6438  
**Keyword: Radish; Anthocyanins; Glucosinolates; Chitosan; Multi-response surface methodology; Desirability function**

## 2012

420. Characterization of a novel bacteriocin produced by *Lactobacillus sakei* LSJ618 isolated from traditional Chinese fermented radish / Jie, J., Bo, S., Deqiang, Z., Qingxia, C., Yiran, C., Jinnian, L., Kezong, Q., Ming, Z.  
*Food Control*, Volume 23, Issue 2, p. 338-344, February 2012, ISSN 0956-7135  
**Keywords: Bacteriocins; Lactobacillus sakei; Sakacin; Biopreservatives**
421. Mass transfer modeling of equilibrium and dynamic periods during osmotic dehydration of radish in NaCl solutions / Lara, E.H., Sánchez, C.E.M., Angulo, H.P., García, R.C., Espinosa, H.R., López, I.I.R.  
*Food and Bioprocess Technology*, Volume 91, Issue 3, p. 216-224, 17 October 2012, ISSN 0960-3085  
**Keywords: Diffusion; Distribution coefficient; Mass transfer; Modelling; Osmotic dehydration; Radish**

**Mentimun**  
**2009**  
**ScienceDirect**

422. Comparison of human-bite and instrument puncture tests of cucumber texture / Kohyama, K., Ai Nagata, Tamaki, Y., Sakurai, N.  
*Postharvest Biology and Technology*, Volume 52, Issue 2, p. 243-246, May 2009, ISSN 0925-5214  
**Keywords: Texture; Cucumber fruit; Temperature; Puncture test**
423. Developmentally dependent responses of detached cucumber (*Cucumis sativus L.*) fruit to exogenous ethylene / Hurr, B.M., Huber, D.J., Vallejos, C.E., Talcott, S.T.  
*Postharvest Biology and Technology*, Volume 52, Issue 2, p. 207-215, May 2009, ISSN 0925-5214  
**Keywords: Senescence; Ripening; Colour; Chlorophyll; Carotenoids; Water soaking**

**2010**

424. Features of programmed cell death precede watersoaking development in ethylene-treated immature cucumber fruit / Hurr, B.M., Huber, D.J., Vallejos, C.E.  
*Postharvest Biology and Technology*, Volume 58, Issue 1, October 2010, p. 13-20, ISSN 0925-5214  
**Keywords: Cucumber; Development; Electrolyte leakage; Maturity; Nuclease; Programmed cell death; Senescence**
425. Headspace solid-phase microextraction for the evaluation of pesticide residue contents in cucumber and strawberry after washing treatment / Kin, C.M., Huat, T.G.  
*Food Chemistry*, Volume 123, Issue 3, 1 December 2010, p. 760-764, ISSN 0308-8146  
**Keywords: HS-SPME; Pesticide residues; Washing**
426. Low-temperature storage of cucumbers induces changes in the organic acid content and in citrate synthase activity / Tsuchida, H., Kozukue, N., Han, G.P., Suk, H.C., Levin, C.E., Friedman, M.  
*Postharvest Biology and Technology*, Volume 58, Issue 2, November 2010, p. 129-134, ISSN 0925-5214  
**Keywords: Cucumbers; Chilling injury; Storage; Pyruvate accumulation; Citrate synthase; Radioactivity**

## 2011

427. Distribution center and retail conditions affect the sensory and compositional quality of bulk and packaged slicing cucumbers / Nunes, M.C.N., Emond, J.P., Dea, S., Yagiz, Y.  
*Postharvest Biology and Technology*, Volume 59, Issue 3, p. 280-288, March 2011, ISSN 0925-5214  
**Keywords: Cucumis sativus ; Colour; Chilling injury; Weight loss; Chlorophyll**

## 2012

428. Effect of yeast saccharide treatment on nitric oxide accumulation and chilling injury in cucumber fruit during cold storage / Jufang, D., Qin, Y., Li, L., Maojun, X.  
*Postharvest Biology and Technology*, Volume 68, p. 1-7, June 2012, ISSN 0925-5214  
**Keywords: Yeast saccharide (YS); Cucumber; Cucumis sativus; Chilling injury; Nitric oxide**
429. Magnetic resonance imaging and relaxometry to visualize internal freeze damage to pickling cucumber / Kotwaliwale, N., Curtis, E., Othman, S., Naganathan, G.K., Subbiah, J.  
*Postharvest Biology and Technology*, Volume 68, p. 22-31, June 2012, ISSN 0925-5214  
**Keywords: Magnetic resonance imaging; Relaxometry; Pickling cucumber; Freeze damage; Spin-spin relaxation; Spin-lattice relaxation**

## Paprika 2008 ScienceDirect

430. Description of volatile compounds generated by the degradation of carotenoids in paprika, tomato and marigold oleoresins / Rios, J.J., García, E.F., Mosquera, M.I.M., Gálvez, A.P.  
*Food Chemistry*, Volume 106, Issue 3, p. 1145-1153, 1 February 2008, ISSN 0308-8146,  
**Keywords: Thermal degradation; Carotenoids; Oleoresins; Toluene; m-Xylene; Reaction mechanisms; GC-MS; SPME**



431. Effect of infrared heating on quality and microbial decontamination in paprika powder / Staack, N., Ahrné, L., Borch, E., Knorr, D.  
*Journal of Food Engineering*, Volume 86, Issue 1, p. 17-24, May 2008, ISSN 0260-8774  
**Keywords: Infrared radiation; Water activity; Paprika powder; Colour; Bacillus cereus spores**
432. Effects of temperature, pH, and controlled water activity on inactivation of spores of *Bacillus cereus* in paprika powder by near-IR radiation/ Staack, N., Ahrné, L., Borch, E., Knorr, D.  
*Journal of Food Engineering*, Volume 89, Issue 3, p. 319-324, December 2008, ISSN 0260-8774  
**Keywords: Infrared radiation; Water activity; Paprika powder; pH; Bacillus cereus spores**
433. Novel approach for color degradation kinetics of paprika as a function of water activity / Topuz, A.  
*LWT - Food Science and Technology*, Volume 41, Issue 9, p. 1672-1677, November 2008, ISSN 0023-6438  
**Keywords: Paprika; Colour; Kinetics; Water activity**

## TEEAL

434. Description of volatile compounds generated by the degradation of carotenoids in paprika, tomato and marigold oleoresins / Jose, J.R., Elisabe, F.G., Isabe, M.M.M., Antonio, P.G.  
*Food Chemistry*, Volume 106, Issue 3, p. 1145-1153, 2008, ISSN 0308-8146  
**Keywords: Paprika; Volatile compounds; Carotenoids; Degradation**

## 2009 ScienceDirect

435. Application of carbon dioxide in subcritical state (LCO<sub>2</sub>) for extraction/fractionation of carotenoids from red paprika / Rutkowska, J., Stolyhwo, A.  
*Food Chemistry*, Volume 115, Issue 2, 15 July 2009, p. 745-752, ISSN 0308-8146  
**Keywords: Carbon dioxide; Subcritical state; Capsicum annuum; Carotenoids; Extraction; HPLC; GC**

436. Characterization of molds isolated from smoked paprika by PCR-RFLP and micellar electrokinetic capillary electrophoresis / Moyano, S.R., Benito, M.J., Martín, A., Aranda, E., Hernández, A., Córdoba, M.G.  
*Food Microbiology*, Volume 26, Issue 8, p. 776-782, December 2009, ISSN 0740-0020  
**Keywords: Molds; PCR-RFLP; ITS; Paprika; Genotype**
437. Effect of drying method and storage on color characteristics of paprika/ Topuz, A., Feng, H., Kushad, M.  
*LWT - Food Science and Technology*, Volume 42, Issue 10, p. 1667-1673, December 2009, ISSN 0023-6438  
**Keywords: Drying methods; Refractance window drying; Paprika; Capsicum annuum; Colour**

## TEEAL

438. Application of carbon dioxide in subcritical state (LCO<sub>2</sub>) for extraction/fractionation of carotenoids from red paprika / Jaroslawa, R., Andrzej, S.  
*Food Chemistry*, Volume 115, Issue 2, 2009, p. 745-752, ISSN 0308-8146  
**Keywords: Red paprika; Carotenoids; Carbon dioxide; Extraction**

## 2011 ScienceDirect

439. Carotenoid retention and storage stability of spray-dried encapsulated paprika oleoresin using gum Arabic and Soy protein isolate as wall materials / Rascón, M.P., Beristain, C.I., García, H.S., Salgado, M.A.  
*LWT - Food Science and Technology*, Volume 44, Issue 2, p. 549-557, March 2011, ISSN 0023-6438  
**Keywords: Spray drying; Carotenoid retention; Water activity; Minimum integral entropy; Degradation rate; Maximal stability**
440. Effect of postharvest treatments and storage temperatures on the quality and shelf life of sweet pepper (*Capsicum annuum L.*) / Rao, T.V.R., Gol, K., Shah, K.  
*Scientia Horticulturae*, Volume 132, p. 18-26, 5 December 2011, ISSN 0304-4238  
**Keywords: Capsicum annuum; Enzymes; Postharvest; Storage; Treatment**
441. Influence of different drying methods on carotenoids and capsaicinoids of paprika (Cv., Jalapeno) / Topuz, A., Dincer, C., Özdemir, K.S., Feng, H., Kushad, M.  
*Food Chemistry*, Volume 129, Issue 3, p. 860-865, 1 December 2011, ISSN 0308-8146  
**Keywords: Paprika; Carotenoids; Capsaicinoids; Drying Retinol activity equivalent; Scoville heat unit**

442. Variation in phenolic compounds, ascorbic acid and antioxidant activity of five coloured bell pepper (*Capsicum annuum*) fruits at two different harvest times/ Ghasemnezhad, M., Sherafati, M., Payvast, G.A.  
*Journal of Functional Foods*, Volume 3, Issue 1, p. 44-49, January 2011,ISSN 1756-4646  
**Keywords: Capsicum annuum; Harvest time; Phenolic compounds; Antioxidants**

## 2013 ScienceDirect

443. Influence of drying and cooking process on the phytochemical content, antioxidant and hypoglycaemic properties of two bell *Capsicum annuum L.* cultivars / Loizzo, M.R., Pugliese, A., Bonesi, M., De Luca, D., O'Brien, N., Menichini, F., Tundis, R.  
*Food and Chemical Toxicology*, Volume 53, p. 392-401, March 2013, ISSN 0278-6915  
**Keywords: Bell pepper; Phytochemical content; Apigenin; Food processes; Antioxidant activity; Hypoglycemic properties**

## Sayuran 2008 ProQuest

444. Physiology and handling of fruit, vegetables and ornamentals / Johnson, D.  
*Experimental Agriculture*, Volume 44, Issue 1, p. 130, Jan 2008, ISSN 00144797  
**Keywords: Vegetables; Handling; Postharvest physiology**

## ScienceDirect

445. Application of bacteriocins in vegetable food biopreservation / Settanni, L., Corsetti, A.  
*International Journal of Food Microbiology*, Volume 121, Issue 2, p. 123-138, 31 January 2008, ISSN 0168-1605  
**Keywords: Bacteriocins; Biopreservation; Food additives; Vegetable foods**
446. Availability of essential and trace elements in frozen leguminous vegetables prepared for consumption according to the method of pre-freezing processing / Lisiewska, Z., Słupski, J., Kmiecik, W., Gębczyński, P.  
*Food Chemistry*, Volume 106, Issue 2, p. 576-582, 15 January 2008, ISSN 0308-8146,  
**Keywords: Broad bean; Pea; French bean; Freezing; Cooking; Minerals**

447. Effect of cooking on Brassica vegetables / Galor, S.W., Ka, W.W., Benzie, I.F.F.  
*Food Chemistry*, Volume 110, Issue 3, p. 706-710, 1 October 2008, ISSN 0308-8146  
**Keywords: Vegetables; Antioxidants; FRAP; Cooking**
448. Effect of water cooking on free phytosterol levels in beans and vegetables / Kaloustian, J., Alhanout, K., Amiot, C.M.J., Lairon, D., Portugal, H., Nicolay, A.  
*Food Chemistry*, Volume 107, Issue 4, p. 1379-1386, 15 April 2008, ISSN 0308-8146  
**Keywords: Cardiovascular diseases; Cooking; Free phytosterol determination; GC; Plant products;Vegetables**
449. Efficacy of neutral electrolyzed water (NEW) for reducing microbial contamination on minimally-processed vegetables / Abadias, M., Usall, J., Oliveira, M., Alegre, I., Viñas, I.  
*International Journal of Food Microbiology*, Volume 123, Issues 1–2, p. 151-158, 31 March 2008, ISSN 0168-1605  
**Keywords: Disinfection; Fresh-cut vegetables; Listeria; Salmonella; Erwinia carotovora**
450. Microbiological quality of fresh, minimally-processed fruit and vegetables, and sprouts from retail establishments / Abadias, M., Usall, J., Anguera, M., Solsona, C., Viñas, I.  
*International Journal of Food Microbiology*, Volume 123, Issues 1–2, p. 121-129, 31 March 2008, ISSN 0168-1605  
**Keywords: Incidence; Foodborne pathogens; Fresh-cut; Ready to eat; Salmonella; Escherichia coli ; Monocytogenes; Campylobacter; Y. enterocolitica**
451. Nitrate-N determination in leafy vegetables: Study of the effects of cooking and freezing / Prasad, S., Chetty, A.A.  
*Food Chemistry*, Volume 106, Issue 2, p. 772-780, 15 January 2008, ISSN 0308-8146,  
**Keywords: Nitrates; Nitrate in vegetables; Leafy vegetables; Flow injection analysis; Leafy vegetables; Fiji**
452. Vacuum frying of high-quality fruit and vegetable-based snacks / Da Silva, P.F., Moreira, R.G.  
*LWT - Food Science and Technology*, Volume 41, Issue 10, p. 1758-1767, December 2008, ISSN 0023-6438  
**Keywords: Vacuum frying; Fruits; Vegetables; Oil content; Vitamins; Sensory**

## 2009 ProQuest

453. Comparative study of phenolic compounds and antioxidant and antiproliferative activities in frequently consumed raw vegetables / Gorinstein, S., Park, Y., Heo, B., Namiesnik, J., Leontowicz, H., Leontowicz, M., Ham, K., Cho, J., Kang, S.  
*European Food Research and Technology*, Volume 228, Issue 6, p. 903-911, Apr 2009, ISSN 1438-2377  
**Keywords: Comparative analysis; Antioxidants; Phenolics; Vegetables**
454. Freshness of fruits and vegetables: consumer language and perception / Péneau, S., Linke, A., Escher, F. Nuessli, J.  
*British Food Journal*, Volume 111, Issue 3, p. 243-256, 2009, ISSN 0007070X  
**Keywords: Customer satisfaction; Perceptions; Fruits; Vegetables; Quality control**

## ScienceDirect

455. Analysis of synthetic antioxidants and preservatives in edible vegetable oil by HPLC/TOF-MS / Li, X.Q., Ji, C., Sun, Y.Y., Yang, M.L., Chu, X.G.  
*Food Chemistry*, Volume 113, Issue 2, p. 692-700, 15 March 2009, ISSN 0308-8146  
**Keywords: Synthetic antioxidants; Synthetic preservatives; Edible vegetable oil; HPLC/TOF-MS**
456. Antioxidant capacity and polyphenol content of organic and conventional retail vegetables after domestic cooking / Faller, A.L.K., Fialho, E.  
*Food Research International*, Volume 42, Issue 1, p. 210-215, January 2009, ISSN 0963-9969  
**Keywords: Polyphenols; Antioxidant capacity; Organic; Vegetables; Cooking**
457. Cutting test application to general assessment of vegetable texture changes caused by freezing / Góral, D., Kluza, F.  
*Journal of Food Engineering*, Volume 95, Issue 2, p. 346-351, November 2009, ISSN 0260-8774  
**Keywords: Cutting test; Elasticity; Freezing; Vegetable quality**
458. Effect of high-pressure/high-temperature processing on chemical pectin conversions in relation to fruit and vegetable texture / De Roeck, A., Duvetter, T., Fraeye, I., van der Plancken, I., Sila, D.N., Van Loey, A., Hendrickx, M.  
*Food Chemistry*, Volume 115, Issue 1, p. 207-213, 1 July 2009, ISSN 0308-8146  
**Keywords: Pectin; Texture; Demethoxylation;  $\beta$ -elimination; High-pressure sterilization**

459. Effects of peracetic acid disinfectant on the postharvest of some fresh vegetables / Alvaro, J.E., Moreno, S., Diane, F., Santos, M., Carrasco, G., Urrestarazu, M. *Journal of Food Engineering*, Volume 95, Issue 1, p. 11-15, November 2009, ISSN 0260-8774  
**Keywords: Shelf life; Sodium hypochlorite; Health safety; Tomato; Sweet pepper; Cucumber; Ecotoxicity ; Vegetables; Rhizopus stolonifer**
460. Functional properties of lactic acid bacteria isolated from ethnic fermented vegetables of the Himalayas / Tamang, J.P., Tamang, B., Schillinger, U., Guigas, C., Holzappel, W.H. *International Journal of Food Microbiology*, Volume 135, Issue 1, p. 28-33, 30 September 2009, ISSN 0168-1605  
**Keywords: Functional properties; LAB; Fermented vegetables; Himalayas**
461. Mycoflora and occurrence of aflatoxin in dried vegetables in Benin, Mali and Togo, West Africa / Hell, K., Gnonlonfin, B.G.J., Kodjogbe, G., Lamboni, Y., Abdourhamane, I.K. *International Journal of Food Microbiology*, Volume 135, Issue 2, p. 99-104, 31 October 2009, ISSN 0168-1605  
**Keywords: Dried vegetable products; Natural contamination; Fungi; Mycotoxins; West Africa**
462. Vegetables antioxidant losses during industrial processing and refrigerated storage / Ma Antonia Murcia, Antonia Ma Jiménez, M.M. Tomé *Food Research International*, Volume 42, Issue 8, p. 1046-1052, October 2009, ISSN 0963-9969  
**Keywords: Fresh vegetables; Antioxidant activity; Free radicals; Storage; Refrigerated; Frozen and canned**

## 2010 GREENR

463. Feasibility and economic evaluation of low-cost evaporative cooling system in fruit and vegetables storage / Tilahun, S.W. *African Journal of Food, Agriculture, Nutrition and Development*, Volume 10, Issue 8, p. 2984-2997, 2010, ISSN 1654-5374  
**Keywords: Cooling; Fruits; Vegetables; Feasibility; Storage**

## ProQuest

464. Antioxidant contents of pre-packed fresh-cut versus whole fruit and vegetables/ Opara, U.L., Al-Ani, M.R. *British Food Journal*, Volume 112, Issue 8, p. 797-810, 2010, ISSN 0007070X  
**Keywords: Fruits; Vegetables; Vitamins; Antioxidants; Food processing industry; Statistical analysis**

465. Preparation and evaluation of sauces from lactic acid fermented vegetables / Joshi, V.K.; Somesh, S.  
*Journal of Food Science and Technology*, Volume 47, Issue 2, p. 214-218, Mar 2010, ISSN 00221155  
**Keywords: Lactic acids; Fermentation; Vegetables; Food preservation**

## ScienceDirect

466. Climate changes and potential impacts on postharvest quality of fruit and vegetable crops: A review / Moretti, C.L., Mattos, L.M., Calbo, A.G., Sargent, S.A.  
*Food Research International*, Volume 43, Issue 7, August 2010, p. 1824-1832, ISSN 0963-9969  
**Keywords: Global warming; Carbon dioxide; Air temperature; Ozone; Firmness; Sugars; Photosynthesis**
467. Effect of pretreatment on surface topographical features of vegetables during drying / Chiewchan, N., Praphraiphetch, C., Devahastin, S.  
*Journal of Food Engineering*, Volume 101, Issue 1, November 2010, p. 41-48, ISSN 0260-8774  
**Keywords: Acid pretreatment; Blanching; Cabbages; Hot air drying; Image analysis; Relative roughness factor; Shrinkage; Spring onion**
468. Effects of cooking on the profile and micellarization of 9-cis-, 13-cis- and all-trans- $\beta$ -carotene in green vegetables / O'Sullivan, L., Galvin, K., Aherne, S.A., O'Brien, N.M.  
*Food Research International*, Volume 43, Issue 4, May 2010, p. 1130-1135, ISSN 0963-9969  
**Keywords: In vitro digestion; Micellarization;  $\beta$ -carotene isomers; Green vegetables**
469. Infusion of grape phenolics into fruits and vegetables by osmotic treatment: Phenolic stability during air drying / Rózek, A., Pérez, J.V.G., F. López, C. Güell, M. Ferrando  
*Journal of Food Engineering*, Volume 99, Issue 2, July 2010, p. 142-150, ISSN 0260-8774  
**Keywords: Apple; Banana; Potato; Osmotic dehydration; Antioxidant capacity; Air drying; Phenolics; Polyphenols; Grape**
470. Microstructure, texture, colour and sensory evaluation of a spreadable processed cheese analogue made with vegetable fat / Cunha, C.R., Dias, A.I., Viotto, W.H.  
*Food Research International*, Volume 43, Issue 3, April 2010, p. 723-729, ISSN 0963-9969  
**Keywords: Cheese analogue; Microstructure; Texture; Vegetable fat; Sensory analysis**

471. Oxidative stability of olive oil and its polyphenolic compounds after boiling vegetable process / Silva, L., Garcia, B., Martins, F.P.  
*LWT - Food Science and Technology*, Volume 43, Issue 9, November 2010, p. 1336-1344, ISSN 0023-6438  
**Keywords: Olive oil; Boiling process; Polyphenols; Tocopherols; Soup**
472. Studies on the usefulness of Cucurbita maxima for the production of ready-to-eat dried vegetable snacks with a high carotenoid content / Konopacka, D., Seroczyńska, A., Korzeniewska, A., Jesionkowska, K., Szczytt, K.N., Plochanski, W.  
*LWT - Food Science and Technology*, Volume 43, Issue 2, March 2010, p. 302-309, ISSN 0023-6438  
**Keywords: Winter squash; Drying; Novel product; Sensory assessment;  $\beta$ -carotenoids**

## 2011 GREENR

473. Edible packaging: fruit and vegetable wraps preserve foods, add nutrition / McHugh, T.H.  
*Resource: Engineering & Technology for a Sustainable World*, Volume 8, Issue 11, p. 7-8, Nov 2011, ISSN  
**Keywords: Fruits; Vegetables; Packaging; Preserved foods**

## ProQuest

474. Determination of flavonoids in eruca and diplotaxis rocket salad species: mekc-dad method establishment and comparison With Hplc-Dad-Ms / Verardo, V., Riciputi, Y., Pasini, F., D'Antuono, L.F., Caboni, M.F.  
*Italian Journal of Food Science*, Volume 23, Issue 4, p. 352-359, 2011, ISSN: 11201770  
**Keywords: Rocket salad; Flavonoids; Determination**
475. Determination of major carotenoids in processed tropical leafy vegetables indigenous to Africa / Djuikwo, V.N., Ejoh, R.A., Gouado, I., Mbofung, C.M., Tanumihardjo, S.A.  
*Food and Nutrition Sciences*, Volume 2, Issue 8, p. 793-802, October 2011, ISSN 2157944X  
**Keywords: Vegetables; Vitamin A; Carotenoids**
476. Survey on some food plants as sources of antioxidants / Aberoumand, A.  
*Innovative Romanian Food Biotechnology*, Volume 8, p. 22-25, Maret 2011, ISSN: 1843-6099  
**Keywords: Antioxidants; Nutrition; Vegetables; Fruits; Statistical analysis**



## ScienceDirect

477. Combined application of essential oils from *Origanum vulgare L.* and *Rosmarinus officinalis L.* to inhibit bacteria and autochthonous microflora associated with minimally processed vegetables / de Azeredo, G.A., Stamford, T.L.M., Nunes, P.C., Neto, N.J.G., de Oliveira, M.E.G., de Souza, E.L.  
*Food Research International*, Volume 44, Issue 5, p. 1541-1548, June 2011, ISSN 0963-9969  
**Keywords: Minimally processed foods; Essential oils; Combined application; Antibacterial property**
478. Effect of expansion by instantaneous controlled pressure drop on dielectric properties of fruits and vegetables / Kristiawan, M., Sobolik, V., Klíma, L., Allaf, K.  
*Journal of Food Engineering*, Volume 102, Issue 4, p. 361-368, February 2011, ISSN 0260-8774  
**Keywords: Microwave; Dielectric properties; Swell drying; Penetration depths; DIC; Coaxial probe**
479. Effect of two cooking procedures on phytochemical compounds, total antioxidant capacity and colour of selected frozen vegetables / Mazzeo, T., N'Dri, D., Chiavaro, E., Visconti, A., Fogliano, V., Pellegrini, N.  
*Food Chemistry*, Volume 128, Issue 3, p. 627-633, 1 October 2011, ISSN 0308-8146  
**Keywords: Frozen vegetables; Boiling; Steaming; Phytochemical compounds; Total antioxidant capacity; Colour**
480. Factors influencing levels of phytochemicals in selected fruit and vegetables during pre- and post-harvest food processing operations / Tiwari, U., Cummins, E.  
*Food Research International*, ISSN 0963-9969, 17 September 2011  
**Keywords: Pre-harvest; Postharvest; Food processing; Storage**
481. Improvement of heating uniformity in packaged acidified vegetables pasteurized with a 915 MHz continuous microwave system / Koskiniemi, C.B., Den Truong, J.S., McFeeters, R.F.  
*Journal of Food Engineering*, Volume 105, Issue 1, p. 149-160, July 2011, ISSN 0260-8774  
**Keywords: Heating uniformity; Continuous microwave processing; Penetration depths; Pasteurization; Acidified vegetables**
482. pH reduction and vegetable tissue structure changes of zucchini slices during pulsed vacuum acidification / Derossi, A., De Pilli, T., La Penna, M.P., Severini, C.  
*LWT - Food Science and Technology*, Volume 44, Issue 9, p. 1901-1907, November 2011, ISSN 0023-6438  
**Keywords: Vacuum impregnation; Zucchini; Porosity; Acid solution; Canned food**

483. Physical and antimicrobial properties of banana flour/chitosan biodegradable and self sealing films used for preserving Fresh-cut vegetables / Pitak, N., Rakshit, S.K.  
*LWT - Food Science and Technology*, Volume 44, Issue 10, p. 2310-2315, December 2011, ISSN 0023-6438  
**Keywords: Banana flour; Chitosan; Biodegradable; Sealable films**
484. Well balanced omega-6/omega-3 ratio in developing flax bolls after heating and its implications for use as a fresh vegetable by humans / Fofana, B., Cloutier, S., Kirby, C.W., McCallum, J., Duguid, S.  
*Food Research International*, Volume 44, Issue 8, p. 2459-2464, October 2011, ISSN 0963-9969  
**Keywords: Flax; Lipid hydroperoxide; Cyanogenic glucosides; Developing bolls; Days after anthesis; NMR**

## 2012 GREENR

485. Integration of an objective approach focused on the consumer to evaluate the quality of processed Brussels sprouts / Olivera, D.F., Vina, S.Z., Ferreyra, R.M., Mugriyk, A., Mascheroni, R.H., Chaves, A.R.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 1011-1017, 2011  
**Keywords: Frozen vegetables; Brassica oleracea ; Gemmifera; Quality attributes; Quality perception**

## ProQuest

486. Prospects of UV radiation for application in postharvest technology / Ribeiro, C., Canada, J., Alvarenga, B.  
*Emirates Journal of Food and Agriculture*, Volume 24, Issue 6, p. 586-597, Dec 2012, ISSN: 10211357  
**Keywords: Fruits; Ultraviolet radiation; Microorganisms; Vegetables; Light; Chlorophyll**
487. Risk factors for microbial contamination in fruits and vegetables at the preharvest level: a systematic review / Park, S., Szonyi, B., Gautam, R., Nightingale, K., Anciso, J., Ivanek, R.  
*Journal of Food Protection*, Volume 75, Issue 11, p. 2055-2081, Nov 2012, ISSN 0362-028X  
**Keywords: Risk factors; Vegetables; Fruits; Food contamination; Food poisoning; Bacteria; Food safety**

## ScienceDirect

488. Accelerated texture softening of some root vegetables by Ohmic heating / Farahnaky, A., Azizi, R., Gavahian, M.  
*Journal of Food Engineering*, Volume 113, Issue 2, p. 275-280, November 2012, ISSN 0260-8774  
**Keywords: Texture; Ohmic heating; Microwave; Conventional heating**
489. Biological hazards in processed fruits and vegetables – Risk factors and impact of processing techniques / Nguyen, C.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 172-177, December 2012, ISSN 0023-6438  
**Keywords: Food safety; Virus; Bacillus; Clostridium; Salmonella; Escherichia coli**
490. Effects of Chinese domestic cooking methods on the carotenoid composition of vegetables in Taiwan / Fuh, J.K., Yu, S.C., May, J.T., Wen, D.C.  
*LWT - Food Science and Technology*, Volume 46, Issue 2, p. 485-492, May 2012, ISSN 0023-6438  
**Keywords: Lutein; Zeaxanthin;  $\beta$ -carotenoids; Domestic cooking; Transcisisomers**
491. Effects of palm oil quality and packaging on the storage stability of dry vegetable bouillon paste / Raitio, R., Orlien, V., Skibsted, L.H.  
*Food Chemistry*, Volume 132, Issue 3, p. 1324-1332, 1 June 2012, ISSN 0308-8146  
**Keywords: Storage stability; Modified atmosphere packaging; ESR spectroscopy; Maillard reaction; Lipid oxidation**
492. Effects of processing on anthocyanins, carotenoids and vitamin C in summer fruits and vegetables/ Sze, Y.L., Indrawati, O.  
*Food Chemistry*, Volume 133, Issue 4, p. 1577-1587, 15 August 2012, ISSN 0308-8146  
**Keywords: New Zealand; Anthocyanins; Carotenoids; Vitamin C; Processing; Stability**
493. Growth potential of *Salmonella spp.* and *Listeria monocytogenes* in nine types of ready-to-eat vegetables stored at variable temperature conditions during shelf-life / Sant'Ana, A.S., Barbosa, M.S., Destro, M.T., Landgraf, M., Franco, B.D.G.M.  
*International Journal of Food Microbiology*, Volume 157, Issue 1, p. 52-58, 15 June 2012, ISSN 0168-1605  
**Keywords: Salmonella; Listeria monocytogenes; Ready-to-eat vegetables; Challenge testing; Growth potential**

494. Inclusion of the variability of model parameters on shelf-life estimations for low and intermediate moisture vegetables / Avellaneda, Z.E., Velazquez, G., Torres, J.A., Chanes, J.W.  
*LWT - Food Science and Technology*, Volume 47, Issue 2, p. 364-370, July 2012, ISSN 0023-6438  
**Keywords: Moisture sorption isotherms; G.A.B. model parameters; Water activity; Shelf life; Monte Carlo simulations**
495. Influence of preparation method on the hedonic response of preschoolers to raw, boiled or oven-baked vegetables / Donadini, G., Fumi, M.D., Porretta, S.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 282-292, December 2012, ISSN 0023-6438  
**Keywords: Vegetable liking; Children; Preschoolers; Preparation method; Drivers of liking**
496. Italian case study for the Process-Target-Cost evaluation of the ohmic treatment and aseptic packaging of a vegetable soup (minestrone) / Bertolini, M., Romagnoli, G.  
*Journal of Food Engineering*, Volume 110, Issue 2, p. 214-219, May 2012, ISSN 0260-8774  
**Keywords: Ohmic heating; Frozen product; Process target cost; Vegetable soup; Minestrone; Case study**
497. Modelling the fate of glucosinolates during thermal processing of Brassica vegetables / Sarvan, I., Verkerk, R., Dekker, M.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 178-183, December 2012, ISSN 0023-6438  
**Keywords: Mathematical model; Degradation; Health effects; Mechanistic model; Food model**
498. Synergies of carvacrol and 1,8-cineole to inhibit bacteria associated with minimally processed vegetables / de Sousa, J.P., de Azerêdo, G.A., de Araújo Torres, R., da Silva Vasconcelos, M.A., da Conceição, M.L., de Souza, E.L.  
*International Journal of Food Microbiology*, Volume 154, Issue 3, p. 145-151, 15 March 2012, ISSN 0168-1605  
**Keywords: Minimally processed vegetables; Phytochemicals; Combined application; Antibacterial efficacy**
499. Thermophysical properties and thermal behavior of leafy vegetables packaged in clamshells / Quirion, S.B., Villeneuve, S., LeBlanc, D.I., Delaquis, P.  
*Journal of Food Engineering*, Volume 113, Issue 1, p. 27-32, November 2012, ISSN 0260-8774  
**Keywords: Leafy vegetables; Thermophysical properties; Heat transfer; Density; Thermal conductivity; Specific heat**

**2013**  
**ScienceDirect**

500. Canning of vegetable-type soybean in acidified brine: Effect of the addition of sucrose and pasteurisation time on color and other characteristics / Czaikoski, K., Leite, R.S., Mandarino, J.M.G., Panizzi, M.C.C., da Silva, J.B., Ida, E.I.  
*Industrial Crops and Products*, Volume 45, p. 472-476, February 2013, ISSN 0926-6690  
**Keywords: Grains; Vegetables; Soybean; Canning; Thermal processing; Sucrose; Hardness; Colour**
501. Condensation dynamics in plastic film packaging of fruit and vegetables / Linke, M., Geyer, M.  
*Journal of Food Engineering*, Volume 116, Issue 1, p. 144-154, May 2013, ISSN 0260-8774  
**Keywords: Fruits; Plum; Modified atmosphere packaging; Temperature; Fluctuation; Dew point; Air humidity measurements; Condensation retention time; Condensation intensity**
502. Description of the lactic acid bacteria microbiota associated with the production of traditional fermented vegetables in Vietnam / Nguyen, T.L.D., Van Hoorde, K., Cnockaert, M., De Brandt, E., Maarten, A., Le Thanh, B., Vandamme, P.  
*International Journal of Food Microbiology*, 4 February 2013, ISSN 0168-1605  
**Keywords: Fermented vegetables; Lactic acid bacteria; Diversity; MALDI-TOF MS; PheS gene; DGGE**
503. Effects of industrial processing on folate content in green vegetables / Delchier, N., Ringling, C., Le Grandois, J., Werner, D.A., Galland, R., Georgé, S., Rychlik, M., Renard  
*Food Chemistry*, 8 February 2013, ISSN 0308-8146  
**Keywords: Vitamins; Blanching; Heating; Freezing; Leaching; Sterilisation; Green beans; Spinach**
504. Enantioselective hydrolysis of racemic 1-phenylethyl acetate by an enzymatic system from fresh vegetables / A. Vandenberghe, I.E. Markó, F. Lucaccioni, S. Lutts  
*Industrial Crops and Products*, Volume 42, p. 380-385, March 2013, ISSN 0926-6690  
**Keywords: Biotransformation; Kinetic resolution; Enantioselectivity; Vegetables; Red beet root**
505. Numerical analysis of drying kinetics for shrinkable products such as fruits and vegetables / Kowalski, S.J., Mierzwa, D.  
*Journal of Food Engineering*, Volume 114, Issue 4, p. 522-529, February 2013, ISSN 0260-8774  
**Keywords: Drying; Modelling; Kinetics; Experimental validation; Energy consumption; Vegetables**

506. Products of vegetable origin: A new alternative for the consumption of probiotic bacteria / Martins, E.M.F., Ramos, A.M., Vanzela, E.S.L., Stringheta, P.C., de Oliveira Pinto, C.L., Martins, J.M.  
*Food Research International*, 28 January 2013, ISSN 0963-9969  
**Keywords: Functional food; Fruits; Vegetables; Cereal; Non-dairy probiotic products**

## Selada 2008 ScienceDirect

507. Effect of various inhibitors on enzymatic browning, antioxidant activity and total phenol content of fresh lettuce (*Lactuca sativa*) / Altunkaya, A., Gökmen, V.  
*Food Chemistry*, Volume 107, Issue 3, p. 1173-1179, 1 April 2008, ISSN 0308-8146  
**Keywords: Lettuce; Polyphenol oxidase; Inhibitors; Antioxidant activity**

## TEEAL

508. Browning on the surface of cut lettuce slices inhibited by short term exposure to nitric oxide (NO) / Wills, R.B.H., Pristijono, P., Golding, J.B.  
*Food Chemistry*, 2008, Volume 107, Issue 4, p. 1387-1392, ISSN 0308-8146  
**Keywords: Lettuce; Nitric oxide; Browning**
509. Inactivation of MS2 F(+) coliphage on lettuce by a combination of UV light and hydrogen peroxide / Xie, Y., Hajdok, C., Mittal, G.S., Warriner, K.  
*Journal of Food Protection*, Volume 71, Issue 5, p. 903-907, 2008, ISSN 0362-028X  
**Keywords: Radiation biology; Lettuce, Hydrogen peroxide; UV light**

## 2009 ProQuest

510. Efficacy of antimicrobial agents in lettuce leaf processing water for control of *Escherichia coli* O157:H7 / Zhang, G., Ma, L., Phelan, V.H., Doyle, M.P.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1392-1397, Juli 2009, ISSN 0362-028X  
**Keywords: Lettuce; Vegetables; Escherichia coli; Antimicrobial agents; Food safety**

511. Impact of preinoculation culture conditions on the behavior of *Escherichia coli* O157:h7 inoculated onto romaine lettuce (*Lactuca sativa*) plants and cut leaf surfaces / Theofel, C.G., Harris, L.J.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1553-1559, Jul 2009, ISSN 0362-028X  
**Keywords: Vegetables; Immunization; Food safety**
512. Inactivation of *Escherichia coli* O157:H7 on the intact and damaged portions of lettuce and spinach leaves by using Allyl Isothiocyanate, Carvacrol, and Cinnamaldehyde in Vapor Phase / Obaidat, M.M., Frank, J.F.  
*Journal of Food Protection*, Volume 72, Issue 10, p. 2046-2055, October 2009, ISSN 0362-028X  
**Keywords: Escherichia coli; Lettuce; Vegetables; Antimicrobial agents; Food safety**
513. Microbial antagonists of *Escherichia coli* O157:H7 on fresh-cut lettuce and spinach / Johnston, M.A., Harrison, M.A., Morrow, R.A.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1569-1575, Jul 2009, ISSN 0362-028X  
**Keywords: Escherichia coli; Vegetables; Farmers markets; Food safety**
514. Use of the systems approach to determine the fate of *Escherichia coli* O157:H7 on fresh lettuce and spinach / Doering, H.J., Harrison, M.A., Morrow, R.A., Hurst, W.C., Kerr, W.L.  
*Journal of Food Protection*, Volume 72, Issue 7, p. 1560-1568, Jul 2009, ISSN 0362-028X  
**Keywords: Escherichia coli; Vegetables; Food safety; Food contamination; Food poisoning; Food processing industry**

## 2010 ProQuest

515. Behavior of *Escherichia coli* O157:H7 on damaged leaves of spinach, lettuce, cilantro, and parsley stored at abusive temperatures / Khalil, R.K., Frank, J.F.  
*Journal of Food Protection*, Volume 73, Issue 2, p. 212-220, Feb 2010, ISSN: 0362-028X  
**Keywords: Leaves; Vegetables; Escherichia coli; Temperature; Bacteriology; Bacterial infections; Storage**

516. Inactivation of *Escherichia coli* O157:H7 on lettuce, using low-energy X-ray irradiation / Jeong, S., Marks, B.P., Ryser, E.T., Moosekian, S.R.  
*Journal of Food Protection*, Volume 73, Issue 3, p. 547-5451, Mar 2010, ISSN 0362-028X  
**Keywords: Escherichia coli; Lettuce; Food irradiation; X rays; Temperature**

## ScienceDirect

517. Effects of aqueous chlorine dioxide treatment on enzymatic browning and shelf-life of fresh-cut asparagus lettuce (*Lactuca sativa L.*) / Zhao, C., Chuanhe, Z., Yan, Z., Debao, N., Jinhua, D.  
*Postharvest Biology and Technology*, Volume 58, Issue 3, December 2010, p. 232-238, ISSN 0925-5214  
**Keywords: Chlorine dioxide; Fresh-cut; Asparagus; Lettuce; Lactuca sativa; Enzymatic browning; Shelf life**
518. Salinity effects on enzymatic browning and antioxidant capacity of fresh-cut baby Romaine lettuce (*Lactuca sativa L. cv. Duende*) / Chisari, M., Todaro, A., Barbagallo, R.N., Spagna, G.  
*Food Chemistry*, Volume 119, Issue 4, 15 April 2010, p. 1502-1506, ISSN 0308-8146  
**Keywords: Browning; Polyphenol oxidase; Peroxidase; Baby lettuce; Hydric stress; ORAC**

## TEEAL

519. Inactivation of *Escherichia coli* O157:H7 on lettuce, using low-energy X-ray irradiation /  
Jeong, S., Marks, B.P., Ryser, E.T., Moosekian, S.R.  
*Journal of Food Protection*, Volume 73, Issue 3, p. 547-551, 2010, ISSN 0362-028X  
**Descriptors: Infection; Epidemiology; Lettuce; X-ray irradiation; Escherichia coli**
520. Salinity effects on enzymatic browning and antioxidant capacity of fresh-cut baby Romaine lettuce (*Lactuca sativa L. cv. Duende*) / Marco, C., Ald, T., Barbagallo, R.N., Giovann, S.  
*Food Chemistry*, 2010, Volume 119, Issue 4, p. 1502-1506, ISSN 0308-8146  
**Keywords: Lactuca sativa; Salinity effect; Enzymatic browning; Antioxidant capacity**



521. Surface morphology and chemical composition of lamb's lettuce (*Valerianella locusta*) after exposure to a low-pressure oxygen plasma / Franziska, G., Sasch, R., Kroh, L.W., Geyer, M., Schlueter, O.  
*Food Chemistry*, Volume 122, Issue 4, p. 1145-1152, 2010, ISSN 0308-8146  
**Keywords: Chemical composition; Lettuce; Surface morphology; Driving voltage; Low-pressure oxygen; Successive degradation**
522. Textural and compositional changes of stored iceberg lettuce in relation to harvest season and storage condition / Dulal, C., Matsui, T., Suzuki, H., Kosugi, Y., Fujimura, K., Bhowmik, P.K. *International Journal of Vegetable Science*, Volume 16, Issue 1, p. 44-59, 2010, ISSN 1931-5260  
**Keywords: Lactuca sativa; Crop quality; Harvesting date; Lettuce; Organic salts; Storage life; Storage quality; Sugar content**

## 2011 ProQuest

523. Comparison between hydroponically and conventionally and organically grown lettuces for taste, odor, visual quality and texture: a pilot study / Murphy, M.T., Zhang, F., Nakamura, Y.K., Omaye, S.T.,  
*Food and Nutrition Sciences*, Volume 2, Issue 2, p. 124-127, Apr 2011, ISSN 2157944X  
**Keywords: Sensory perception; Temperature; Hydroponics; Bias; Quality; Vegetables; Fruits; Light**
524. Effect of modified atmosphere packaging on the persistence and expression of virulence factors of *Escherichia coli* O157:H7 on Shredded Iceberg Lettuce[dagger] / Sharma, M., Lakshman, S., Ferguson, S., Ingram, D.T., Luo, Y., Patel, J.  
*Journal of Food Protection*, Volume 74, Issue 5, p. 718-726, May 2011, ISSN 0362-028X  
**Keywords: Escherichia coli; Lettuce; Food contamination; Food poisoning; Epidemics; Modified atmosphere packaging; Food safety**
525. Efficacy of a novel sanitizer composed of lactic acid and peroxyacetic acid against single strains of nonpathogenic *Escherichia coli* K-12, *Listeria innocua*, and *Lactobacillus plantarum* in aqueous solution and on surfaces of romaine lettuce and spinach / Ho, K.G., Luzuriaga, D.A., Rodde, K.M., Tang, S., Phan, C.  
*Journal of Food Protection*, Volume 74, Issue 9, p. 1468-1474, Sep 2011, ISSN: 0362-028X  
**Keywords: Lettuce; Spinach; Food processing industry; Food safety; Food contamination; Food poisoning; Aqueous solutions; Escherichia coli**

526. Ozone inactivation of norovirus surrogates on fresh produce / Hirneisen, K.A., Markland, S.M., Kniel, K.E.  
*Journal of Food Protection*, Volume 74, Issue 5, p. 836-839, May 2011, ISSN: 0362-028X  
**Keywords: Food contamination; Food poisoning; Local products; Crohns disease; Ozone; Pathogens; Food science**
527. Purification and characterization of polyphenol oxidase, peroxidase and lipoxygenase from freshly cut lettuce (*L. sativa*) / Altunkaya, A., Gökmen, V.  
*Food Technology and Biotechnology*, Volume 49, Issue 2, p. 249-256, 2011, ISSN 13309862  
**Keywords: Lettuce; Enzymes; Nutrition; Polyphenols; Copper; Purification**

## ScienceDirect

528. Effect of cutting direction on aroma compounds and respiration rate of fresh-cut iceberg lettuce (*Lactuca sativa* L.) / Durand, K.M.D., Petersen, M.A.  
*Postharvest Biology and Technology*, Volume 61, Issue 1, p. 83-90, July 2011, ISSN 0925-5214  
**Keywords: Method of preparation; Fresh-cut; Lettuce; Cutting direction; Aroma compounds; Respiration rate**
529. Effect of whey protein concentrate on phenolic profile and browning of fresh-cut lettuce (*Lactuca Sativa*) / Altunkaya, A.  
*Food Chemistry*, Volume 128, Issue 3, p. 754-760, 1 October 2011, ISSN 0308-8146  
**Keywords: Whey protein concentrate; Polyphenol oxidase; Lettuce; Lactuca sativa; Dissolved oxygen; Phenolic compounds**

## 2012 ProQuest

530. Sanitation and design of lettuce coring knives for minimizing *Escherichia coli* o157:h7 contamination / Zhou, B., Luo, Y., Millner, P., Feng, H.  
*Journal of Food Protection*, Volume 75, Issue 3, p. 563-566, Mar 2012, ISSN 0362-028X  
**Keywords: Sanitation; Knives; Lettuce; Escherichia coli; Food contamination; Food poisoning**

## ScienceDirect

531. Long-term deficit and excess of irrigation influences quality and browning related enzymes and phenolic metabolism of fresh-cut iceberg lettuce (*Lactuca sativa L.*) / Luna, M.C., Tudela, J.A., Sánchez, A.M., Allende, A., Marín, A., Gil, M.I.  
*Postharvest Biology and Technology*, Volume 73, p. 37-45, November 2012, ISSN 0925-5214  
**Keywords: Minimally processed; Preharvest factors; Postharvest; Browning; PAL; PPO; POD; Phytochemicals**
532. Sensory quality, bioactive constituents and microbiological quality of green and red fresh-cut lettuces (*Lactuca sativa L.*) are influenced by soil and soilless agricultural production systems / Selma, M.V., Luna, M.C., Sánchez, A.M., Tudela, J.A., Beltrán, D., Baixauli, C., Gil, M.I.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 16-24, January 2012, ISSN 0925-5214  
**Keywords: Minimally processed; Open field; Hydroponics; Phytochemicals; Vitamin C; Phenolics**

## 2013 ScienceDirect

533. Evaluation of ozone efficacy on the reduction of microbial population of fresh cut lettuce (*Lactuca sativa*) and green bell pepper (*Capsicum annuum*) / Alexopoulos, A., Plessas, S., Ceciu, S., Lazar, V., Mantzourani, I., Voidarou, C., Stavropoulou, E., Bezirtzoglou, E.  
*Food Control*, Volume 30, Issue 2, p. 491-496, April 2013, ISSN 0956-7135  
**Keywords: Ozone sanitation; Lettuce; Bell pepper; Coliforms; Yeasts; Weibull model**
534. Light exposure during storage preserving soluble sugar and l-ascorbic acid content of minimally processed romaine lettuce (*Lactuca sativa L. var. longifolia*) / Lijuan, Z., Jinqiang, H., Zhilu, A., Lingyun, P., Yu, L., Meiyun, Z.  
*Food Chemistry*, Volume 136, Issue 1, p. 273-278, 1 January 2013, ISSN 0308-8146  
**Keywords: Romaine lettuce; Soluble sugar; Light exposure; L-ascorbic acid; Quality**

**Terung  
2011  
ScienceDirect**

535. 1-Methylcyclopropene (1-MCP) delays senescence, maintains quality and reduces browning of non-climacteric eggplant (*Solanum melongena L.*) fruit / Massolo, J.F., Concellón, A., Chaves, A.R., Vicente, A.R.  
*Postharvest Biology and Technology*, Volume 59, Issue 1, p. 10-15, January 2011, ISSN 0925-5214  
**Keywords: Ethylene; Storage; Refrigeration; Polyphenol oxidase; Phenylalanine ammonia-lyase; Phenolics**

**2012**

536. Changes in quality and phenolic antioxidants in dark purple American eggplant (*Solanum melongena L.* cv. Lucía) as affected by storage at 0°C and 10°C / Concellón, A., Zaro, M.J., Chaves, A.R., Vicente, A.R.  
*Postharvest Biology and Technology*, Volume 66, p. 35-41, April 2012, ISSN 0925-5214  
**Keywords: Refrigeration; Postharvest; Chilling; Chlorogenic acid; Browning**
537. Moisture loss kinetics and microstructural changes in eggplant (*Solanum melongena L.*) during conventional and ultrasonically assisted convective drying / Puig, A., Munuera, I.P., Carcel, J.A., Hernando, I., Perez, J.V.G.  
*Food and Bioproducts Processing*, Volume 90, Issue 4, p. 624-632, October 2012, ISSN 0960-3085  
**Keywords: Ultrasound; Dehydration; Modelling; Microstructure**

**Tomat  
2008  
CABI**

538. Effect of gamma-irradiation on instrumental colour and textural characteristics of tomato stored under modified atmosphere packaging / Aneesh, M., Kudachikar, V.B., Ravi, R.  
*Journal of Food Science and Technology (Mysore)*, Volume 45, Issue 6, p. 543-545, 2008, ISSN 0022-1155  
**Keywords: Tomato; Fruit quality; Modified atmosphere packaging; Irradiation; Low temperature; Shelf life**

539. Effect of MA film packaging on storage of mature-red tomato / Guan, J.F., Park, H.W., Kim, Y.H., Kim, S.H., Park, H.R., Lee, S.A., Yoon, J.Y., Kanlayanarat, S., Hewett, E.W., Ferguson, I.B.  
*Acta Horticulturae*, Volume 804, p. 469-475, 2008, ISSN 0567-7572  
**Keywords: MAP; Quality; Tomato; Gas composition**

## DOAJ

540. Effect of storage conditions on tomato (*lycopersicon esculentum* mill.) quality and shelf life / L.A. Babatola, D.O. Ojo, O.I. Lawal  
*Journal of Biological Sciences*, Volume 8, Issue 2, p. 490-493, 2008, ISSN/EISSN: 17273048 18125719  
**Keywords: Quality; Temperature; Storage conditions; Tomato; Shelf life**
541. Effects of tomato geometries and air temperature on the drying behavior of plum tomato / Brooks, M.S., El-Hana, N.H.A., Ghaly, A.E.  
*American Journal of Applied Sciences*, Volume 5, Issue 10, p. 1369-1375, 2008, ISSN/EISSN: 15469239 15543641  
**Keywords: Air drying; Tomato; Geometry; Volume; Weight; Temperature; Moisture ratio; Specific moisture loss; Drying rate**

## ScienceDirect

542. Analysis of softening in air- and ethylene-treated rin, nor and wild-type tomato fruit / Smith, D.L., Gross, K.C., Whitaker, B.D.  
*Postharvest Biology and Technology*, Volume 49, Issue 2, p. 314-317, August 2008, ISSN 0925-5214  
**Keywords: Tomato fruits; Lycopersicon esculentum; Ripening; Softening; Ethylene; Non-ripening mutants**
543. Ascorbic acid degradation kinetics in tomatoes at different drying conditions / Marfil, P.H.M., Santos, E.M., Telis, V.R.N.  
*LWT - Food Science and Technology*, Volume 41, Issue 9, p. 1642-1647, November 2008, ISSN 0023-6438  
**Keywords: Convective drying; Osmotic dehydration; Vitamin C; Weibull model**
544. Biocontrol of *Alternaria alternata* on cherry tomato fruit by use of marine yeast *Rhodospiridium paludigenum* Fell & Tallman / Wang, Y., Bao, Y., Shen, D., Wu, F., Ting, Y., Jia, Z., Xiao, D.Z.  
*International Journal of Food Microbiology*, Volume 123, Issue 3, p. 234-239, 30 April 2008, ISSN 0168-1605  
**Keywords: Cherry tomato; Biological control; Alternaria alternata; Rhodospiridium paludigenum; Tallman; Marine yeast**

545. Effect of cultivar, maturity stage and storage environment on quality of tomatoes / Getinet, H., Seyoum, T., Woldetsadik, K.  
*Journal of Food Engineering*, Volume 87, Issue 4, p. 467-478, August 2008, ISSN 0260-8774  
**Keywords: Cultivars; Maturity stage; Evaporative cooling; Storage; Quality**
546. Effect of mechanical impact-bruising on polygalacturonase and pectinmethylesterase activity and pectic cell wall components in tomato fruit / van linden, V., Sila, D.N., Duvetter, T., De Baerdemaeker, J., Hendrickx, M.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 98-106, January 2008, ISSN 0925-5214  
**Keywords: Tomato; Lycopersicon esculentum ; Impact bruise damage; Pectin; Polygalacturonase; Pectin methylesterase (PME); Size exclusion chromatography**
547. Effects of the yeast *Pichia guilliermondii* against *Rhizopus nigricans* on tomato fruit / Zhao, Y., Kang, T., Xingfeng, S., Wei, J., Zipeng, S.  
*Postharvest Biology and Technology*, Volume 49, Issue 1, p. 113-120, July 2008, ISSN 0925-5214  
**Keywords: Pichia guilliermondii; Rhizopus nigricans; Biocontrol; Antagonistic mechanisms; Tomato fruits**
548. Evaluation of microbial inactivation and physicochemical properties of pressurized tomato juice during refrigerated storage / Kuo, C.H., Fa, J.T., Hsin, Y.C.  
*LWT - Food Science and Technology*, Volume 41, Issue 3, p. 367-375, April 2008, ISSN 0023-6438  
**Keywords: Tomato juices; Hydrostatic pressure; Lycopene; Colour; Microorganisms**
549. Evaluation of processing qualities of tomato juice induced by thermal and pressure processing / Kuo, C.H.  
*LWT - Food Science and Technology*, Volume 41, Issue 3, p. 450-459, April 2008, ISSN 0023-6438  
**Keywords: Tomato juices; Hydrostatic pressure; Hot-break processing; Cold-break processing; Lycopene; Radical scavenging activity**
550. Evaluation of snack foods from barley–tomato pomace blends by extrusion processing / Altan, A., McCarthy, K.L., Maskan, M.  
*Journal of Food Engineering*, Volume 84, Issue 2, p. 231-242, January 2008, ISSN 0260-8774  
**Keywords: Extrusion cooking; Barley; Tomato pomace; Response surface methodology**

551. Hexanal reduces infection of tomatoes by *Botrytis cinerea* whilst maintaining quality / Utto, W., Mawson, A.J., Bronlund, J.E.  
*Postharvest Biology and Technology*, Volume 47, Issue 3, p. 434-437, March 2008, ISSN 0925-5214  
**Keywords: Active packaging; Antifungal activity; Postharvest physiology; Hexanal; Tomato; Botrytis cinerea**
552. Hygienic quality of traditional processing and stability of tomato (*Lycopersicon esculentum*) puree in Togo / Ameyapoh, Y., de Souza, C., Traore, A.S.  
*Bioresource Technology*, Volume 99, Issue 13, p. 5798-5803, September 2008, ISSN 0960-8524  
**Keywords: Tomato; Lycopersicon esculentum; Puree; Storage; HACCP**
553. Impact of low-level atmospheric ozone-enrichment on black spot and anthracnose rot of tomato fruit / Tzortzakis, N., Singleton, I., Barnes, J.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 1-9, January 2008, ISSN 0925-5214  
**Keywords: Alternaria alternata; Colletotrichum coccodes; Lectin fluorescence assay; Ozone; Spoilage; Tomato fruits**
554. Influence of aqueous 1-methylcyclopropene concentration, immersion duration, and solution longevity on the postharvest ripening of breaker-turning tomato (*Solanum lycopersicum L.*) fruit / Sun, T.C., Huber, D.J.  
*Postharvest Biology and Technology*, Volume 49, Issue 1, p. 147-154, July 2008, ISSN 0925-5214  
**Keywords: Ethylene; Firmness; Lycopene; Softening; Tomato; 1-Methylcyclopropene; Polygalacturonase; Ripening**
555. Macro-vision and grey level granulometry for quantification of tomato pericarp structure / Devaux, M.F., Bouchet, B., Legland, D., Guillon, F., Lahaye, M.  
*Postharvest Biology and Technology*, Volume 47, Issue 2, p. 199-209, February 2008, ISSN 0925-5214  
**Keywords: Plant parenchyma; Tomato pericarp; Cell size; Image acquisition; Mathematical morphology; Image texture analysis; Granulometry**
556. Modulation of tomato pericarp firmness through pH and calcium: Implications for the texture of fresh-cut fruit / Pinheiro, S.C.F., Almeida, D.P.F.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 119-125, January 2008, ISSN 0925-5214  
**Keywords: Cell wall; Lycopersicon esculentum; Minimal processing; Pectin; Ripening; Texture**

557. Physiological basis of UV-C induced resistance to *Botrytis cinerea* in tomato fruit: III. Ultrastructural modifications and their impact on fungal colonization / Charles, M.T., Benhamou, N., Arul, J.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 27-40, January 2008, ISSN 0925-5214  
**Keywords:** Cell wall stacking zone; Cytochemical labeling; Gray mold; *Lycopersicon esculentum*; UV light; Hormesis; Host defense mechanisms; HR-like cell death; Physical barriers; Biochemical barriers; Postharvest; Pre-storage treatment; Transmission electron microscopy
558. Physiological basis of UV-C induced resistance to *Botrytis cinerea* in tomato fruit: IV. Biochemical modification of structural barriers / Charles, M.T., Goulet, A., Arul, J.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 41-53, January 2008, ISSN 0925-5214  
**Keywords:** *Lycopersicon esculentum*; Host defense mechanisms; Biochemical barriers; UV-light; Hormic dose; Hormesis; Berberine fluorescence; Lignin; Maïle test; Phenolic compounds; Prussian blue; Suberin
559. Physiological basis of UV-C induced resistance to *Botrytis cinerea* in tomato fruit: II. Modification of fruit surface and changes in fungal colonization / Thérèse, C.M., Makhlouf, J., Arul, J.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 21-26, January 2008, ISSN 0925-5214  
**Keywords:** Cuticular wax; Gray mold; UV-light; Hormesis; *Lycopersicon esculentum*; Postharvest; Pre-storage treatment; Scanning electron microscopy
560. Physiological basis of UV-C-induced resistance to *Botrytis cinerea* in tomato fruit: I. Role of pre- and post-challenge accumulation of the phytoalexin-rishitin / Charles, M.T., Mercier, J., Makhlouf, J., Arul, J.  
*Postharvest Biology and Technology*, Volume 47, Issue 1, p. 10-20, January 2008, ISSN 0925-5214  
**Keywords:** Host resistance; Gray mold; *Lycopersicon esculentum*; Disease control; Electron microscopy; UV light; Hormic dose; Hormesis; Pre-storage treatment
561. Suppression of ripening and induction of asynchronous ripening in tomato and avocado fruits subjected to complete or partial exposure to aqueous solutions of 1-methylcyclopropene / Sun, T.C., Tsouvaltzis, P., Chai, I.L., Huber, D.J.  
*Postharvest Biology and Technology*, Volume 48, Issue 2, p. 206-214, May 2008, ISSN 0925-5214  
**Keywords:** Avocado; Ethylene; Firmness; Lycopene; 1-Methylcyclopropene; Polygalacturonase; Tomato



562. Valorisation of low quality edible oil with tomato peel waste / Benakmoum, A., Abbeddou, S., Ammouche, A., Kefalas, P., Gerasopoulos, D.  
*Food Chemistry*, Volume 110, Issue 3, p. 684-690, 1 October 2008, ISSN 0308-8146  
**Keywords: Tomato; Byproducts; Antioxidant activity; Olive oil; Phenolics**

## 2009 CABI

563. Changes in antioxidant compounds during the shelf life of commercial tomato juices in different packaging materials / Alonso, F.J.G., Bravo, S., Casas, J., Conesa, D.P., Jacob, K., Periago, M.J.  
*Journal of Agricultural and Food Chemistry*, Volume 57, Issue 15, p. 6815-6822, 2009, ISSN 0021-8561  
**Keywords: Tomato juices; Lycopene; Antioxidant activity; Ascorbic acid; Total phenolic compounds; Total flavonoids; Packaging; Shelf life**
564. Determination of fifteen active compounds released from paraffin-based active packaging in tomato samples via microextraction techniques / Rodriguez-Lafuente, A., Nerin de la Puerta, C., Batlle, R.  
*Analytical and Bioanalytical Chemistry*, Volume 395, Issue 1, p. 203-211, 2009, ISSN 1618-2642  
**Keywords: Headspace solid phase microextraction ; Hollow-fibre liquid phase microextraction ; Food analysis; Essential oils; Antimicrobial packaging**
565. Effect of different packaging systems on the quality of tomato (*Lycopersicon esculentum* var. Rio Grande) fruits during storage / Sammi, S., Masud, T.  
*International Journal of Food Science & Technology*, Volume 44, Issue 5, p. 918-926, 2009, ISSN 0950-5423  
**Keywords: Boric acid; Calcium chloride; Lycopersicon esculentum; Potassium permanganate; Quality; Tomato**
566. Effect of pretreatments and packaging of tomato in LDPE and PET films on the storage-life / Yadav, R.K., Sanwal, S.K., Singh, P.K., Buragohain, J.  
*Journal of Food Science and Technology (Mysore)*, Volume 46, Issue 2, p. 139-141, 2009, ISSN 0022-1155  
**Keywords: Tomato; Pretreatment; Packaging; Storage**
567. Integrated agrotechnology with preharvest ComCat® treatment, modified atmosphere packaging and forced ventilation evaporative cooling of tomatoes / Workneh, T.S.; Osthoff, G., Steyn, M.S.  
*African Journal of Biotechnology*, Volume 8, Issue 5, p. 860-872, 2009, ISSN 1684-5315  
**Keywords: ComCat®; Modified atmosphere packaging; Evaporative cooling; Temperature; Relative humidity; Carrot**

568. Methyl jasmonate coupled with modified atmosphere packaging to extend shelf life of tomato (*Lycopersicon esculentum* Mill.) during cold storage / Siripatrawan, U., Assatarakul, K.  
*International Journal of Food Science & Technology*, Volume 44, Issue 5, p. 1065-1071, 2009, ISSN 0950-5423  
**Keywords: Chilling injury; Heat treatment; Lycopene content; Methyl jasmonate; Modified atmosphere packaging; Overall quality; Shelf life**
569. Resonance frequency of Nigerian tomato fruit as related to prevention of damage during transportation/ Idah, P. A., Visa, M.G., Ajisegiri, E.S.A., Okpala, O.  
*Journal of Food Science and Technology (Mysore)*, Volume 46, Issue 2, p. 153-155, 2009, ISSN 0022-1155  
**Keywords: Tomato; Vibration; Damage; Transportation; Handling; Natural frequency**
570. Standardization of corrugated fibre board boxes for packaging and transportation of tomatoes (*Lycopersicon esculentum*) / Bhuvaneswari, S., Rao, K.P.G.,  
*Indian Journal of Agricultural Sciences*, Volume 79, Issue 7, p. 542-544, 2009, ISSN 0019-5022  
**Keywords: Fibreboards; Packaging; Containers; Transport; Tomatoes; Road transport**

## DOAJ

571. Addition of tomato peel and seed to tomato ketchup for improving its nutritional value and rheological properties / Mesbahi, G.H., Abasi, A. Jalali, J., Farahnaki, A.  
*Journal of Science and Technology of Agriculture and Natural Resources*, Volume 13, Issue 47, p. 69-82, 2009, ISSN/EISSN: 10287655  
**Keywords: Tomato peel; Tomato seed; Ketchup sauce; Rheological properties; Nutritional value**
572. Effect of carboxymethylcellulose and starch as thickening agents on the quality of tomato ketchup / Alam, M.K., Ahmed, M., Akter, M.S., Islam, N., Eun Jong, B.  
*Pakistan Journal of Nutrition*, 2009, Volume 8, Issue 8, p. 1144-1149, ISSN/EISSN: 16805194  
**Keywords: Tomato ketchup; Carboxymethylcellulose; Starch; Chemical composition**

573. Effect of harvesting and storage conditions on the post harvest quality of tomato (*Lycopersicon esculentum* Mill) cv. Roma VF / Moneruzzaman, K.M., Hossain, A.B.M S., Sani, W., Aifuddin, M.S., Alenazi, M.  
*Australian Journal of Crop Science*, Volume 3, Issue 2, p. 113-121, 2009, ISSN/EISSN: 18352693 18352707  
**Keywords: Maturity stage; Storage conditions; Quality character; Tomato**
574. Study of water loss kinetics and quality characteristics of the tomato slices during drying by three methods: solar drying, open-sun drying and hot air drying / Akbari, A., SHahedi, M., Hmadami, N., Dokhani, S.H., Sadeghi, M.  
*Journal of Science and Technology of Agriculture and Natural Resources*, Volume 13, Issue 47, p. 445-459, 2009, ISSN/EISSN: 10287655  
**Keywords: Tomato; Drying; Shrinkage; Rehydration ability; Solar dryer; Colour**

## ProQuest

575. Effect of harvesting and storage conditions on the postharvest quality of tomato (*Lycopersicon esculentum* Mill) cv. Roma VF / Moneruzzaman, K.M., Hossain, A.B.M.S., Sani, W., Saifuddin, M., Alenazi, M.  
*Australian Journal of Crop Science*, Volume 3, Issue 2, p. 113-121, Mar 2009, ISSN 18352693  
**Keywords: Tomatoes; Harvesting; Storage; Quality**

## ScienceDirect

576. Analysis of cell-wall pectin from hot and cold break tomato preparations/ Chong, H.H., Simsek, S., Reuhs, B.L.  
*Food Research International*, Volume 42, Issue 7, p. 770-772, August 2009, ISSN 0963-9969  
**Keywords: Tomato processing; Pectinmethylesterase; Endopolygalacturonase; Pectin; Hot break; Cold break**
577. Avoiding non-enzymatic browning by high-intensity pulsed electric fields in strawberry, tomato and watermelon juices / Aguayo, I.A., Fortuny, R.S., Belloso, O.M.  
*Journal of Food Engineering*, Volume 92, Issue 1, p. 37-43, May 2009, ISSN 0260-8774  
**Keywords: High-intensity pulsed; Electric fields; Colour; 5-Hydroxymethyl furfural; Response surface methodology; Strawberry; Tomato juices; Watermelon juices**

578. Defense responses of harvested tomato fruit to burdock fructooligosaccharide, a novel potential elicitor / Wang, F., Feng, G., Chen, K.  
*Postharvest Biology and Technology*, Volume 52, Issue 1, p. 110-116, April 2009, ISSN 0925-5214  
**Keywords: Burdock fructooligosaccharide; Tomato fruits; Elicitor; Postharvest disease control; Defense responses**
579. Effect of 1-methylcyclopropene on the sensory, visual, and analytical quality of greenhouse tomatoes / Cliff, M., Lok, S., Lu, C., Toivonen, P.M.A.  
*Postharvest Biology and Technology*, Volume 53, Issues 1–2, p. 11-15, July–August 2009, ISSN 0925-5214  
**Keywords: Lycopersicon esculentum; 1-Methylcyclopropene; Flavour; Sensory; Storage**
580. Effect of ethylene concentration on quality parameters of fresh tomatoes stored using a carbon-heat hybrid ethylene scrubber / Romero, D.M., Guillén, F., Castillo, S., Zapata, P.J., Valero, D., Serrano, M.  
*Postharvest Biology and Technology*, Volume 51, Issue 2, p. 206-211, February 2009, ISSN 0925-5214  
**Keywords: Ethylene removal; Tomato ripening; Colour; Acidity; Ascorbic acid; Firmness**
581. Effect of refrigerated storage on aroma and alcohol dehydrogenase activity in tomato fruit / de León, S.F.D., Zaldívar, C.P., Cabrera, F.R., Valadez, M.P., Alejandre, X.Á., Fernández, F.J., Buendía, H.B.E., Flores, L.J.P.  
*Postharvest Biology and Technology*, Volume 54, Issue 2, p. 93-100, November 2009, ISSN 0925-5214  
**Keywords: Volatiles; Sensory evaluation; Flavor; Postharvest quality; Refrigeration; Alcohol dehydrogenase; Tomato**
582. Effects of UV-C, red light and sun light on the carotenoid content and physical qualities of tomatoes during post-harvest storage/ Liu, L.H., Zabarás, D., Bennett, L.E., Aguas, P., Woonton, B.W.  
*Food Chemistry*, Volume 115, Issue 2, p. 495-500, 15 July 2009, ISSN 0308-8146  
**Keywords: Carotenoids; Tomatoes; Light irradiation; Lycopene;  $\beta$ -carotenoids; Colour**
583. Influence of process variables on colour changes, carotenoids retention and cellular tissue alteration of cherry tomato during osmotic dehydration / Heredia, A., Peinado, I., Barrera, C., Grau, A.A.  
*Journal of Food Composition and Analysis*, Volume 22, Issue 4, p. 285-294, June 2009, ISSN 0889-1575  
**Keywords: Lycopene;  $\beta$ -carotenoids; Ternary solutions; Microscopy; Tomato; Colour; Food analysis; Food composition**

584. Monitoring the postharvest ripening of tomato fruit using quantitative MRI and NMR relaxometry / Musse, M., Quellec, S., Cambert, M., Devaux, M.F., Lahaye, M., Mariette, F.  
*Postharvest Biology and Technology*, Volume 53, Issues 1–2, p. 22-35, July–August 2009, ISSN 0925-5214  
**Keywords: Tomato; Postharvest ripening; MRI; NMR; Relaxation**
585. Non-destructive impact test for assessment of tomato maturity / Lien, C.C., Ay, C., Ting, C.H.  
*Journal of Food Engineering*, Volume 91, Issue 3, p. 402-407, April 2009, ISSN 0260-8774  
**Keywords: Falling impact; Tomato; Cluster analysis; Discriminating analysis; Stepwise regression analysis; Fruit maturity**
586. Physiological basis of UV-C induced resistance to *Botrytis cinerea* in tomato fruit. V. Constitutive defence enzymes and inducible pathogenesis-related proteins / Charles, M.T., Tano, K., Asselin, A., Arul, J.  
*Postharvest Biology and Technology*, Volume 51, Issue 3, p. 414-424, March 2009, ISSN 0925-5214  
**Keywords: Chitinase; Disease control; Gray mold; Glucanase; Host resistance; Hormetic; Hormic dose; Host defense mechanisms; Lycopersicon esculentum; Pathogenesis-related proteins (PR) ; Polyacrylamide gel electrophoresis; Postharvest pre-storage treatment; UV-light**
587. Rapid estimation of lycopene concentration in watermelon and tomato puree by fiber optic visible reflectance spectroscopy / Choudhary, R., Bowser, T.J., Weckler, P., Maness, N.O., McGlynn, W.  
*Postharvest Biology and Technology*, Volume 52, Issue 1, p. 103-109, April 2009, ISSN 0925-5214  
**Keywords: Lycopene; Carotenoids; Watermelon; Citrullus lanatus; Lycopersicon esculentum; Visible reflectance spectroscopy; Carotenoid measurement; Fiber optic sensing; Chemometry**

## 2010 CABI

588. Active paraffin-based paper packaging for extending the shelf life of cherry tomatoes/ Rodriguez-Lafuente, A., Nerin, C., Batlle, R.  
*Journal of Agricultural and Food Chemistry*, Volume 58, Issue 11, p. 6780-6786, 2010, ISSN 0021-8561  
**Keywords: Active paper packaging; Cherry tomato; Essential oils; Alternaria alternata**

589. Effects of mixed gas in active MA packaging on marketability maintenance at simulated tomato fruits marketing / Jeong, C.S., Watkins, C.B.  
*Horticulture, Environment and Biotechnology*, Volume 51, Issue 3, p. 184-188, 2010, ISSN 0253-6498  
**Keywords: Ascorbic acid; Mixed gas; Off-flavour; Respiration; Ethylene; Sugar**

## DOAJ

590. Development and quality characteristics studies of tomato paste stored at different temperatures/ Safdar, M.N., Mumtaz, A., Amjad, M., Siddiqui, N., Hameed, T.  
*Pakistan Journal of Nutrition*, Volume 9, Issue 3, p. 265-268, 2010 ISSN/EISSN: 16805194  
**Keywords: Tomato paste; Chemical analysis; Sensory evaluation; Temperature; Storage studies**
591. Drying effect of varying light frequencies on the proximate and microbial composition of tomato / Kolawole, O.M., Kayode R.M.O., Aina, J.  
*Journal of Agricultural Science*, Volume 2, Issue 2, DOI: 10.5539/jas.v2n2P214, 2010 ISSN/EISSN: 19169752 19169760  
**Keywords: Tomato; Drying; Lights; Proximate composition; Microbial composition**
592. Effect of osmotic pressure in the processing and evaluation of the shelf life of dried tomato / da Silva, V.K.L., Pinheiro, É.S., Domingues, M.A.F., de Aquino, A.C. *et al.*  
*Semina : Ciências Agrárias*, Volume 31, Issue 1, p. 55-66, 2010, ISSN/EISSN 16790359 1676546X  
**Keywords: Tomato; Osmotic pressure; Shelf life**

## GREENR

593. Drying effect of varying light frequencies on the proximate and microbial composition of tomato / Kolawole, O.M., Kayode, R.M.O., Aina, J.  
*Journal of Agricultural Science*, Volume 2, Issue 2, p. 214-224, June 2010, ISSN 1916-9752  
**Keywords: Tomato fruits; Colour frequency; Wooding drying; Bacterial counts; Proximate composition**

594. UV-C irradiation of tomato and its effects on color and pigments / Maharaj, R. , Arul, J., Nadeau, P.  
*Advances in Environmental Biology*, Volume 4, Issue 2, p. 308-315, May 2010, ISSN 1995-0756  
**Keywords: Ultraviolet radiation; Tomato; Colour; Pigments; Chlorophyll; Lycopene; Carotenoids; Senescence**

## ProQuest

595. Ripening of tomato (*Solanum lycopersicum* L.). Part I: 1-methylcyclopropene mediated delay at higher storage temperature / Paul, V., Pandey, R., Srivastava, G.C.  
*Journal of Food Science and Technology*, Volume 47, Issue 5, p. 519-526, October 2010, ISSN 00221155  
**Keywords: Tomatoes; Ripening; Storage; High temperature**

## ScienceDirect

596. Antioxidant activity of tomato lipophilic extracts and interactions between carotenoids and  $\alpha$ -tocopherol in synthetic mixtures / Zanfini, A., Corbini, G., La Rosa, C., Dreassi, E.  
*LWT - Food Science and Technology*, Volume 43, Issue 1, January 2010, p. 67-72, ISSN 0023-6438  
**Keywords: Carotenoids;  $\alpha$ -Tocopherol; Antioxidant activity; Synergistic effect; Synthetic mixtures**
597. Application of a sorting procedure to greenhouse-grown cucumbers and tomatoes / Deegan, K.C., Koivisto, L., Näkkilä, J., Hyvönen, L., Tuorila, H.  
*LWT - Food Science and Technology*, Volume 43, Issue 3, April 2010, p. 393-400, ISSN 0023-6438  
**Keywords: Sorting; Sensory; Cucumber; Tomato**
598. Cell wall metabolism in cold-stored tomato fruit / Rugkong, A., Rose, J.K.C., Sang, J.L., Giovannoni, J.J., O'Neill, M.A., Watkins, C.B.  
*Postharvest Biology and Technology*, Volume 57, Issue 2, August 2010, p. 106-113, ISSN 0925-5214  
**Keywords: *Solanum lycopersicum*; Chilling injury; Fruit ripening; Cell walls; Polygalacturonase**

599. Changes in pectin methylesterification and accumulation of methanol during production of diced tomatoes / Anthon, G.E., Barrett, D.M.  
*Journal of Food Engineering*, Volume 97, Issue 3, April 2010, p. 367-372, ISSN 0260-8774  
**Keywords: Tomato; Diced; Pectin; Pectin methylesterase (PME); Methanol; Calcium; Firmness**
600. Combination of heat treatment and *Pichia guilliermondii* prevents cherry tomato spoilage by fungi / Yan, Z., Kang, T., Sicong, T., Ming, L., Jing, S., Yue-peng, H.  
*International Journal of Food Microbiology*, Volume 137, Issue 1, 31 January 2010, p. 106-110, ISSN 0168-1605  
**Keywords: Cherry tomato fruit; Heat treatment; Pichia guilliermondii; Postharvest fungal spoilage**
601. Design of a forced-air-twin-chamber for investigating the effects of controlled levels of non-uniformity in heat treatment of tomatoes on product quality / Jianbo, L., Vigneault, C., Charles, M.T., Raghavan, G.S.V., Goyette, B.  
*Journal of Food Engineering*, Volume 96, Issue 2, January 2010, p. 279-286, ISSN 0260-8774  
**Keywords: Heat treatment; Temperature; Air velocity; Tomato**
602. Effect of heat treatment uniformity on tomato ripening and chilling injury / Jianbo, L., Charles, M.T., Vigneault, C., Goyette, B., Raghavan, V.G.S.  
*Postharvest Biology and Technology*, Volume 56, Issue 2, May 2010, p. 155-162, ISSN 0925-5214  
**Keywords: Non-uniform; Heat treatment; Chilling injury; Firmness; Colour; Tomato; Taste**
603. Estimation of oxygen uptake rate of tomato (*Lycopersicon esculentum* Mill.) fruits by artificial neural networks modelled using near-infrared spectral absorbance and fruit mass / Makino, Y., Ichimura, M., Oshita, S., Kawagoe, Y., Yamanaka, H.  
*Food Chemistry*, Volume 121, Issue 2, 15 July 2010, p. 533-539, ISSN 0308-8146  
**Keywords: Artificial neural networks; Cytochrome oxidase; Lycopersicon esculentum; Fruit mass; Near-infrared spectroscopy; O<sub>2</sub> uptake rate; Proteome analysis; Tomato**
604. Ethanol, vinegar and *Origanum vulgare* oil vapour suppress the development of anthracnose rot in tomato fruit / Tzortzakis, N.G.  
*International Journal of Food Microbiology*, Volume 142, Issues 1–2, 15 August 2010, p. 14-18, ISSN 0168-1605  
**Keywords: Tomato; Ethanol; Vinegar; Essential oils; Anthracnose; Fungal growth**



605. Modelling of yeast inactivation in sonicated tomato juice /Adekunte, A., Tiwari, B.K., Scannell, A., Cullen, P.J., O'Donnell, C.  
*International Journal of Food Microbiology*, Volume 137, Issue 1, 31 January 2010, p. 116-120, ISSN 0168-1605  
**Keywords: Yeasts; Tomato juices; Ultrasound; Weibull model**
606.  $\gamma$ -Aminobutyric acid (GABA) metabolism in CO<sub>2</sub> treated tomatoes / Deewatthanawong, R., Rowell, P., Watkins, C.B.  
*Postharvest Biology and Technology*, Volume 57, Issue 2, August 2010, p. 97-105, ISSN 0925-5214  
**Keywords: GABA; Carbon dioxide; Controlled atmosphere; Tomato; Solanum lycopersicum**

## 2011 CABI

607. Effects of postharvest handling and storage temperature on the quality and shelf of tomato/ Mutari, A., Debbie, R.  
*African Journal of Food Science*, Volume 5, Issue 7, p. 446-452, 2011, ISSN 1996-0794  
**Keywords: Ethylene; Photovac explorer; Tristimulus; Respiration; Carbon dioxide; Firmness**

## DOAJ

608. Effect of chemical additives on the shelf life of tomato juice / Hossain, Md.N., Fakruddin, Md., Islam, Md.N.  
*American Journal of Food Technology*, Volume 6, Issue 10, p. 914-923, 2011, ISSN/EISSN: 1557458X 15574571  
**Keywords: Preservatives; Shelf life; Sodium benzoate; Total viable count; Tomato juices**
609. Effect of edible coatings, storage time and maturity stage on overall quality of tomato fruits / Jorge, E.J, Davila, A., Rodríguez, J.V., Valenzuela, R.C., Armenta, M.R., Diaz, M.E., Zavala, J.F.A., , Orozco, G.I.O., Heredia, B., Aguilar, G.G.  
*American Journal of Agricultural and Biological Science*, Volume 6, Issue 1, p. 162-171, 2011 ISSN/EISSN 15574989 15574997  
**Keywords: Edible films; Postharvest quality; Pectin methylesterase (PME); Polygalacturonase; Lycopersicon esculentum**

610. Effect of origanum oil and vinegar on the maintenance of postharvest quality of tomato / Tzortzakis, N.G., Tzanakaki, K., Economakis, C.D.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 974-982, DOI: 10.4236/fns.2011.29132, 2011 ISSN/EISSN: 2157944X 21579458  
**Keywords: Fruit storage; Natural products; Preservation; Quality-related attributes; Tomato; Volatiles**
611. Effective moisture diffusivity and activation energy of tomato in thin layer dryer during hot air drying / Garavand, A.T., Shahin, R., Alireza, K.,  
*International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies*, Volume 2, Issue 2, p. 239-248, 2011, ISSN/EISSN 22289860 19069642  
**Keywords: Drying; Fick's model; Activation energy; Tomato; Relative humidity**
612. Mathematical modeling of thin layer drying kinetics of tomato influence of air dryer conditions / A.T. Garavand, Shahin, R., Alireza, K.  
*International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies*, Volume 2, Issue 2, p. 147-160, 2011, ISSN/EISSN 22289860 19069642  
**Keywords: Tomato; Thin layer drying; Relative humidity; Air temperature; Air velocity**

## ProQuest

613. Effect of edible coatings, storage time and maturity stage on overall quality of tomato fruits / Dávila Aviña, J.E.J., Villa-Rodríguez, J., Cruz-Valenzuela, R., Rodríguez-Armenta, M., Espino-Díaz, M., Ayala-Zavala, J.F., Olivas-Orozco, G.I., Heredia, B., González-Aguilar, G.  
*American Journal of Agricultural and Biological Sciences*, Volume 6, Issue 1, p. p. 162-171, 2011, ISSN: 15574989  
**Keywords: Tomatoes; Storage time; Edible films; Maturity; Quality**
614. Effect of origanum oil and vinegar on the maintenance of postharvest quality of tomato / Tzortzakis, N.G., Tzanakaki, K., Economakis, C.D.  
*Food and Nutrition Sciences*, Volume 2, Issue 9, p. 974-982, Nov 2011, ISSN 2157944X  
**Keywords: Tomatoes; Origanum oil; Food quality; Acids; Microorganisms**
615. Influence of refrigerated storage time on efficacy of irradiation to reduce salmonella on sliced roma tomatoes[dagger] / Niemira, B.A.  
*Journal of Food Protection*, Volume 74, Issue 6, p. 990-993, Jun 2011, ISSN 0362-028X  
**Keywords: Tomatoes; Food preservation; Food safety; Food contamination; Food poisoning; Salmonella; Food irradiation**

## ScienceDirect

616. Antioxidant activity and bioactive compound changes during fruit ripening of high-lycopene tomato cultivars / Ilahy, R., Hdider, C., Lenucci, M.S., Tlili, I., Dalessandro, G.  
*Journal of Food Composition and Analysis*, Volume 24, Issues 4–5, p. 588-595, June–August 2011, ISSN 0889-1575  
**Keywords: High-lycopene cultivars; Lycopene; Lycopersicon esculentum; Antioxidants; Vitamin C; Ascorbic acid; Dehydroascorbic acid; Phenols; Flavonoids; Ripening stages; Food analysis; Food composition**
617. Biomechanical characteristics of tomato fruit peels / Hetzroni, A., Vana, A., Mizrach, A.  
*Postharvest Biology and Technology*, Volume 59, Issue 1, p. 80-84, January 2011, ISSN 0925-5214  
**Keywords: Strain; Stress; Firmness; Cuticle; Epidermis; Cellulose**
618. Chilling and heating may regulate C6 volatile aroma production by different mechanisms in tomato (*Solanum lycopersicum*) fruit / Bai, J., Baldwin, E.A., Imahori, Y., Kostenyuk, I., Burns, J., Brecht, J.K.  
*Postharvest Biology and Technology*, Volume 60, Issue 2, p. 111-120, May 2011, ISSN 0925-5214  
**Keywords: Tomato fruits; Volatile; Lipoxygenase; Hydroperoxide lyase; Alcohol dehydrogenase; Gene expression; Enzyme activity; Chilling injury; Heat shock**
619. Determination of antioxidant activity and antioxidant content in tomato varieties and evaluation of mutual interactions between antioxidants / Kotíková, Z., Lachman, J., Hejtmánková, A., Hejtmánková, K.  
*LWT - Food Science and Technology*, Volume 44, Issue 8, p. 1703-1710, October 2011, ISSN 0023-6438  
**Keywords: Tomato; Ripening; Antioxidants; Antioxidant activity; Synergistic effect**
620. Effect of high-pressure processing on volatile composition and odour of cherry tomato purée / Viljanen, K., Lille, M., Heiniö, R.L., Buchert, J.  
*Food Chemistry*, Volume 129, Issue 4, p. 1759-1765, 15 December 2011, ISSN 0308-8146  
**Keywords: Tomato; Flavour; High-pressure processing; Volatile compounds; GC-MS**

621. Effect of preharvest UV-C treatment of tomatoes (*Solanum lycopersicon Mill.*) on ripening and pathogen resistance / Obande, M.A., Tucker, G.A., Shama, G. *Postharvest Biology and Technology*, Volume 62, Issue 2, p. 188-192, November 2011, ISSN 0925-5214  
**Keywords: Preharvest UV-C treatment; Tomatoes; Ripening; Pathogen resistance**
622. Effects of direct-electric-current on secondary plant compounds and antioxidant activity in harvested tomato fruits (*Solanum lycopersicon L.*) / Dannehl, D., Keil, S.H., Eichholz, I., Ulrichs, C., Schmidt, U. *Food Chemistry*, Volume 126, Issue 1, p. 157-165, 1 May 2011, ISSN 0308-8146  
**Keywords: Electric current; Phenolic compounds; Carotenoids; Lycopene;  $\beta$ -carotenoids**
623. Electrohydrodynamic (EHD) drying of tomato slices (*Lycopersicon esculentum*) / Esehaghbeygi, A., Basiry, M. *Journal of Food Engineering*, Volume 104, Issue 4, p. 628-631, June 2011, ISSN 0260-8774  
**Keywords: Drying; Tomato; Electrostatic; Shrinkage; Colour**
624. Electrohydrodynamic (EHD) drying of tomato slices (*Lycopersicon esculentum*) / Esehaghbeygi, A., Basiry, M. *Journal of Food Engineering*, Volume 104, Issue 4, p. 628-631, June 2011, ISSN 0260-8774  
**Keywords: Drying; Tomato; Electrostatic; Shrinkage; Colour**
625. Expression of ripening-related genes in cold-stored tomato fruit / Rugkong, A., McQuinn, R., Giovannoni, J.J., Rose, J.K.C., Watkins, C.B. *Postharvest Biology and Technology*, Volume 61, Issue 1, p. 1-14, July 2011, ISSN 0925-5214  
**Keywords: Chilling injury; Tomato; Gene expression; Fruit ripening; Ethylene receptor; Le-MADS-RIN**
626. External calibration models for the measurement of tomato carotenoids by infrared spectroscopy / Diaz, D.E.R., Francis, D.M., Saona, L.E.R. *Journal of Food Composition and Analysis*, Volume 24, Issue 1, p. 121-126, February 2011, ISSN 0889-1575  
**Keywords: Carotenoids; Tomato; Infrared; Spectroscopy; Calibration; Models; PLSR; Standard; Food analysis; Food composition**
627. Finite element model for mechanical deformation of single tomato suspension cells / Dintwa, E., Jancsó, P., Mebatsion, H.K., Verlinden, B., Verboven, P., Wang, C.X., Thomas, C.R., Tijssens, E., Ramon, H., Nicolaï, B. *Journal of Food Engineering*, Volume 103, Issue 3, p. 265-272, April 2011, ISSN 0260-8774  
**Keywords: Finite element; Model; Single cell compression; Tomato cell; Micromanipulation; Texture; Fruits**

628. HRMAS-nuclear magnetic resonance spectroscopy characterization of tomato “flavor varieties” from Almería (Spain) / Pérez, E.M.S., López, J.G., Iglesias, M.J., Ortiz, F.L., Toresano, F., Camacho, F.  
*Food Research International*, Volume 44, Issue 10, p. 3212-3221, December 2011, ISSN 0963-9969  
**Keywords: Tomato flavor varieties; Quality attributes; 1 H HRMAS NMR; Metabolic characterization; Principal component analysis; Assigned signal analysis**
629. Investigation of Raman chemical imaging for detection of lycopene changes in tomatoes during postharvest ripening / Jianwei, Q., Kuanglin, C., Moon S.K.  
*Journal of Food Engineering*, Volume 107, Issues 3–4, p. 277-288, December 2011, ISSN 0260-8774  
**Keywords: Raman spectroscopy; Chemical imaging; Tomato; Maturity; Lycopene**
630. Low-level atmospheric ozone exposure induces protection against *Botrytis cinerea* with down-regulation of ethylene-, jasmonate- and pathogenesis-related genes in tomato fruit / Tzortzakis, N., Taybi, T., Roberts, R., Singleton, I., Borland, A., Barnes, J.  
*Postharvest Biology and Technology*, Volume 61, Issues 2–3, p. 152-159, August–September 2011, ISSN 0925-5214  
**Keywords: Botrytis cinerea; Gene expression; Induced resistance; Microbial spoilage; Ozone; Tomato**
631. Metabolic characterization of tomato fruit during preharvest development, ripening, and postharvest shelf-life / Oms-Oliu, G., Hertog, M.L.A.T.M., Van de Poel, B., Asiama, J.A., Geeraerd, A.H., Nicolai, B.M.  
*Postharvest Biology and Technology*, Volume 62, Issue 1, p. 7-16, October 2011, ISSN 0925-5214  
**Keywords: Tomato; Fruit quality; Ripening; GC-MS; Metabolic profiling; Metabolomics**
632. Nitric oxide synthase as a postharvest response in pathogen resistance of tomato fruit / Yang, Z., Lin, S., Mengmeng, Y., Bei, F., Danying, Z., Lingyi, L., Jiping, S.  
*Postharvest Biology and Technology*, Volume 60, Issue 1, p. 38-46, April 2011, ISSN 0925-5214  
**Keywords: Nitric oxide; Elicitor; Nitric oxide synthase; Tomato fruits**
633. Postharvest UV-B irradiation maintains sensory qualities and enhances antioxidant capacity in tomato fruit during storage / Changhong, L., Xiaoxu, H., Luyun, C., Xianying, L., Tiejin, Y., Zhenhui, J.  
*Postharvest Biology and Technology*, Volume 59, Issue 3, p. 232-237, March 2011, ISSN 0925-5214  
**Keywords: Tomato; Postharvest UV-B irradiation; Sensory quality; Antioxidants; Storage**

634. Spatial–temporal analyses of lycopene and sugar contents in tomatoes during ripening using chemical shift imaging / Yu-Che, C., Tsu-Tsuen, W., Jyh-Horn, C., Ta-Te, L. *Postharvest Biology and Technology*, Volume 62, Issue 1, p. 17-25, October 2011, ISSN 0925-5214  
**Keywords: Magnetic resonance imaging; Nondestructive analysis; HPLC; Spectroscopy; Lycopene**
635. Volatile fraction profiling of fresh tomatoes and triple concentrate tomato pastes as parameter for the determination of geographical origin / Feudo, G.L., Macchione, B., Naccarato, A., Sindona, G., Tagarelli, A. *Food Research International*, Volume 44, Issue 3, p. 781-788, April 2011, ISSN 0963-9969  
**Keywords: Tomato; Volatile compounds; SPME; GC-MS; Authenticity; Statistical analysis; Classification**

## 2012 DOAJ

636. Chemical composition, color and sensory quality of tomato dried at different temperatures / da Cruz, P.M. F., Gilberto Costa, B., de Grandi, A.M. *Semina : Ciências Agrárias*, Volume 33, Issue 4, p. 1475-1486, 2012, ISSN/EISSN 1676546X 16790359  
**Keywords: Lycopersicon esculentum; Ascorbic acid; Chemical composition; Sensory quality; Temperature**
637. Effect of ethylene and 1-methylcyclopropene (1-mcp) on color and firmness of red and breaker stage tomato stored at different temperatures / Tigist Nardos, T., Brian, F., Ernst, W. *American Journal of Food Technology*, Volume 7, Issue 9, p. 542-551, 2012, ISSN/EISSN: 15574571 1557458X  
**Keywords: Storage; Ripening; Tomato; Lycopene; Antioxidants; 1-MCP**
638. Effect of selected factors on drying process of tomato in forced convection solar energy dryer / Isiaka, M., El-Okene, A.M.I., Muhammed, U.S. *Research Journal of Applied Sciences, Engineering and Technology*, Volume 4, Issue 19, p. 3637-3640, 2012, ISSN/EISSN 20407459 20407467  
**Keywords: Air flow rate; Drying time; Glazing; Slice thickness; Solar dryer; Tomato**

639. Investigation on the cause(s) of tomato fruit discoloration and damage under chilling condition using external antioxidants and hot water treatment / Tigest Nardos, T., Brian, F., Woltering, E.  
*Asian Journal of Plant Sciences*, Volume 11, Issue 5, p. 217-225, 2012, ISSN/EISSN 16823974 18125697  
**Keywords: Hot water treatment; Tomato; Lycopene; Firmness; Antioxidants**

## ProQuest

640. Effect of drying methods on physicochemical properties of pretreated tomato (*Lycopersicon esculentum* mill.) slices / Owusu, J., Ma, H., Wang, Z., Amissah, A.  
*Hrvatski Casopis za Prehrambenu Tehnologiju, Biotehnologijui Nutricionizam*, Volume 7, p. 106-111, 2012, ISSN 18473423  
**Keywords: Tomatoes; Physicochemical properties; Drying methods; Slices**
641. Effect of storage time and temperature on Poisson ratio of tomato fruit skin / Kuna-Broniowska, I., Gladyszewska, B., Ciupak, A.  
*International Agrophysics*, Volume 26, Issue 1, p. 39, Feb 2012, ISSN 02368722  
**Keywords: Tomatoes; Fruit skin; Storage; Temperature**
642. Effects of exposure to gaseous ozone and negative air ions on control of epiphytic flora and the development of *Botrytis cinerea* and *Penicillium expansum* during cold storage of strawberries and tomatoes / Tuffi, R., Lovino, R., Canese, S., Cafiero, L.M., Vitali, F.  
*Italian Journal of Food Science*, Volume 24, Issue 2, p. 102-114, 2012, ISSN 11201770  
**Keywords: Tomatoes; Cold storage; Botrytis cinerea; Penicillium expansum; Gaseous ozone**
643. Postharvest analysis of lowland transgenic tomato fruits harboring hpRNAi-ACO1 construct / Behboodan, B., Ali, Z.M., Ismail, I., Zainal, Z.  
*Scientific World Journal*, 2012  
**Keywords: Fruits; Tomatoes; Microbiology; Enzymes; Genes; Cloning; Genetic engineering**

## ScienceDirect

644. Adhesion and splash dispersal of *Salmonella enterica* Typhimurium on tomato leaflets: Effects of rdar morphotype and trichome density / Cevallos, J.M.C., Gu, G., Danyluk, M.D., van Bruggen, A.H.C.  
*International Journal of Food Microbiology*, Volume 160, Issue 1, p. 58-64, 1 November 2012, ISSN 0168-1605  
**Keywords: Salmonella; Adhesion; Attachment; Rain; Trichome**

645. Bioactive phytochemicals in industrial tomatoes and their processing byproducts / Kalogeropoulos, N., Chiou, A., Pyriochou, V., Peristeraki, A., Karathanos, V.T.  
*LWT - Food Science and Technology*, Volume 49, Issue 2, p. 213-216, December 2012, ISSN 0023-6438  
**Keywords: Antioxidants; Carotene; Lycopene; Tocopherols; Sterols; Terpenes; Polyphenols; DPPH; FRAP; Tomato byproducts**
646. Effect of high pressure homogenization (HPH) on the rheological properties of tomato juice: Time-dependent and steady-state shear / Augusto, P.E.D., Ibarz, A., Cristianini, M.  
*Journal of Food Engineering*, Volume 111, Issue 4, p. 570-579, August 2012, ISSN 0260-8774  
**Keywords: Food properties; High pressure homogenization; Rheology; Viscosity**
647. Effect of rotating tray drying on antioxidant components, color and rehydration ratio of tomato saladette slices / Sánchez, N.F.S., Blanco, R.V., Gómez, M.S.G., Herrera, A.P., Coronado, R.S.  
*LWT - Food Science and Technology*, Volume 46, Issue 1, p. 298-304, April 2012, ISSN 0023-6438  
**Keywords: Tomato dehydration; Rotating tray dryer; Lycopene; Ascorbic acid; Total polyphenols; Color measuring**
648. Effect of tomato industrial processing on phenolic profile and hydrophilic antioxidant capacity / Queralt, A.V., Remón, A.M., Ribes, I.C., Lacueva, C.A., Waterhouse, A.L., Raventos, R.M.L.  
*LWT - Food Science and Technology*, Volume 47, Issue 1, p. 154-160, June 2012, ISSN 0023-6438  
**Keywords: Tomatoes; Phenolics; Processing; Hydrophilic antioxidant capacity; HPLC-MS/MS**
649. Evaluation of tomato textural mechanical properties / Sirisomboon, P., Tanaka, M., Kojima, T.  
*Journal of Food Engineering*, Volume 111, Issue 4, p. 618-624, August 2012, ISSN 0260-8774  
**Keywords: Tomato; Maturity; Texture; Mechanical properties; Puncture test; Plate compression test**
650. Factors affecting the postharvest soluble solids and sugar content of tomato (*Solanum lycopersicum L.*) fruit / Beckles, D.M.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 129-140, January 2012, ISSN 0925-5214  
**Keywords: Tomato fruits; Total soluble solids; Sugars; Fruit quality; Postharvest**



651. Influence of post-harvest UV-C hormesis on lycopene,  $\beta$ -carotene, and phenolic content and antioxidant activity of breaker tomatoes / Bravo, S., Alonso, J.G., Pozuelo, G.M., Gómez, V., Santaella, M., González, I.N., Periago, M.J.  
*Food Research International*, Volume 49, Issue 1, p. 296-302, November 2012, ISSN 0963-9969  
**Keywords: Tomato; Bioactive compounds; Lycopene; Carotene; Phenolic compounds; Antioxidant activity; UV-C hormesis**
652. Influence of preharvest application of fungicides on the postharvest quality of tomato (*Solanum lycopersicum L.*) / Domínguez, I., Ferreres, F., Pascual del Riquelme, F., Font, R., Gil, M.I.  
*Postharvest Biology and Technology*, Volume 72, p. 1-10, October 2012, ISSN 0925-5214  
**Keywords: Quality; Lycopene; Ascorbic acid; Antioxidants; Vitamin C; Phenolic compounds**
653. Intermittent warming during low temperature storage reduces tomato chilling injury / Biswas, P., East, A.R., Brecht, J.K., Hewett, E.W., Heyes, J.A.  
*Postharvest Biology and Technology*, Volume 74, p. 71-78, December 2012, ISSN 0925-5214  
**Keywords: Solanum lycopersicum; Chilling sensitivity; Ethylene production; Decay severity; Growing conditions**
654. Lycopene degradation, isomerization and in vitro bioaccessibility in high pressure homogenized tomato puree containing oil: Effect of additional thermal and high pressure processing / Knockaert, G., Pulissery, S.K., Colle, I., Van Buggenhout, S., Hendrickx, M., Van Loey, A.  
*Food Chemistry*, Volume 135, Issue 3, p. 1290-1297, 1 December 2012, ISSN 0308-8146  
**Keywords: Lycopene; Tomato puree; Isomerization; In vitro lycopene bioaccessibility; Thermal processing; High pressure processing**
655. Mechanical properties of tomato exocarp, mesocarp and locular gel tissues / Zhiguo, L., Pingping, L., Hongling, Y., Jizhan, L., Yunfeng, X.,  
*Journal of Food Engineering*, Volume 111, Issue 1, p. 82-91, July 2012, ISSN 0260-8774  
**Keywords: Tomato; Exocarp; Mesocarp; Locular gel; Mechanical properties; Finite element analysis**
656. Metabolite content of harvested Micro-Tom tomato (*Solanum lycopersicum L.*) fruit is altered by chilling and protective heat-shock treatments as shown by GC-MS metabolic profiling / Luengwilai, K., Saltveit, M., Beckles, D.M.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 116-122, January 2012, ISSN 0925-5214  
**Keywords: Metabolic profiling; GC-MS; Chilling injury; Heat shock; Tomato fruits**

657. Nondestructive estimation of maturity and textural properties on tomato 'Momotaro' by near infrared spectroscopy / Sirisomboon, P., Tanaka, M., Kojima, T., Williams, P. *Journal of Food Engineering*, Volume 112, Issue 3, p. 218-226, October 2012, ISSN 0260-8774  
**Keywords: Tomato; Momotaro; Maturity; Textural properties; Near infrared spectroscopy; Principal component analysis; Soft independent modeling of class analogy (SIMCA); Partial least square (PLS) regression**
658. Nondestructive evaluation of internal maturity of tomatoes using spatially offset Raman spectroscopy / Jianwei, Q., Kuanglin, C., Moon, S.K. *Postharvest Biology and Technology*, Volume 71, p. 21-31, September 2012, ISSN 0925-5214  
**Keywords: Raman spectroscopy; Subsurface detection; Tomato; Internal maturity; Carotenoids; Lycopene**

## 2013 ProQuest

659. Nature of tomatoes microflora under storage / Ajayi, A.O. *American Journal of Experimental Agriculture*, Volume 3, Issue 1, Mar 2013  
**Keywords: Tomatoes; Microorganisms; Food preservation; Storage**

## ScienceDirect

660. Arginase induction by heat treatment contributes to amelioration of chilling injury and activation of antioxidant enzymes in tomato fruit / Xinhua, Z., Lin, S., Fujun, L., Demei, M., Jiping, S., *Postharvest Biology and Technology*, Volume 79, p. 1-8, May 2013, ISSN 0925-5214  
**Keywords: Arginase; Chilling injury; Hot air; Tomato fruits; Proline; Antioxidant enzymes**
661. Degradation kinetics of lycopene,  $\beta$ -carotene and ascorbic acid in tomatoes during hot air drying / Demiray, E., Tulek, Y., Yilmaz, Y. *LWT - Food Science and Technology*, Volume 50, Issue 1, p. 172-176, January 2013, ISSN 0023-6438  
**Keywords: Tomato; Drying; Lycopene;  $\beta$ -carotenoids; Ascorbic acid**

662. Development and validation of a model to estimate postharvest losses during transport of tomatoes in West Africa / Venus, V., Kyei, D.K.A., Tijsskens, L.M.M., Weir, M.J.C., de Bie, C.A.J.M., Ouedraogo, S., Nieuwenhuis, W., Wesselman, S.L.M., Cappelli, G.A., Smaling, E.M.A.  
*Computers and Electronics in Agriculture*, Volume 92, p. 32-47, March 2013, ISSN 0168-1699  
**Keywords: Postharvest losses; West Africa; Transport; Satellite meteorology; Outside weather condition; Cryptoclimate**
663. Development of a rice starch-based coating with antioxidant and microbe-barrier properties and study of its effect on tomatoes stored at room temperature / Das, D.K., Dutta, H., Mahanta, C.L.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 272-278, January 2013, ISSN 0023-6438  
**Keywords: Edible films; Coating; Antioxidants; Antimicrobial; Amylose-lipid complex**
664. Diffusivity of 1-methylcyclopropene in spinach and bok choy leaf tissue, disks of tomato and avocado fruit tissue, and whole tomato fruit / Xiaoqing, D., Sánchez, M.R., Huber, D.J., Jingping, R., Zhengke, Z., Sun, T.C., Lee, J.H.  
*Postharvest Biology and Technology*, Volume 78, p. 40-47, April 2013, ISSN 0925-5214  
**Keywords: Avocado; Diffusion; Metabolism; 1-Methylcyclopropene; Ripening; Tomato**
665. Effect of delactosed whey permeate treatment on physico-chemical, sensorial, nutritional and microbial properties of whole tomatoes during postharvest storage / Ahmed, L., Diana, A.B.M., Rico, D., Ryan, C.B.  
*LWT - Food Science and Technology*, Volume 51, Issue 1, p. 367-374, April 2013, ISSN 0023-6438  
**Keywords: Delactosed whey permeate; Tomato; Quality; Antioxidants; Shelf life**
666. Effect of different parameters on enzyme-assisted extraction of lycopene from tomato processing waste / Ranveer, R.C., Patil, S.N., Sahoo, A.K.  
*Food and Bioproducts Processing*, 28 January 2013, ISSN 0960-3085  
**Keywords: Cellulase; Pectinase; Lycopene; Tomato; Solvent extraction**
667. Effect of gum arabic as an edible coating on antioxidant capacity of tomato (*Solanum lycopersicum* L.) fruit during storage / Ali, A., Maqbool, M., Alderson, P.G., Zahid, N.  
*Postharvest Biology and Technology*, Volume 76, p. 119-124, February 2013, ISSN 0925-5214  
**Keywords: Antioxidant capacity; Gaseous exchange; Gum arabic; Solanum lycopersicum**

668. Effect of high pressure homogenization (HPH) on the physical stability of tomato juice / Kubo, M.T.K., Augusto, P.E.D., Cristianini, M.  
*Food Research International*, Volume 51, Issue 1, p. 170-179, April 2013, ISSN 0963-9969  
**Keywords: Fruit juices; High pressure homogenization; Physical stability**
669. Effect of high pressure homogenization (HPH) on the rheological properties of tomato juice: Viscoelastic properties and the Cox–Merz rule / Augusto, P.E.D., Ibarz, A., Cristianini, M.  
*Journal of Food Engineering*, Volume 114, Issue 1, p. 57-63, January 2013, ISSN 0260-8774  
**Keywords: Food properties; High pressure homogenization; Rheology; Viscoelasticity; Viscosity**
670. Effect of postharvest UV-B irradiation on nutraceutical quality and physical properties of tomato fruits / Castagna, A., Chiavaro, E., Dall'Asta, C., Rinaldi, M., Galaverna, G., Ranieri, A.  
*Food Chemistry*, Volume 137, Issues 1–4, p. 151-158, 15 April 2013, ISSN 0308-8146  
**Keywords: Solanum lycopersicum; Postharvest UV-B irradiation; Physical properties; Ascorbic acid; Carotenoids**
671. Effect of ultrasound treatments of tomato pulp on microstructure and lycopene in vitro bioaccessibility / Anese, M., Mirolo, G., Beraldo, P., Lippe, G.  
*Food Chemistry*, Volume 136, Issue 2, p. 458-463, 15 January 2013, ISSN 0308-8146  
**Keywords: Ultrasound; Tomato; Lycopene; Structure; In vitro bioaccessibility**
672. Home conservation strategies for tomato (*Solanum lycopersicum*): storage temperature vs. duration – is there a compromise for better aroma preservation? / Renard, C.M.G.C., Ginies, C., Gouble, B., Bureau, S., Causse, M.  
*Food Chemistry*, 30 January 2013, ISSN 0308-8146  
**Keywords: Storage; Volatiles; Lipoxygenase; GC-MS; Accelerated solvent extraction**
673. Investigating physicochemical, volatile and sensory parameters playing a positive or a negative role on tomato liking / Piombino, P., Sinesio, F., Moneta, E., Cammareri, M., Genovese, A., Lisanti, M.T., Mogno, M.R., Peparajo, M., Termolino, P., Moio, L., Grandillo, S.  
*Food Research International*, Volume 50, Issue 1, p. 409-419, January 2013, ISSN 0963-9969  
**Keywords: Physicochemical parameters; Tomato; Sensory evaluation; Volatiles**
674. Kinetics of *Bacillus* coagulants spore inactivation in tomato juice by combined pressure–heat treatment / Daryaei, H., Balasubramaniam, V.M.  
*Food Control*, Volume 30, Issue 1, p. 168-175, March 2013, ISSN 0956-7135  
**Keywords: Kinetics; Combined pressure–heat treatment; Bacillus coagulants spore; Tomato juices**

675. Kinetics of changes in the physical quality parameters of fresh tomato fruits (*Solanum lycopersicum*, cv. 'Zinac') during storage / Pinheiro, J., Alegria, C., Abreu, M., Gonçalves, E.M., Silva, C.L.M.  
*Journal of Food Engineering*, Volume 114, Issue 3, p. 338-345, February 2013, ISSN 0260-8774  
**Keywords: Tomato; Storage conditions; Physical quality; Kinetics modelling**
676. Lycopene isomers in fresh and processed tomato products: Correlations with instrumental color measurements by digital image analysis and spectroradiometry / Stinco, C.M., Pulido, F.J.R., Gilete, M.L.E., Gordillo, B., Vicario, I.M., Martínez, A.J.M.  
*Food Research International*, Volume 50, Issue 1, p. 111-120, January 2013, ISSN 0963-9969  
**Keywords: Carotenoids; Colour; Digital image analysis; Lycopene; Lycopene isomers; Principal component analysis; Spectroradiometry; Tomato**
677. Method for evaluating fruit abscission potential of grapes and cherry tomato clusters / Vinokur, Y., Rodov, V., Levi, A., Kaplunov, T., Zutahy, Y., Lichter, A.  
*Postharvest Biology and Technology*, Volume 79, p. 20-23, May 2013, ISSN 0925-5214  
**Keywords: Table grapes; Cluster; Cherry tomatoes; Rachis; Shatter; Berry drop**
678. Processing tomato pulp in the presence of lipids: The impact on lycopene bioaccessibility / Colle, I.J.P., Lemmens, L., Van Buggenhout, S., Met, K., Van Loey, A.M., Hendrickx, M.E.  
*Food Research International*, Volume 51, Issue 1, p. 32-38, April 2013, ISSN 0963-9969  
**Keywords: Lycopene; Bioaccessibility; Processing; Lipids; Tomato**
679. Sorption characteristics of rosehip, apple and tomato pulp formulations as determined by gravimetric and hygrometric methods / Demarchi, S.M., Ruiz, N.A.Q., De Michelis, A., Giner, S.A.  
*LWT - Food Science and Technology*, Volume 52, Issue 1, p. 21-26, 7 January 2013, ISSN 0023-6438  
**Keywords: High-sugar foods; Fruits; Isotherm; Water activity**
680. Synergistic combination of physical treatments and carvacrol for *Escherichia coli* O157:H7 inactivation in apple, mango, orange, and tomato juices / Ouazzou, A.A., Espina, L., Gonzalo, D.G., Pagán, R.  
*Food Control*, Volume 32, Issue 1, p.159-167, July 2013, ISSN 0956-7135  
**Keywords: Food preservation; Escherichia coli O157:H7; Heat; Pulsed electric fields; Carvacrol; Juices**

681. Behavior of chlorpyrifos and its metabolite 3,5,6-trichloro-2-pyridinol in tomatoes during home canning / Yongtao, H., Wenming, L., Fengshou, D., Jun, X., Xingang, L., Yuanbo, L., Zhiqiang, K., Xuyang, L., Yongquan, Z.  
*Food Control*, Volume 31, Issue 2, p. 560-565, June 2013, ISSN 0956-7135  
**Keywords: Tomato; UPLC-MS/MS; Chlorpyrifos; 3,5,6-trichloro-2-pyridinol; Processing**

**Wortel  
2008  
CABI**

682. Antimicrobial effectiveness of bioactive packaging materials from edible chitosan and casein polymers: Assessment on carrot, cheese, and salami / Moreira, M. del R., Pereda, M., Marcovich, N.E., Roura, S.I.  
*Journal of Food Science*, Volume 76, Issue 1, p. 54-63, 2011, ISSN 0022-1147  
**Keywords: Edible films; Food system; Microbiological quality; Native microflora; Preservatives; Carrots**
683. Changes of bioactive compounds and anti-oxidant activity during cold storage of carrots / Koca, N., Karadeniz, F.  
*International Journal of Food Science & Technology*, Volumes 43, Issue 11, p. 2019-2025, 2008, ISSN 0950-5423  
**Keywords: Antioxidant activity; Carotenoids; Carrots; Colour; Phenolics; Storage; Trolox equivalent anti-oxidant capacity**
684. Combined microwave-vacuum and freeze drying of carrot and apple chips / Wei, C.Z., Yang, L.C., Fang, S.C., Yun, S.;  
*Drying Technology*, Volume 26, Issue 12, p. 1517-1523, 2008, ISSN 0737-3937  
**Keywords: Apple slice; Carrot slices; Colour; Freeze drying; Microwave vacuum drying; Shrinkage**
685. Correlations of carotene with sensory attributes in carrots under different storage conditions / Berger, M., Kuchler, T., Maassen, A., Stockfisch, M.B., Steinhart, H.  
*Food Chemistry*, Volumes 106, Issue 1, p. 235-240, 2008, ISSN 0308-8146  
**Keywords: Carrots; Carotene; Storage; Sensory attributes**
686. Drying characteristics of pulsed electric field-treated carrot / Gachovska, T. K., Adedeji, A.A., Ngadi, M., Raghavan, G.V.S.  
*Drying Technology*, Volume 26, Issue 10, p. 1244-1250, 2008, ISSN 0737-3937  
**Keywords: Carrots; Coefficient of diffusivity; Electropemabilization; Pulsed electric fields; Pretreatment**

687. Drying of foods using supercritical carbon dioxide - investigations with carrot / Brown, Z.K., Fryer, P.J., Norton, I.T., Bakalis, S., Bridson, R.H.  
*Innovative Food Science & Emerging Technologies*, Volumes 9, Issue 3, p. 280-289, 2008, ISSN 1466-8564  
**Keywords: Carrots; Air drying; Supercritical carbon dioxide; Drying kinetics; Microstructure**
688. Effect of adding ascorbic acid and glucose on the antioxidative properties during storage of dried carrot / Horng, Y.Y., Ho, S.C., Hui, C.C.  
*Food Chemistry*, Volumes 107, Issue 1, p. 265-272, 2008, ISSN 0308-8146  
**Keywords: Carrots; Antioxidants; Antioxidative activity; Drying; Storage**
689. Effect of modified atmosphere packaging on the quality and shelf life of minimally processed carrots / Ayhan, Z., Eştürk, O., Tas, E., Tubitak,  
*Turkish Journal of Agriculture and Forestry*, Volume 32, Issue 1, p. 57-64, 2008, ISSN 1300-011X  
**Keywords: Minimally processed carrots; Modified atmosphere packaging; Shelf life; Whiteness index; Ready to eat**
690. Effect of processing conditions on drying kinetics and particle microstructure of carrot / Reyes, A., Vega, R., Bustos, R., Araneda, C.  
*Drying Technology*, Volume 26, Issue 10, p. 1272-1285, 2008, ISSN 0737-3937  
**Keywords: Carrots; Freeze drying; Freezing; Models**
691. Effect of pulsed electric field and osmotic dehydration pretreatment on the convective drying of carrot tissue / Amami, E., Khezami, L., Vorobiev, E., Kechaou, N.  
*Drying Technology*, Volume 26, Issue 1/3, p. 231-238, 2008, ISSN 0260-8774  
**Keywords: Carrot tissue; Centrifugal osmotic dehydration time; Convective drying; Pulsed electric fields; Temperature of air drying**
692. Effect of vacuum-microwave drying on selected mechanical and rheological properties of carrot / Tepien, B.  
*Biosystems Engineering*, Volumes 99, Issue 2, p. 234-238, 2008, ISSN 1537-5110  
**Keywords: Carrots; Vacuum microwave; Drying; Moisture content**
693. Evaluation of physico-chemical and microbiological parameters in carrot stored under modified atmospheric packaging / Khan, K.A., Patel, M.B.  
*Journal of Agriculture*, Volume 8, Issue 2, p. 29-38, 2010, ISSN 1682-8348  
**Keywords: Modified atmosphere packaging; Polypropylene; Gas composition; Sugar content**

694. Influence of selected packaging materials on some quality aspects of pressure-assisted thermally processed carrots during storage / Ayvaz, H., Schirmer, S., Parulekar, Y., Balasubramaniam, V. M., Somerville, J.A., Daryaei, H.  
*Food Science and Technology*, Volumes 46, Issue 2, p. 437-447, 2012, ISSN 0023-6438  
**Keywords: Barrier properties; Packaging materials; Pressure-assisted thermal processing; High pressure processing; Baby carrots; Storage stability**
695. Integrated agrotechnology with preharvest ComCat® treatment, modified atmosphere packaging and forced ventilation evaporative cooling of carrots / Workneh, T.S., Osthoff, G., Steyn, M.S.  
*African Journal of Biotechnology*, Volume 8, Issue 24, p. 6972-6984, 2009, ISSN 1684-5315  
**Keywords: ComCat; Modified atmosphere packaging; Evaporative cooling; Temperature; Relative humidity; Carrots**
696. Isomerisation kinetics and antioxidant activities of  $\beta$ -carotene in carrots undergoing different drying techniques and conditions / Hiranvarachat, B., Suvarnakuta, P., Devahastin, S.  
*Food Chemistry*, Volume 107, Issue 4, p. 1538-1546, 2008, ISSN 0308-8146  
**Keywords: Antioxidant activity; Degradation; Hot air drying; Low-pressure superheated steam drying; Cis-trans isomerization; Vacuum drying**
697. Modeling the effect of perforations on modified atmosphere packaging of chopped carrot / Sharma, S.R., Chand, T.  
*Journal of Agricultural Engineering (New Delhi)*, Volume 45, Issue 2, p. 9-17, 2008, ISSN 0256-6524  
**Keywords: Chopped carrot; Perforations; Modified atmosphere packaging**
698. Modified atmosphere packaging of minimally processed carrot (*Daucus carota* L.) / Satwant, B., Singh, G., Rai, D.R., Shashipal  
*Journal of Dairying, Foods and Home Sciences*, Volume 30, Issue 4, p. 290-298, 2011, ISSN 0971-4456  
**Keywords: Modified atmosphere packaging; Minimally processed carrots }; Daucus carota; Permeability coefficient; Respiration rate; Polypropylene film package; Perforations**
699. Packaging strategies to prolong the shelf life of fresh carrots (*Daucus carota* L.) / Mastromatteo, M., Conte, A., Nobile, M.A.  
*Innovative Food Science & Emerging Technologies*, Volume 13, p. 215-220, 2012, ISSN 1466-8564  
**Keywords: Fresh carrots; Ethanol; Coating; MAP; Shelf life**



700. Predicting moisture profiles in potato and carrot during convective hot air drying using isothermally measured effective diffusivity / Srikiatden, J., Roberts, J.S., *Journal of Food Engineering*, Volume 84, Issue 4, p. 516-525, 2008, ISSN 0260-8774  
**Keywords: Drying; Diffusion; Potato; Carrots; Modelling; Isothermal; Convective**

## DOAJ

701. Effect of starch as an edible coating material on the process of osmotic dehydration of carrot in saccharose solution and sugar beet molasses / Levic, L.B., Koprivica, G.B., Misljenovic, N.M., Filipcevic, B.V., Šimurina, O.D., Kuljanin, T.A. *Acta Periodica Technologica*, 2008, Volume 39, p. 29-36, DOI: 10.2298/APT0839029L, ISSN 14507188  
**Keywords: Osmotic dehydration; Carrots; Edible films; Molasses; Saccharose**

## ScienceDirect

702. Drying of foods using supercritical carbon dioxide — Investigations with carrot / Brown, Z.K., Fryer, P.J., Norton, I.T., Bakalis, S., Bridson, R.H. *Innovative Food Science & Emerging Technologies*, Volume 9, Issue 3, p. 280-289, July 2008, ISSN 1466-8564  
**Keywords: Carrots; Air drying; Supercritical carbon dioxide; Drying kinetics; Microstructure**
703. Effect of a continuous low ozone exposure (50 L<sup>-1</sup>) on decay and quality of stored carrots / Hildebrand, P.D., Forney, C.F., Jun, S., Lihua, F., McRae, K.B. *Postharvest Biology and Technology*, Volume 49, Issue 3, p. 397-402, September 2008, ISSN 0925-5214  
**Keywords: Daucus carota; Botrytis cinerea; Sclerotinia sclerotiorum; Decay; Ozone**
704. Effect of beet and honey on quality improvement and carotene retention in a carrot fortified milk product / Bandyopadhyay, M., Chakraborty, R., Raychaudhuri, U. *Innovative Food Science & Emerging Technologies*, Volume 9, Issue 1, p. 9-17, January 2008, ISSN 1466-8564  
**Keywords: Beet; Honey; Carotene; Antioxidant activity; Sensory evaluation; Carrots**

705. Effect of osmotic dehydration on the dielectric properties of carrots and strawberries / Changrue, V., Orsat, V., Raghavan, G.S.V., Lyew, D.  
*Journal of Food Engineering*, Volume 88, Issue 2, p. 280-286, September 2008, ISSN 0260-8774  
**Keywords: Osmotic dehydration; Dielectric properties; Carrots; Strawberries**
706. Effect of pretreatments on carrot texture after thermal and pressure-assisted thermal processing / Rastogi, N.K., Loc, T.N., Balasubramaniam, V.M.  
*Journal of Food Engineering*, Volume 88, Issue 4, p. 541-547, October 2008, ISSN 0260-8774  
**Keywords: Carrots; Texture; Pressure-assisted thermal processing; Thermal processing; Pretreatment; Calcium infusion**
707. Effect of vacuum-microwave drying on selected mechanical and rheological properties of carrot / Stepień, B.  
*Biosystems Engineering*, Volume 99, Issue 2, p. 234-238, February 2008, ISSN 1537-5110  
**Keywords: Carrots; Vacuum microwave; Drying**
708. Predicting moisture profiles in potato and carrot during convective hot air drying using isothermally measured effective diffusivity / Srikiatden, J., Roberts, J.S.  
*Journal of Food Engineering*, Volume 84, Issue 4, p. 516-525, February 2008, ISSN 0260-8774  
**Keywords: Drying; Diffusion; Potato; Carrots; Modelling; Isothermal; Convective**

## TEEAL

709. Correlations of carotene with sensory attributes in carrots under different storage conditions / Matthia, B., Torbe, K., Andre, M., Mechthil, B.S., Hans  
*Food Chemistry*, Volume 106, Issue 1, p. 235-240, 2008, ISSN 0308-8146  
**Keywords: Biochemistry; Carrots; Carotene; Storage**
710. Effect of adding ascorbic acid and glucose on the antioxidative properties during storage of dried carrot / Yen-Yue, H., Shih-Chia, H., Chang-Ching, H.  
*Food Chemistry*, Volume 107, Issue 1, 2008, p. 265-272, ISSN 0308-8146  
**Keywords: Carrots; Storage; Ascorbic acid; Glucose; Antioxidative properties**

711. Isomerisation kinetics and antioxidant activities of beta-carotene in carrots undergoing different drying techniques and conditions / Bhudsawa, H., Peamsu, S., Sakamon, D. *Food Chemistry*, Volume 107, Issue 4, p. 1538-1546, 2008, ISSN 0308-8146  
**Keywords: Carrots;  $\beta$ -carotenoids; Drying; Isomerisation kinetics; Antioxidant activity**

## 2009 CABI

712. Detecting moisture loss of carrot samples during storage by hyperspectral imaging system / Firtha, F. *Acta Alimentaria (Budapest)*, Volumes 38, Issue 1, p. 55-66, 2009, ISSN 0139-3006  
**Keywords: Hyperspectral; Imaging system; Calibration; Noise; Real-time data reduction; Carrots; Moisture content**
713. Drying of carrot slices using infrared radiation / Kocabiyik, H.; Tezer, D. *International Journal of Food Science & Technology*, Volume 44, Issue 5, p. 953-959, 2009, ISSN 0950-5423  
**Keywords: Carrots; Drying rate; Infrared drying; Shrinkage; Specific energy consumption**
714. Effects of coating methods and storage periods on some qualitative characteristics of carrot during ambient storage / Bahri, M.H., Rashidi, M. *International Journal of Agriculture and Biology*, Volumes 11, Issue 4, p. 443-447, 2009, ISSN 1560-8530  
**Keywords: Carrots; Ambient storage; Carbon methyl cellulose; Storage period; Total soluble solids; Reducing sugars; Firmness**
715. Effects of relative humidity, coating methods and storage periods on some qualitative characteristics of carrot during cold storage / Rashidi, M., Bahri, M.H., Abbassi, S. *American-Eurasian Journal of Agricultural and Environmental Science*, Volume 5, Issue 3, p. 359-367, 2009, ISSN 1818-6769  
**Keywords: Carrots; Cold storage; Relative humidity; Carboxymethylcellulose; Storage period; Total soluble solids; Reducing sugars; Firmness**
716. Experimental and theoretical analysis of drying carrots / Kaya, A., Aydin, O., Demirtas, C. *Desalination*, Volume 237, Issue 2/3, p. 285-295, 2009, ISSN 0011-9164  
**Keywords: Convective drying; Experimentation; Numerical; Carrots; Drying kinetics; Effective diffusivity; Activation energy; Relative humidity**

717. Influence of the applied acoustic energy on the drying of carrots and lemon peel / García-Pérez, J.V., Cárcel, J.A., Riera, E., Mulet, A., Hua, W.Z., Mujumdar, A.S. *Drying Technology*, Volume 27, Issue 2, 2009, p. 281-287, ISSN 0737-3937  
**Keywords: Drying; Modelling; Porosity; Power ultrasound**
718. Interactive effects of coating method and storage period on quality of carrot (cv. Nantes) during ambient storage / Rashidi, M., Bahri, M.H. *Journal of Agricultural and Biological Science*, Volumes 4, Issue 3, p. 29-35, 2009, ISSN 1990-6145  
**Keywords: Carrots; Ambient storage; Carboxymethylcellulose; Cellophane film; Storage period**
719. Interactive effects of relative humidity, coating method and storage period on quality of carrot (cv. Nantes) during cold storage / Rashidi, M., Bahri, M.H. *Journal of Agricultural and Biological Science*, Volume 4, Issue 2, p. 26-34, 2009, ISSN 1990-6145  
**Keywords: Carrots; Cold storage; Relative humidity; Carboxy methyl cellulose; Cellophane film; Storage period**
720. Mathematical modelling of thin-layer drying of carrot / Aghbashlo, M., Kianmehr, M.H., Khani, S., Ghasemi, M. *International Agrophysics*, Volume 23, Issue 4, p. 313-317, 2009, ISSN 0236-8722  
**Keywords: Carrots; Thin layer drying; Mathematical modelling; Arrhenius equation**
721. Model for convective drying of carrots for pyrolysis / Berruti, F.M., Klaas, M., Briens, C., Berruti, F. *Journal of Food Engineering*, Volume 92, Issue 2, p. 196-201, 2009, ISSN 0260-8774  
**Keywords: Carrots; Drying; Diffusion; Mass transfer; Mathematical modelling; Shrinkage**
722. Modelling the effect of different sterilisation treatments on antioxidant activity and colour of carrot slices during storage / Patras, A., Tiwari, B.K., Brunton, N.P., Butler, F. *Food Chemistry*, Volumes 114, Issue 2, p. 484-491, 2009, ISSN 0308-8146  
**Keywords: Sterilisation; Carrots; Modelling; Antiradical power**
723. Performance analysis of drying of carrot slices in a semi-industrial continuous band dryer / Aghbashlo, M., Kianmehr, M.H., Arabhosseini, A. *Journal of Food Engineering*, Volume 91, Issue 1, p. 99-108, 2009, ISSN 0260-8774  
**Keywords: Continuous band dryer; Carrot slices; Exergy and energy; Thin layer drying**

724. Pulsed electric field treatment of carrots before drying and rehydration / Gachovska, T. K., Simpson, M.V., Ngadi, M.O., Raghavan, G.S.V.  
*Journal of the Science of Food and Agriculture*, Volume 89, Issue 14, p. 2372-2376, 2009, ISSN 0022-5142  
**Keywords: Pulsed electric fields; Blanching; Drying; Rehydration; Carrots**
725. Studies on drying of purple carrot roots / Witrowa, R.D., Bawoł, A., Czapski, J., Kidon, M., Adamiec, J., Kudra, T.  
*Drying Technology*, Volume 27, Issue 12, p. 1325-1331, 2009, ISSN 0737-3937  
**Keywords: Antioxidant capacity; Apparent density; Drying kinetics; Polyphenols; Purple carrot; Rehydration**

## DOAJ

726. Co-fermentation of cassava/cowpea/carrot to produce infant complementary food of improved nutritive quality / Oyarekua, M.A.  
*Asian Journal of Clinical Nutrition*, 2009, Volume 1, Issue 3, p. 120-130, ISSN/EISSN: 19921470 20772033  
**Keywords: Co-fermentation; Cassava; Cowpea; Carrots;  $\beta$ -carotenoids; Amino acids**

## ScienceDirect

727. Carrot pectin methylesterase and its inhibitor from kiwi fruit: Study of activity, stability and inhibition / Jolie, R.P., Duvetter, T., Houben, K., Clynen, E., Sila, D.N., Van Loey, A.M., Hendrickx, M.E.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 4, p. 601-609, October 2009, ISSN 1466-8564  
**Keywords: Pectin methylesterase (PME); Pectin methylesterase inhibitor (PMEI); Catalytic activity; Enzyme stability; Inhibition; Thermal and high pressure processing**
728. Combining physical, chemical and biological methods for synergistic control of postharvest diseases: A case study of black root rot of carrot / Eshel, D., Regev, R., Orenstein, J., Droby, S., Mor, S.G.  
*Postharvest Biology and Technology*, Volume 54, Issue 1, p. 48-52, October 2009, ISSN 0925-5214  
**Keywords: Biological control; Carrots; Postharvest disease; Steam; Thielaviopsis basicola**

729. Development of a new mathematical model for inactivation of *Escherichia coli* O157:H7 and *Staphylococcus aureus* by high hydrostatic pressure in carrot juice and peptone water / Çelik, M.P., Buzrul, S., Alpas, H., Bozoğlu, F.  
*Journal of Food Engineering*, Volume 90, Issue 3, p. 388-394, February 2009, ISSN 0260-8774  
**Keywords: High hydrostatic pressure; Escherichia coli; Staphylococcus aureus; Carrot juice; Predictive microbiology**
730. Edible coatings containing chitosan and moderate modified atmospheres maintain quality and enhance phytochemicals of carrot sticks / Simões, A.D.N., Tudela, J.A., Allende, A., Puschmann, R., Gil, M.I.  
*Postharvest Biology and Technology*, Volume 51, Issue 3, p. 364-370, March 2009, ISSN 0925-5214  
**Keywords: Daucus carota; Minimally processed; Fresh-cut; Ready to eat; MAP; Ascorbic acid; Carotenoids; Polyphenols**
731. Effect of chitosan-based edible coatings applied by vacuum impregnation on quality preservation of fresh-cut carrot / Vargas, M., Chiralt, A., Albors, A., Martínez, C.G.  
*Postharvest Biology and Technology*, Volume 51, Issue 2, p. 263-271, February 2009, ISSN 0925-5214  
**Keywords: Oleic acid; Methylcellulose; Water vapour resistance; Mechanical properties; Colour; Respiration rate**
732. Effect of exogenous ethylene and methyl jasmonate on pal activity, phenolic profiles and antioxidant capacity of carrots (*Daucus carota*) under different wounding intensities / Heredia, J.B., Zevallos, L.C.  
*Postharvest Biology and Technology*, Volume 51, Issue 2, p. 242-249, February 2009, ISSN 0925-5214  
**Keywords: Carrots; Chlorogenic acid; Antioxidant capacity; Methyl jasmonate; Ethylene; Wounding; PAL activity**
733. Effect of high pressure carbon dioxide on the quality of carrot juice / Zhou, L., Wang, Y., Hu, X., Wu, J., Liao, X.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 3, p.321-327, July 2009, ISSN 1466-8564  
**Keywords: High pressure carbon dioxide; Carrot juice; Colour; Cloud; Particle size distribution**
734. Effect of thermal and high pressure processing on antioxidant activity and instrumental colour of tomato and carrot purées / Patras, A., Brunton, N., Da Pieve, S., Butler, F., Downey, G.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 1, p. 16-22, January 2009, ISSN 1466-8564  
**Keywords: High pressure processing; Tomato; Carrots; Puree; Antioxidant activity; PCA**

735. Impact of a decontamination step with peroxyacetic acid on the shelf-life, sensory quality and nutrient content of grated carrots packed under equilibrium modified atmosphere and stored at 7°C / Vandekinderen, I., Devlieghere, F., van Camp, J., Denon, Q., Alarcon, S.S., Ragaert, P., De Meulenaer, B.  
*Postharvest Biology and Technology*, Volume 54, Issue 3, p. 141-152, December 2009, ISSN 0925-5214  
**Keywords: Disinfection; EMAP; Spoilage; Sensory quality; Antioxidants; Carotenoids**
736. Mathematical modeling of the influence of temperature and gas composition on the respiration rate of shredded carrots / Iqbal, T., Rodrigues, F.A.S., Mahajan, P.V., Kerry, J.P.  
*Journal of Food Engineering*, Volume 91, Issue 2, p. 325-332, March 2009, ISSN 0260-8774  
**Keywords: Fresh produce; Modified atmosphere packaging; Packaging**
737. Matrix dependent impact of sugar and ascorbic acid addition on color and anthocyanin stability of black carrot / Sadilova, E., Stintzing, F.C., Kammerer, D.R., Carle, R.  
*Food Research International*, Volume 42, Issue 8, p. 1023-1033, October 2009, ISSN 0963-9969  
**Keywords: Anthocyanins; Colour; Heat stability; Thermal degradation; Black carrot; Elderberry; Strawberry; Ascorbic acid; Saccharides**
738. Model for convective drying of carrots for pyrolysis / Berruti, F.M., Klaas, M., Briens, C., Berruti, F.  
*Journal of Food Engineering*, Volume 92, Issue 2, p. 196-201, May 2009, ISSN 0260-8774  
**Keywords: Carrots; Drying; Diffusion; Mass transfer; Mathematical modelling; Shrinkage**
739. Performance analysis of drying of carrot slices in a semi-industrial continuous band dryer / Aghbashlo, M., Kianmehr, M.H., Arabhosseini, A.  
*Journal of Food Engineering*, Volume 91, Issue 1, p. 99-108, March 2009, ISSN 0260-8774,  
**Keywords: Continuous band dryer; Carrot slices; Exergy and energy; Thin layer drying**
740. Quality attributes of shredded carrot (*Daucus carota L. cv. Nantes*) as affected by alternative decontamination processes to chlorine / Alegria, C., Pinheiro, J., Gonçalves, E.M., Fernandes, I., Moldão, M., Abreu, M.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 1, p. 61-69, January 2009, ISSN 1466-8564,  
**Keywords: Shredded carrot; Ozonated-water; Ultrasonication; Hot water; Processing; Microbiological quality; Sensory quality**

741. Sensory perception and quality attributes of high pressure processed carrots in comparison to raw, sous-vide and cooked carrots / Araya, X.I.T., Smale, N., Zabarás, D., Winley, E., Forde, C., Stewart, C.M., Mawson, A.J.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 4, p. 420-433, October 2009, ISSN 1466-8564  
**Keywords: High pressure processing; Sous vide; Cooked carrots; Sensory perception; Quality**
742. Temperature effect on the rheological behavior of carrot juices / Vandresen, S., Quadri, M.G.N., de Souza, J.A.R., Hotza, D.  
*Journal of Food Engineering*, Volume 92, Issue 3, p. 269-274, June 2009, ISSN 0260-8774  
**Keywords: Modelling; Activation energy; Physicochemical characterization; Thermal treatment**
743. Thermal pretreatments of carrot pieces using different heating techniques: Effect on quality related aspects / Lemmens, L., Tibäck, E., Svelander, C., Smout, C., Ahrné, L., Langton, M., Alminger, M., van Loey, A., Hendrickx, M.  
*Innovative Food Science & Emerging Technologies*, Volume 10, Issue 4, p. 522-529, October 2009, ISSN 1466-8564  
**Keywords: Carrots; Thermal pretreatments; Quality related enzymes; Structure;  $\beta$ -carotenoids; Microwave heating; Ohmic heating; Conventional heating**
744. Towards a better understanding of the relationship between the  $\beta$ -carotene in vitro bioaccessibility and pectin structural changes: A case study on carrots / Lemmens, L., van Buggenhout, S., Oey, I., van Loey, A., Hendrickx, M.  
*Food Research International*, Volume 42, Issue 9, p. 1323-1330, November 2009, ISSN 0963-9969  
**Keywords:  $\beta$ -carotenoids; Carrots; In vitro bioaccessibility; Pre-processing; Structure**

## TEEAL

745. Modelling the effect of different sterilisation treatments on antioxidant activity and colour of carrot slices during storage / Patras, A., Tiwari, B.K., Brunton, N.P., Butler, F.  
*Food Chemistry*, Volume 114, Issue 2, p. 484-491, 2009, ISSN 0308-8146  
**Keywords: Modelling; Sterilisation; Carrots; Food storage; Quality; Antioxidant activity; Colour parameter**



## 2010 CABI

746. Air impingement drying characteristics and quality of carrot cube / Wei, X.H., Jiang, G.Z., Hai, L., Xia, Y.W.  
*Journal of Food Process Engineering*, Volume 33, Issue 5, p. 899-918, 2010, ISSN 0145-8876  
**Keywords: Carrots; Drying; Quality**
747. Carrot volatiles monitoring and control in microwave drying / Feng, L.Z., Raghavan, G.S.V., Wang, N.  
*Food Science and Technology*, Volume 43, Issue 2, p. 291-297, 2010, ISSN 0023-6438  
**Keywords: Carrots; Aroma; Microwave; Drying; Fuzzy logic; Electronic nose**
748. Evaluation of high pressure pretreatment for enhancing the drying rates of carrot, apple, and green bean / Yucel, U., Alpas, H., Bayindirli, A.  
*Journal of Food Engineering*, Volume 98, Issue 2, p. 266-272, 2010, ISSN 0260-8774  
**Keywords: Drying; High hydrostatic pressure; Apple; Carrots; Green beans**
749. Postharvest handling activities of cabbage (*Brassica oleracea* var *capitata*), carrot (*Daucus carota*) and garden eggs (*Solanum melongena*) in Kumasi, Ghana / Ap.iah, F., Kumah, P., Odame, E.A.  
*Ghana Journal of Horticulture*, Volume 8, p. 78-84, 2010, ISSN 0855-6350  
**Keywords: Carrots; Cabbages; Garden eggs; Postharvest technology**
750. Studies on different combined microwave drying of carrot pieces / Qiang, Y.W., Min, Z., Lue, H.L., Tang, J.M., Mujumdar, A.S., Cai, S.J.  
*International Journal of Food Science & Technology*, Volume 45, Issue 10, p. 2141-2148, 2010, ISSN 0950-5423  
**Keywords: Carotene; Colour; Combined microwave drying; Drying rate; Drying uniformity; Rehydration ratio**
751. Yield and nutritive value of selected carrot cultivars with orange - and purple - colored storage roots / Majkowska, G.J., Wierzbicka, B.  
*Acta Scientiarum Polonorum - Hortorum Cultus*, Volumes 9, Issue 4, p. 75-84, 2010, ISSN 1644-0692  
**Keywords: Carrots; Crop care; Yields; L-ascorbic acid; Sugars total; Macroelements**

## DOAJ

752. Optimization of processing parameters for clarification of blended carrot-orange juice and improvement of its carotene content / Karangwa, E., Khizar, H., Rao, L., Nshimiyimana, D.S., Foh, M.B.K., Li, L., Xia, S.Q. and Zhang, X.M.  
*Advance Journal of Food Science and Technology*, Volume 2, Issue 5, p. 268-278, 2010, ISSN/EISSN: 20424868 20424876  
**Keywords: Blended carrot-orange juice; Carotene content; Enzyme clarification; 2- hydroxypropyl- $\beta$  and ( $\gamma$ -Cyclodextrin); Response surface methodology**

## GREENR

753. Feasibility and economic evaluation of low-cost evaporative cooling system in fruit and vegetables storage / Workneh, S.T.  
*African Journal of Food, Agriculture, Nutrition and Development*, Volume 10, Issue 8, p. 2984 - 2997, Agustus 2010, ISSN 1684 5374  
**Keywords: Cooling; Fruits; Vegetables; Feasibility; Storage**

## ProQuest

754. Could toronto provide 10% of carotenes content in carrot roots (*Daucus carota* l.) as affected by cultivation and storage / Fikselová, M., Marecek, J., Mellen, M.  
*Vegetable Crops Research Bulletin*, Volume 73, p. 47, 2010, ISSN 1506-9427  
**Keywords: Carrots; Roots; Carotene; Storage**
755. Effect of foliar nutrition with urea, molybdenum, sucrose and benzyladenine on yield and some organic compounds of carrot storage roots / Smolen, S., Sady, W.  
*Vegetable Crops Research Bulletin*, Volume 72, p. 93, 2010, ISSN 1506-9427  
**Keywords: Carrots; Roots; Storage; Foliar nutrition; Organic compound**
756. Variation in content of carotenoids and vitamin C in carrots / Matejková, J., Petříková, K.  
*Notulae Scientia Biologicae*, Volume 2, Issue 4, p. 88, 2010, ISSN 20673205  
**Keywords: Carrots; Storage; Carotenoids; Vitamin C**

757. Anatomical and physiological evidence of white blush on baby carrot surfaces / Adriano do N. Simões, Ventrella, M.C., Moretti, C.L., Carnelossi, M.A.G., Puschmann, R.  
*Postharvest Biology and Technology*, Volume 55, Issue 1, January 2010, p. 45-52, ISSN 0925-5214  
**Keywords: Daucus carota; Minimally processed; Cell structure; White blush; Dehydration; Lignification; Suberization**
758. Antilisterial activity of carrots: Effect of temperature and properties of different carrot fractions / Noriega, E., Newman, J., Saggars, E., Robertson, J., Laca, A., Díaz, M., Brocklehurst, T.F.  
*Food Research International*, Volume 43, Issue 10, December 2010, p. 2425-2431, ISSN 0963-9969  
**Keywords: Listeria monocytogenes; Sliced carrots; Carrot juice; Alcohol-insoluble extract; Antilisterial effects**
759. Antioxidant phytochemicals in fresh-cut carrot disks as affected by peeling method / Kenny, O., O'Beirne, D.  
*Postharvest Biology and Technology*, Volume 58, Issue 3, December 2010, p. 247-253, ISSN 0925-5214  
**Keywords: Antioxidants; Phytochemical; Fresh-cut; Minimally processed; Fruits; Vegetables**
760. Bioavailability of  $\beta$ -carotene isomers from raw and cooked carrots using an in vitro digestion model coupled with a human intestinal Caco-2 cell model / Aherne, S.A., Daly, T., Jiwan, M.A., O'Sullivan, L., O'Brien, N.M.  
*Food Research International*, Volume 43, Issue 5, June 2010, p. 1449-1454, ISSN 0963-9969,  
**Keywords: In vitro digestion; Micelles;  $\beta$ -carotene isomers; Carrots; Caco-2 cells; Uptake; Transport**
761. Carrot (*Daucus carota L.*) peroxidase inactivation, phenolic content and physical changes kinetics due to blanching / Gonçalves, E.M., Pinheiro, J., Abreu, M., Brandão, T.R.S., Silva, C.L.M.  
*Journal of Food Engineering*, Volume 97, Issue 4, April 2010, p. 574-581, ISSN 0260-8774  
**Keywords: Carrots; Blanching; Kinetic models; Quality; Peroxidase enzyme; Total phenols; Colour; Texture**

762. Effect of freezing compared with chilling on selected physico-chemical and sensory properties of sous vide cooked carrots / Tansey, F., Gormley, R., Butler, F.  
*Innovative Food Science & Emerging Technologies*, Volume 11, Issue 1, January 2010, p. 137-145, ISSN 1466-8564  
**Keywords: Sous vide; Freezing; Chilling; Cooking; Texture; Quality; Sensory; Microscopy**
763. Evaluation of a pre-cut heat treatment as an alternative to chlorine in minimally processed shredded carrot / Alegria, C., Pinheiro, J., Gonçalves, E.M., Fernandes, I., Moldão, M., Abreu, M.  
*Innovative Food Science & Emerging Technologies*, Volume 11, Issue 1, January 2010, p. 155-161, ISSN 1466-8564  
**Keywords: Shredded carrot; Heat treatment; Microbiological quality; Sensory quality; Shelf life**
764. Evaluation of high pressure pretreatment for enhancing the drying rates of carrot, apple, and green bean / Yucel, U., Alpas, H., Bayindirli, A.  
*Journal of Food Engineering*, Volume 98, Issue 2, May 2010, p. 266-272, ISSN 0260-8774  
**Keywords: Drying; High hydrostatic pressure; Apple; Carrots; Green beans**
765. Improving the hardness of thermally processed carrots by selective pretreatments / De Roeck, A., Mols, J., Sila, D.N., Duvetter, T., Van Loey, A., Hendrickx, M.  
*Food Research International*, Volume 43, Issue 5, June 2010, p. 1297-1303, ISSN 0963-9969  
**Keywords: Carrots; Texture; Thermal processing;  $\beta$ -elimination; Degree of pectin methyl-esterification; pH; Ferulic acid**

## 2011 CABI

766. Accumulation of chemical compounds in carrot storage roots under different light conditions / Gajewski, M., Szymczak, P., Bajer, M., Sereda, A.  
*Horticulture and Landscape Architecture*, Volumes 32, p. 15-23, 2011, ISSN 0208-5747  
**Keywords: Carrots; Solar radiation; Nitrates; Sugars;  $\beta$ -carotenoids; Dry matter**
767. An experimental analysis of acoustic drying of carrots: evaluation of heat transfer coefficients in different drying conditions / Aversa, M., Voort van der, A.J., de Heij, W., Tournois, B., Curcio, S.  
*Drying Technology*, Volume 29, Issue 2, p. 239-244, 2011, ISSN 0737-3937  
**Keywords: Convective drying; Foods; Transport phenomena; Ultrasound**

768. Effect of preharvest treatment, disinfection and storage environment on quality of carrots / Seyoum, I., Osthoff, G., Steyn, M.S., Engelbrecht, G.M., Pretorius, J.C. *Journal of Food Processing and Preservation*, Volumes 35, Issue 3, p. 331-341, 2011, ISSN 0145-8892  
**Keywords: Carrots; Postharvest sprays; Comcat treatment; Disinfection; Storage**
769. Effects of acid pretreatments on some physicochemical properties of carrot undergoing hot air drying / Hiranvarachat, B., Devahastin, S., Chiewchan, N. *Food and Bioproducts Processing*, Volume 89, Issue 2, 2011, ISSN 0960-3085  
**Keywords:  $\beta$ -carotenoids; Blanching; Carrots; Citric acid; Cis–trans isomerization; Microstructure; Physicochemical properties; Pretreatment; Soaking**
770. How to meet the freeze drying standard in combined drying processes: pre and finish drying of carrot dice / Rother, M., Steimle, P., Gaukel, V., Schuchmann, H.P. *Drying Technology*, Volumes 29, Issue 3, p. 266-277, 2011, ISSN 0737-3937  
**Keywords: Combined drying; Freeze drying; Microwave drying; Quality; Time saving**
771. Improvement of convective drying of carrot by applying power ultrasound - influence of mass load density / Cárcel, J.A., Garcia, P.J.V., Riera, E., Mulet, A. *Drying Technology*, Volume 29, Issue 2, p. 174-182, 2011  
**Keywords: Dehydration; Effective diffusivity; High-intensity ultrasound; Modelling**
772. Microwave vacuum drying of shredded carrots and its nutritional evaluation / Chaughule, V.A., Thorat, B.N. *International Journal of Food Engineering*, Volume 7, Issue 4, 2011, ISSN 1556-3758  
**Keywords: Carrots; Microwave drying; Response surface methodology; Quality**
773. Modelling the carrot thin-layer drying in a semi-industrial continuous band dryer / Aghbashlo, M., Kianmehr, M.H., Arabhosseini, A., Nazghelichi, T. *Czech Journal of Food Sciences*, Volume 29, Issue 5, p. 528-538, 2011, ISSN 1212-1800  
**Keywords: Carrots; Thin layer drying; Mathematical modelling; Semi-industrial-continuous band dryer; Effective moisture diffusivity**
774. Periods of constant and falling-rate for infrared drying of carrot slices / Botelho, F.M., Corrêa, P.C., Goneli, A.L.D., Martins, M.A., Magalhães, F.E.A., Campos, S.C. *Revista Brasileira de Engenharia Agrícola e Ambiental*, Volume 15, Issue 8, p. 845-852, 2011, ISSN 1415-4366  
**Keywords: Modelling; Dehydration; Water diffusion**

775. Prediction of carrot cubes drying kinetics during fluidized bed drying by artificial neural network / Nazghelichi, T., Kianmehr, M.H., Aghbashlo, M.  
*Journal of Food Science and Technology*, Volume 48, Issue 5, p. 542-550, 2011, ISSN 0022-1155  
**Keywords: Fluidized bed drying; Moisture ratio; Drying rate; Neural network; Carrot cubes**
776. Stability of black carrot anthocyanins in the Turkish delight (lokum) during storage / Özen, G., Akbulut, M., Artık, N.  
*Journal of Food Process Engineering*, Volumes 34, Issue 4, p. 1282-1297, 2011, ISSN 0145-8876  
**Keywords: Black carrot; Juice concentrate; Anthocyanins; Storage**
777. Stability of different fruit juices mixed with black carrot juice during storage / El-Hashimy, F.S.A., Helmy, S.A., El-Dkak, A.M.N.H., Ibrahim, I.M.A.  
*International Journal of Academic Research*, Volumes 3, Issue 6, p. 294-302, 2011, ISSN 2075-4124  
**Keywords: Black carrot juice; Fruit juices; Sensory evaluation; Food Analysis; Testing; Storage**
778. Yield and quality effects of electroplasmolysis and microwave applications on carrot juice production and storage / Rayman, A., Baysal, T.  
*Journal of Food Science*, Volumes 76, Issue 4, p. 598-605, 2011, ISSN 0022-1147  
**Keywords: Carrot juice; Electroplasmolysis; Microwave heating; Quality; Yields**

## DOAJ

779. Enhancement of juice recovery from carrot using 2-stage pressing with ohmic heating / Ranmode, S., Kulshreshtha, M.  
*Journal of Engineering Science and Technology*, Volume 6, Issue 2, p. 228-239, 2011, ISSN/EISSN: 18234690  
**Keywords Carrot juice; Ohmic heating; 2-stage juice expression; Juice quality; Response surface methodology**

## GREENR

780. Analysis of the bacterial community within carrot wash water / Hausdorf, L., Froning, A., Schluter, O., Klocke, M.  
*Canadian Journal of Microbiology*, Volume 57, Issue 5, p. 447-452, 2011  
**Keywords: Arcobacter; Postharvest processing; Fresh produce; 16S rRNA gene clone; ARDRA**
781. Evaluating post harvest opportunities and constraints to utilization and marketing of African leafy vegetables in Cameroon / Berinyuy, J.E., Fontem, D.A.  
*African Journal of Food, Agriculture, Nutrition and Development*, Volume 11, Issue 2, p. 4647-4663, March 2011, ISSN 1684 5374  
**Keywords: Indigenous; Vegetables; Marketing; Processing; Women**

## ProQuest

782. Effect of various nitrogen fertilization regimes on the concentration of thirty three elements in carrot (*Daucus Carota* L.) storage roots / Smolen, S., Sady, W., Wierzbinska, J.  
*Vegetable Crops Research Bulletin*, Volume 74, p. 61, 2011, ISSN 1506-9427  
**Keywords: Carrots; Roots; Storage; Chemical composition**
783. Evaluation of anthocyanin stability during storage of a coloured drink made from extracts of the Andean blackberry (*Rubus glaucus* Benth.), açai (*Euterpe oleracea* Mart.) and black carrot (*Daucus carota* L.) / Zozio, S., Pallet, D., Dornier, M.  
*Fruits*, Volume 66, Issue 3, p. 203-215, May 2011, ISSN 0248-1294  
**Keywords: Carrots; Storage; Beverages; Anthocyanins; Stability; Storage**

## ScienceDirect

784. Adapted thermal imaging for the development of postharvest precision steam-disinfection technology for carrots / Gan-Mor, S., Regev, R., Levi, A., Eshel, D.  
*Postharvest Biology and Technology*, Volume 59, Issue 3, p. 265-271, March 2011, ISSN 0925-5214  
**Keywords: Carrots; Postharvest disease; Steam; Hydro-cooling; Thermal; Imaging**

785. Barrier and mechanical properties of carrot puree films / Xinwei, W., Xiuxiu, S., Huan, L., Ming, L., Zhongsu, M.  
*Food and Bioproducts Processing*, Volume 89, Issue 2, p. 149-156, April 2011, ISSN 0960-3085  
**Keywords: Carrot puree; Edible films; Water vapor permeability; Oxygen permeability; Mechanical properties; Colour**
786. Black carrot (*Daucus carota ssp. sativus*) juice: Processing effects on antioxidant composition and color / Khandare, V., Walia, S., Singh, M., Kaur, C.  
*Food and Bioproducts Processing*, Volume 89, Issue 4, p. 482-486, October 2011, ISSN 0960-3085  
**Keywords: Anthocyanins; Antioxidant activity; Black carrot juice; Enzyme-assisted processing; Phenolics; Colour**
787. Effectiveness of ozone in combination with controlled atmosphere on quality characteristics including lignification of carrot sticks / Chauhan, O.P., Raju, P.S., Ravi, N., Singh, A., Bawa, A.S.  
*Journal of Food Engineering*, Volume 102, Issue 1, p. 43-48, January 2011, ISSN 0260-8774,  
**Keywords: Carrots; Fresh-cut; Minimal processing; Lignin; Ozone; Controlled atmosphere**
788. Effects of acid pretreatments on some physicochemical properties of carrot undergoing hot air drying / Hiranvarachat, B., Devahastin, S., Chiewchan, N.  
*Food and Bioproducts Processing*, Volume 89, Issue 2, p. 116-127, April 2011, ISSN 0960-3085  
**Keywords:  $\beta$ -carotenoids; Blanching; Carrots; Citric acid; Cistrans isomerization; Microstructure; Physicochemical properties; Pretreatment; Soaking**
789. High pressure carbon dioxide treatment for fresh-cut carrot slices / Xiufang, B., Jihong, W., Yan, Z., Zenghui, X., Xiaojun, L.  
*Innovative Food Science & Emerging Technologies*, Volume 12, Issue 3, p. 298-304, July 2011, ISSN 1466-8564  
**Keywords: Fresh-cut carrot slices; High pressure carbon dioxide; Inactivation; Malondialdehyde; Relative electrolyte leakage; Hardness**
790. High pressure carbon dioxide treatment for fresh-cut carrot slices / Xiufang, B., Jihong, W., Yan, Z., Zenghui, X., Xiaojun, L.  
*Innovative Food Science & Emerging Technologies*, Volume 12, Issue 3, p. 298-304, July 2011, ISSN 1466-8564  
**Keywords: Carrot slices; Carbon dioxide; Inactivation; Malondialdehyde; Relative electrolyte leakage; Hardness**



791. Influence of blanching and low temperature preservation strategies on antioxidant activity and phytochemical content of carrots, green beans and broccoli / Patras, A., Tiwari, B.K., Brunton, N.P.  
*LWT - Food Science and Technology*, Volume 44, Issue 1, p. 299-306, January 2011, ISSN 0023-6438  
**Keywords: Ascorbic acid; Phenols; Kinetics; Blanching; Freezing; Chill storage**
792. Influence of pilot scale in pack pasteurization and sterilization treatments on nutritional and textural characteristics of carrot pieces / Lemmens, L., Colle, I., Knockaert, G., Van Buggenhout, S., Van Loey, A., Hendrickx, M.  
*Food Research International*, Volume 50, Issue 2, p. 526-533, 26 February 2011, ISSN 0963-9969  
**Keywords:  $\beta$ -carotenoids; Bioaccessibility; Carrots; Hardness; Pasteurization; Pretreatment; Sterilisation**
793. Measurement and targeting of thermophysical properties of carrot and meat based alginate particles for thermal processing applications / Hassan, H.F., Ramaswamy, H.S.  
*Journal of Food Engineering*, Volume 107, Issue 1, p. 117-126, November 2011, ISSN 0260-8774  
**Keywords: Alginate; Simulated food particles; Thermo-physical; Density; Optimization; Response surface; Thermal conductivity; Heat capacity**
794. Release and absorption of carotenes from processed carrots (*Daucus carota*) using in vitro digestion coupled with a Caco-2 cell trans-well culture model / Netzel, M., Netzel, G., Zabaras, D., Lundin, L., Day, L., Addepalli, R., Osborne, S.A., Seymour, R.  
*Food Research International*, Volume 44, Issue 4, p. 868-874, May 2011, ISSN 0963-9969  
**Keywords: Carrots; Processing; Plant cell particles; Carotenoids; In vitro digestion; Absorption; Caco-2 cells**

**2012  
CABI**

795. Changes in furan and other volatile compounds in sliced carrot during air-drying / Ying, D.H., Barringer, S.A.  
*Journal of Food Processing and Preservation*, 2012, 36, 1, p. 46-54, ISSN 0145-8892  
**Keywords: Carrots; Drying; Furan; Compounds**

796. Color characteristics of carrots: effect of drying and rehydration / Zielinska, M., Markowski, M.  
*International Journal of Food Properties*, Volume 15, Issue 2, p. 450-466, 2012, ISSN 1094-2912  
**Keywords: Carrots; Blanching; Drying; Rehydration; Colour characteristic; Modelling**
797. Comparative evaluation of the effects of electrohydrodynamic, oven, and ambient air on carrot cylindrical slices during drying process / Alemrajabi, A.A., Rezaee, F., Mirhosseini, M., Esehaghbeygi, A.  
*Drying Technology*, Volume 30, Issue 1, p. 88-96, 2012, ISSN 0737-3937  
**Keywords: Carrots; Colour; EHD drying; Energy consumption; Shrinkage; Temperature**
798. Drying characteristics and quality parameters of microwave-dried grated carrots / Arikan, M.F., Ayhan, Z., Soysal, Y., Esturk, O.  
*Food and Bioprocess Technology*, Volume 5, Issue 8, p. 3217-3229, 2012, ISSN 1935-5130  
**Keywords: Microwave; Drying; Specific energy consumption; Colour;  $\beta$ -carotenoids; Carrots**
799. Experimental evaluation of quality parameters during drying of carrot samples / Aversa, M., Curcio, S., Calabrò, V., Iorio, G.  
*Food and Bioprocess Technology*, Volume 5, Issue 1, p. 118-129, 2012, ISSN 1935-5130  
**Keywords: Drying; Carrots; Shrinkage; Colour; Rehydration**
800. Mathematical modelling of thin layer hot air drying of carrot pomace / Kumar, N., Sarkar, B.C., Sharma, H.K.  
*Journal of Food Science and Technology (Mysore)*, 2012, Volume 49, Issue 1, p. 33-41, ISSN 0022-1155  
**Keywords: Carrot pomace; Hot air drying; Modelling; Drying rate; Effective diffusivity; Activation energy**
801. The impact of freeze-drying on microstructure and rehydration properties of carrot / Voda, A., Homan, N., Witek, M., Duijster, A., Van, D.G., Van der, S.R., Nijssse, J., L. Van Vliet, L., van, H., van, D.J.  
*Food Research International*, Volume 49, Issue 2, p. 687-693, 2012, ISSN 0963-9969  
**Keywords: MRI; NMR; Microtomography; Microscopy; SEM; Image analysis; Pore size distribution; Tortuosity; Microstructure; Winter carrot; Freeze drying**

## DOAJ

802. Mixes of carrot juice and some fermented dairy products: potentiality as novel functional beverages / El-Abasy, A.E., Abou-Gharbia, H.A., Mousa, H.M., Youssef, M.M.  
*Food and Nutrition Sciences*, Volume 3, Issue 2, p. 233-239, 2012, DOI: 10.4236/fns.2012.32034, ISSN/EISSN: 2157944X 21579458  
**Keywords: Yoghurt; Carrot juice; Probiotics; Anthocyanins;  $\beta$ -carotenoids; Antioxidants**
803. Nutritional, physicochemical and microbial quality of ultrasound-treated apple-carrot juice blends / Jingfei Gao, H.P., Rupasinghe, V.  
*Food and Nutrition Sciences*, Volume 3, Issue 2, p. 212-218, 2012, DOI: 10.4236/fns.2012.32031, ISSN/EISSN: 2157944X 21579458  
**Keywords: Ultrasound; Pasteurization; Non thermal; Nutrition; Microbial growth;  $\beta$ -carotenoids; Antioxidant activity**
804. Pressurized hot ethanol extraction of carotenoids from carrot by-products / Mustafa, A., Trevino, L.M., Turner, C.  
*Molecules*, Volume 17, Issue 2, p. 1809-1818, 2012, DOI: 10.3390/molecules17021809; ISSN/EISSN: 14203049  
**Keywords: Accelerated solvent extraction; Pressurized fluid extraction; Ethanol; Carrots;  $\beta$ -carotenoids**

## ProQuest

805. Comparison of the nutritional value and storage life of carrot roots from organic and conventional cultivation / Wrzodak, A.; Szejda-Grzybowska, J.; Elkner, K.; Babik, I.  
*Vegetable Crops Research Bulletin*, Volume 76 , p. 137, 2012, 137, ISSN 1506-9427  
**Keywords: Carrots; Roots; Storage; Nutritive value**
806. Processing factors of several pesticides and degradation products in carrots by household and industrial processing / Bonnechère, A., Hanot, V., Jolie, R., Hendrickx, M., Bragard, C., Bedoret, T., Van Loco, J.  
*Journal of Food Research*, Volume 1, Issue 3, p. 68-83, Aug 2012, ISSN 19270887  
**Keywords: Carrots; Food processing industry; Households; Pesticides**

## ScienceDirect

807. Antifungal activity of sulfur-containing salts against the development of carrot cavity spot and potato dry rot/ Kolaei, E.A., Tweddell, R.J., Avis, T.J.  
*Postharvest Biology and Technology*, Volume 63, Issue 1, p. 55-59, January 2012, ISSN 0925-5214  
**Keywords: Antimicrobial salt; Cavity spot; Dry rot; Postharvest disease; Sulfate; Sulfite**
808. Calcium-alginate coating loaded with silver-montmorillonite nanoparticles to prolong the shelf-life of fresh-cut carrots / Costa, C., Conte, A., Buonocore, G.G., Lavorgna, M., Del Nobile, M.A.  
*Food Research International*, Volume 48, Issue 1, p. 164-169, August 2012, ISSN 0963-9969  
**Keywords: Nanoparticles; Antimicrobial agents; Silver; Fresh-cut carrots; Shelf life**
809. Chitosan powder coating, a novel simple technique for enhancement of shelf life quality of carrot shreds stored in macro perforated LDPE packs / Pushkala, R., Parvathy, K.R., Srividya, N.  
*Innovative Food Science & Emerging Technologies*, Volume 16, p. 11-20, October 2012, ISSN 1466-8564  
**Keywords: Shredded carrot; Chitosan; Powder coating; Macro perforated LDPE; Bioactive compounds; Shelf life quality**
810. Effect of ethylene and 1-methylcyclopropene on bitter compounds in carrots (*Daucus carota L.*) / Kramer, M., Bufler, G., Ulrich, D., Leitenberger, M., Conrad, J., Carle, R., Kammerer, D.R.  
*Postharvest Biology and Technology*, Volume 73, p. 28-36, November 2012, ISSN 0925-5214  
**Keywords: Carrots; Polyacetylenes; 6-Methoxymellein; Ethylene; 1-Methylcyclopropene; Bitter taste**
811. Effect of osmotic dehydrofreezing on the role of the cell membrane in carrot texture softening after freeze-thawing / Ando, H., Kajiwara, K., Oshita, S., Suzuki, T.  
*Journal of Food Engineering*, Volume 108, Issue 3, p. 473-479, February 2012, ISSN 0260-8774  
**Keywords: Texture; Water permeability; Nuclear magnetic resonance; Osmotic dehydrofreezing; Carrot tissue**

812. Effect of pulsed electric fields, ultraviolet light or high intensity light pulses in combination with manothermosonication on selected physico-chemical and sensory attributes of an orange and carrot juice blend / Caminiti, I.M., Noci, F., Morgan, D.J., Cronin, D.A., Lyng, J.G.  
*Food and Bioproducts Processing*, Volume 90, Issue 3, p. 442-448, July 2012, ISSN 0960-3085  
**Keywords: Non-thermal hurdle processing; Sensory evaluation; Ultraviolet light; High intensity light pulses (HILP); Pulsed electric fields; Manothermosonication (MTS)**
813. Impact of freeze-drying on microstructure and rehydration properties of carrot / Voda, A., Homan, N., Witek, M., Duijster, A., van Dalen, G., van der Sman, R., Nijse, J., van Vliet, L., van As, H., van Duynhoven, J.  
*Food Research International*, Volume 49, Issue 2, p. 687-693, December 2012, ISSN 0963-9969  
**Keywords: MRI; NMR; Microtomography; Microscopy; SEM; Image analysis; Pore size distribution; Tortuosity; Microstructure; Winter carrot; Freeze drying**
814. Impact of frozen storage on polyacetylene content, texture and colour in carrots disks / Rawson, A., Tiwari, B.K., Tuohy, M., Brunton, N.  
*Journal of Food Engineering*, Volume 108, Issue 4, p. 563-569, February 2012, ISSN 0260-8774  
**Keywords: Blast freezing; Polyacetylenes; Texture; Colour; Weibull modelling**
815. Influence of selected packaging materials on some quality aspects of pressure-assisted thermally processed carrots during storage / Ayvaz, H., Schirmer, S., Parulekar, Y., Balasubramaniam, V.M., Somerville, J.A., Daryaei, H.  
*LWT - Food Science and Technology*, Volume 46, Issue 2, p. 437-447, May 2012, ISSN 0023-6438  
**Keywords: Barrier properties; Packaging materials; Pressure-assisted thermal processing; High pressure processing; Baby carrots; Storage stability**
816. Infrared assisted dry-blanching and hybrid drying of carrot / Vishwanathan, K.H., Giwari, G.K., Hebbar, H.U.  
*Food and Bioproducts Processing*, Volume 91, Issue 2, p. 89-94, ISSN 0960-3085, 14 November 2012,  
**Keywords: Carrots; Dry blanching; Hot air; Hybrid drying; Infrared; Peroxidase activity**
817. Numerical simulation of lyophilization of carrot slices at atmospheric pressure in a fluidized bed / Bubnovich, V., Reyes, A., Quijada, E., Mahn, A.  
*Journal of Food Engineering*, Volume 109, Issue 4, p. 659-667, April 2012, ISSN 0260-8774  
**Keywords: Lyophilization; Numerical simulation; Fluidized bed**

818. Packaging strategies to prolong the shelf life of fresh carrots (*Daucus carota L.*) / Mastromatteo, M., Conte, A., Del Nobile, M.A.  
*Innovative Food Science & Emerging Technologies*, Volume 13, p. 215-220, January 2012, ISSN 1466-8564  
**Keywords: Fresh carrots; Ethanol; Coating; MAP; Shelf life**
819. Production of bioethanol from carrot discards / Aimaretti, N.R., Ybalo, C.V., Rojas, M.L., Plou, F.J., Yori, J.C.  
*Bioresource Technology*, Volume 123, p. 727-732, November 2012, ISSN 0960-8524  
**Keywords: Carrots; Fermentation; Ethanol; Enzymatic hydrolysis**
820. Thermal versus high pressure processing of carrots: A comparative pilot-scale study on equivalent basis / Vervoort, L., Van der Plancken, I., Grauwet, T., Verlinde, P., Matser, A., Hendrickx, M., Van Loey, A.  
*Innovative Food Science & Emerging Technologies*, Volume 15, p. 1-13, July 2012, ISSN 1466-8564  
**Keywords: Carrots; Daucus carota; High pressure; Processing; High pressure sterilization; Non-thermal processing; Fair comparison; Equivalence**
821. Towards better tasting and more nutritious carrots: Carotenoid and sugar content variation in carrot genetic resources / Baranski, R., Allender, C., Chodacka, M.K.  
*Food Research International*, Volume 47, Issue 2, p. 182-187, July 2012, ISSN 0963-9969,  
**Keywords: Carotene; Carrots; Daucus carota; Genebank collection; Sucrose; Vegetables**

## 2013 DOAJ

822. Production of bioethanol from carrot pomace using the thermotolerant yeast *Kluyveromyces marxianus* / Chi-Yang, Y., Bo-Hong, J., Kow-Jen, D.  
*Energies*, Volume 6, Issue 3, p. 1794-1801, 2013, DOI: 10.3390/en6031794, ISSN/EISSN: 19961073  
**Keywords: Bioethanol; Carrot pomace; Kluyveromyces marxianus; Simultaneous saccharification; Fermentation**
823. Variation in ultrasonic frequency and time as pre-treatments to air-drying of carrot / Abano, E.E., Sam-Amoah, L.K., Plange, A.B.  
*Journal of Agricultural Engineering*, Volume 43, Issue 4, p. e23-e23, 2013,  
**Keywords: Carrots; Ultrasound; Drying; Flavour; Colour; Non-enzymatic browning**

## ScienceDirect

824. Accumulation and degradation of starch in carrot roots / G. Bufler  
*Scientia Horticulturae*, Volume 150, p. 251-258, 4 February 2013, ISSN 0304-4238  
**Keywords: Starch; Carrots; Sucrose; Malto-oligosaccharides; Sensory test**
825. Comparing thermal and high pressure processing of carrots at different processing intensities by headspace fingerprinting / Vervoort, L., Grauwet, T., Njoroge, D.M., Van der Plancken, I., Matser, A., Hendrickx, M., Van Loey, A.  
*Innovative Food Science & Emerging Technologies*, 26 January 2013, ISSN 1466-8564  
**Keywords: Headspace GC-MS fingerprinting; Novel processing; High pressure; Processing; Carrots; Daucus carota; Multivariate data analysis**
826. Effect of vacuum inclusion on the quality and the sensory attributes of carrot snacks / Dueik, V., Marzullo, C., Bouchon, P.  
*LWT - Food Science and Technology*, Volume 50, Issue 1, p. 361-365, January 2013, ISSN 0023-6438  
**Keywords: Two-step drying; Vacuum drying; Carotenoids; Browning; Crispness; Flash profile; Frying; Vacuum frying**
827. Evaluation of high pressure (HP) treatment for rapid and uniform pH reduction in carrots / Tola, Y.B., Ramaswamy, H.S.  
*Journal of Food Engineering*, Volume 116, Issue 4, p. 900-909, 8 January 2013, ISSN 0260-8774  
**Keywords: Acidification; Low acid foods; Acidifying agent; Kinetics; Optimization; Temperature; High pressure**
828. Proteomic changes and endophytic micromycota during storage of organically and conventionally grown carrots / Louarn, S., Nawrocki, A., Kristensen, K.T., Lund, O.S., Jensen, O.N., Collinge, D.B., Jensen, B.  
*Postharvest Biology and Technology*, Volume 76, p. 26-33, February 2013, ISSN 0925-5214  
**Keywords: Carrot proteome; Endophytic micromycota; Organic production; Cold storage**
829. Some conventional and latent anti-listerial effects of essential oils, herbs, carrot and cabbage in fresh-cut vegetable systems / Scollard, J., Francis, G.A., O'Beirne, D.  
*Postharvest Biology and Technology*, Volume 77, p. 87-93, March 2013, ISSN 0925-5214  
**Keywords: Essential oils; Antilisterial effects; Maceration; Synergy; Sensory appearance**

830. Structural modification by different pretreatment methods to enhance microwave-assisted extraction of  $\beta$ -carotene from carrots / Hiranvarachat, B., Devahastin, S., Chiewchan, N., Raghavan, G.S.V.  
*Journal of Food Engineering*, Volume 115, Issue 2, p. 190-197, March 2013, ISSN 0260-8774  
**Keywords: Acid pretreatment; Antioxidant activity; Blanching; Carotenoids; Optimization; Soaking**
831. Vitamin C content and sensorial properties of dehydrated carrots blanched conventionally or by ultrasound / Santos, J.G., Soria, A.C., Mateos, M.P., Carrasco, J.A., Montilla, A., Villamiel, M.  
*Food Chemistry*, Volume 136, Issue 2, p. 782-788, 15 January 2013, ISSN 0308-8146  
**Keywords: Dehydrated carrot; Blanching; Ultrasound; Vitamin C; Sensorial properties; ChemSensor (MS-electronic nose); Mass spectrometry; Classification**



# INDEKS SUBJEK

## 1

1 H HRMAS NMR, 118  
16S rRNA gene clone, 144  
16S rRNA gene nucleotide sequence analysis,  
19  
17-Decarboxy-betainin, 24  
1-MCP, 17, 38, 119  
1-Methylcyclopropene, 20, 32, 104, 105, 109,  
124, 149

## 2

2- hydroxypropyl- $\beta$  and ( $\gamma$ -Cyclodextrin), 139  
2-Decarboxy-betainin, 24  
2E-hexenal, 76  
2-stage juice expression, 143  
2-stage NN, 53

## 3

3,5,6-trichloro-2-pyridinol, 127

## 5

5-Hydroxymethyl furfural, 108

## 6

6-Methoxymellein, 149

## A

Abiotic stress, 37  
Absorption, 146  
Accelerated solvent extraction, 125, 148

Acetaldehyde, 76  
Acetates, 45  
Acid pretreatment, 88, 153  
Acid solution, 90  
Acidification, 30, 32, 47, 152  
Acidified vegetables, 90  
Acidifying agent, 152  
Acidity, 109  
Acids, 35, 55, 115  
Acoustic property, 73  
Acrylamide, 60, 62, 63, 65, 66, 67, 68, 71, 74,  
75  
Acrylamide formation, 66  
Acrylamide mitigation, 73  
Activation energy, 13, 78, 115, 132, 137, 147  
Active packaging, 104  
Active paper packaging, 110  
Activity, 27  
Acyce diterpene glycoside, 49  
Adhesion, 120  
Aerobic biodegradation, 59, 64  
Agricultural production, 8, 47  
Air drying, 45, 46, 88, 102, 128, 130  
Air flow rate, 119  
Air humidity measurements, 94  
Air temperature, 1, 10, 88, 115  
Air velocity, 10, 113, 115  
Alboglobra group, 37, 40, 41, 42  
Alcohol dehydrogenase, 109, 116  
Alcohol-insoluble extract, 140  
Alginate, 146  
Alkaline treatment, 25  
Alliinase, 8  
Allium cepa, 6, 7  
Allium discolouration, 8  
Allium sativum, 9, 11, 12

- Alternaria alternata**, 102, 104, 110
- Alum**, 22
- Ambient storage**, 132, 133
- Amino acids**, 134
- Ammonia**, 52
- Ammonium**, 17
- Amplitude**, 76
- Amylolysis**, 69
- Amylose–lipid complex**, 124
- Anaerobic digestion**, 58, 68
- Anaerobic metabolism**, 77
- Antagonistic mechanisms**, 103
- Anthocyanins**, 2, 3, 7, 53, 54, 58, 60, 67, 75, 79, 92, 136, 143, 144, 145, 148
- Anthracnose**, 113
- Antibacterial efficacy**, 93
- Antibacterial property**, 90
- Anticancer**, 52
- Anticancer activity**, 39
- Antifungal activity**, 104
- Antifungal properties**, 11
- Antilisterial effects**, 140, 152
- Antimicrobial**, 124
- Antimicrobial activity**, 36
- Antimicrobial agents**, 95, 96, 149
- Antimicrobial coatings**, 34
- Antimicrobial packaging**, 106
- Antimicrobial salt**, 71, 149
- Antinutrient**, 44
- Antioxidant ability**, 7
- Antioxidant activity**, 3, 6, 9, 10, 27, 33, 35, 37, 39, 42, 44, 48, 64, 73, 76, 78, 84, 87, 95, 106, 112, 116, 122, 127, 129, 130, 132, 135, 137, 145, 148, 153
- Antioxidant capacity**, 23, 31, 37, 48, 51, 54, 86, 88, 97, 124, 134, 135
- Antioxidant compounds**, 33
- Antioxidant enzymes**, 29, 30, 41, 123
- Antioxidant properties**, 2, 8, 46, 48
- Antioxidants**, 1, 5, 6, 43, 44, 46, 47, 49, 65, 67, 77, 84, 85, 86, 87, 89, 116, 118, 119, 120, 121, 122, 124, 128, 136, 140, 148
- Antioxidative activity**, 128
- Antioxidative properties**, 131
- Antipectin antibodies**, 38, 40
- Antiradical power**, 40, 133
- Apigenin**, 84
- Apparent density**, 134
- Apple**, 22, 88, 138, 141
- Apple slice**, 127
- Aqueous solutions**, 98
- Arcobacter**, 144
- ARDRA**, 144
- Arginase**, 123
- Aroma**, 138
- Aroma compounds**, 99
- Arrhenius equation**, 133
- Artificial neural networks**, 113
- Ascorbate**, 39, 74
- Ascorbate metabolism**, 32
- Ascorbate oxidase**, 38
- Ascorbate–glutathione cycle**, 31
- Ascorbic**, 78
- Ascorbic acid**, 6, 7, 13, 17, 20, 28, 37, 38, 42, 45, 64, 75, 77, 106, 109, 111, 116, 119, 121, 122, 123, 125, 131, 135, 136, 146
- Ascorbigen**, 36, 56
- Asparaginase**, 67
- Asparagus**, 1, 2, 3, 4, 5, 6, 97
- Asparagus officinalis**, 2, 3, 4
- Asparagus spear**, 1
- Assigned signal analysis**, 118
- Astrocytes**, 52
- Atmosphere**, 2
- Atomic force microscopy (AFM) images**, 48
- Attachment**, 120
- Authenticity**, 119
- Autochthonous lactic acid bacteria**, 46
- Avocado**, 20, 105, 124

## **B**

- Baby carrots**, 129, 150
- Baby leaf**, 20, 21

**Baby lettuce**, 97  
**Baby spinach**, 13, 14, 16  
**Bacillus**, 59, 92  
**Bacillus cereus spores**, 82  
**Bacillus coagulants spore**, 125  
**Bacillus mixed culture**, 66  
**Bacteria**, 19, 45, 49, 91  
**Bacterial counts**, 111  
**Bacterial detachment**, 58  
**Bacterial disease**, 14  
**Bacterial infections**, 96  
**Bacteriocins**, 79, 84  
**Bacteriology**, 96  
**Bacteriology antagonistic activity**, 16  
**Baking**, 59  
**Ball milling**, 70  
**Banana**, 88  
**Banana flour**, 91  
**Barley**, 103  
**Barrier properties**, 129, 150  
**Batch process**, 59  
**Beans**, 43, 52  
**Beet**, 130  
**Bell pepper**, 45, 48, 50, 84, 100  
**Berberine fluorescence**, 105  
**Berry drop**, 126  
**Beta vulgaris**, 21, 22, 23, 24  
**Betalains**, 24  
**Betainin**, 24  
**Beverages**, 35, 144  
**Bias**, 98  
**Bile acid binding**, 77  
**Bioaccessibility**, 39, 126, 146  
**Bioactive compounds**, 6, 37, 42, 122, 149  
**Bioactive fibre**, 5  
**Bioavailability**, 26, 28  
**Biochemical barriers**, 105  
**Biochemical parameters**, 23  
**Biochemical profiling**, 50  
**Biochemistry**, 131  
**Biocontrol**, 103  
**Biodegradable**, 91  
**Biodiversity**, 76  
**Bioethanol**, 22, 24, 25, 66, 151  
**Biological control**, 102, 134  
**Biological variability**, 39  
**Biological variation**, 31  
**Biomass**, 75  
**Biopolymer film**, 66  
**Biopreservation**, 41, 84  
**Biopreservatives**, 79  
**Biorefinery**, 72  
**Biotransformation**, 94  
**Bitter taste**, 149  
**Black carrot**, 136, 143  
**Black carrot juice**, 143, 145  
**Black garlic**, 12  
**Blackspot bruising**, 67  
**Blanching**, 25, 26, 27, 30, 31, 32, 36, 37, 42, 45, 47, 54, 59, 60, 63, 67, 70, 88, 94, 134, 140, 142, 145, 146, 147, 153  
**Blanching time**, 77  
**Blast freezing**, 150  
**Blended carrot-orange juice**, 139  
**Boiling**, 27, 52, 76, 77, 90  
**Boiling process**, 89  
**Boration**, 75  
**Borax**, 72  
**Boric acid**, 106  
**BoSS**, 28  
**Botrytis cinerea**, 104, 118, 120, 130  
**Brassica**, 32  
**Brassica oleracea**, 35, 37, 39, 40, 41, 42, 55, 91  
**Brassica oleracea botrytis**, 53, 54  
**Brassica oleracea capitata**, 53  
**Brassica oleracea italica**, 32, 33  
**Brassica rapa**, 33  
**Broad bean**, 84  
**Broccoli**, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 54, 77  
**Broccoli florets**, 29, 30, 31, 37  
**Broccoli sprouts**, 39, 40  
**Brown area**, 62  
**Browning**, 50, 63, 64, 95, 97, 100, 101, 152

**Browning appearance**, 55  
**Brushing**, 51  
**Brussel sprouts**, 35  
**Burdock fructooligosaccharide**, 109  
**Byproducts**, 3, 5, 6, 7, 50, 53, 106

## C

**CA**, 6  
**Cabbages**, 35, 76, 77, 88, 138  
**Caco-2 cells**, 140, 146  
**Calcium**, 113  
**Calcium chloride**, 77, 106  
**Calcium infusion**, 131  
**Calibration**, 117, 132  
**Campylobacter**, 85  
**Canned food**, 90  
**Canning**, 20, 51, 94  
**Capsaicinoids**, 83  
**Capsianoside**, 49  
**Capsicum**, 46  
**Capsicum annum**, 45, 46, 47, 48, 49, 82, 83, 84  
**Caramel sauce**, 72  
**Carbohydrates**, 23, 44  
**Carbon dioxide**, 6, 58, 82, 83, 88, 114, 145  
**Carbon methyl cellulose**, 132  
**Carboxy methyl cellulose**, 133  
**Carboxylic ester hydrolases**, 45  
**Carboxymethylcellulose**, 107, 132, 133  
**Cardiovascular diseases**, 85  
**Carotene**, 121, 122, 127, 130, 131, 138, 139, 151  
**Carotene content**, 139  
**Carotenoid content**, 14  
**Carotenoid measurement**, 110  
**Carotenoid retention**, 83  
**Carotenoids**, 13, 20, 26, 28, 45, 47, 51, 64, 67, 72, 80, 81, 82, 83, 89, 92, 109, 110, 112, 117, 123, 125, 126, 127, 135, 136, 139, 146, 152, 153  
**Carrot cubes**, 143

**Carrot juice**, 135, 140, 143, 148  
**Carrot pomace**, 147, 151  
**Carrot proteome**, 152  
**Carrot puree**, 145  
**Carrot slices**, 127, 133, 136, 145  
**Carrot tissue**, 128, 149  
**Carrots**, 21, 61, 106, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 144, 145, 146, 147, 148, 149, 150, 151, 152  
**Carvacrol**, 126  
**Case study**, 93  
**Cassava**, 134  
**Catalytic activity**, 134  
**Cauliflower**, 29, 30, 52, 53, 54, 56  
**Cavity spot**, 71, 149  
**Cell permeability**, 27  
**Cell recycle**, 72  
**Cell size**, 104  
**Cell structure**, 140  
**Cell wall**, 26, 76, 104  
**Cell wall components**, 6  
**Cell wall stacking zone**, 105  
**Cell walls**, 6, 112  
**Cellophane film**, 133  
**Cellulase**, 124  
**Cellulose**, 116  
**Centrifugal osmotic dehydration time**, 128  
**Cereal**, 95  
**Challenge testing**, 92  
**Cheese analogue**, 88  
**Chemical analysis**, 111  
**Chemical composition**, 2, 98, 107, 119, 144  
**Chemical content**, 18  
**Chemical coordination**, 16  
**Chemical imaging**, 118  
**Chemical modification**, 73  
**Chemical sanitizers**, 12  
**Chemical structure**, 2, 22  
**Chemometry**, 110  
**ChemSensor (MS-electronic nose)**, 153  
**Cherry tomato**, 102, 110

**Cherry tomato fruit**, 113  
**Cherry tomatoes**, 126  
**Children**, 93  
**Chill storage**, 146  
**Chill storage**, 37  
**Chilling**, 101, 141  
**Chilling injury**, 80, 81, 107, 112, 113, 116, 117, 122, 123  
**Chilling sensitivity**, 122  
**Chips**, 75  
**Chitinase**, 110  
**Chitosan**, 5, 48, 52, 79, 91, 149  
**Chl degradation**, 33  
**Chl derivatives**, 33  
**Chl-degrading enzymes**, 33  
**Chlorine dioxide**, 79, 97  
**Chlorogenic acid**, 70, 75, 76, 101, 135  
**Chlorophyll**, 13, 27, 29, 30, 33, 34, 35, 80, 81, 91, 112  
**Chlorophyll catabolic enzyme**, 32  
**Chlorophyll degradation**, 29, 30, 40  
**Chlorophyllase**, 40  
**Chlorophyls**, 4  
**Chlorpropham**, 64  
**Chlorpyrifos**, 127  
**Chopped carrot**, 129  
**Chromaticity**, 54  
**Chromatography**, 13  
**Cicer arietinum**, 44  
**CIELAB**, 54  
**Cinnamon oil**, 48  
**Cistrans**, 145  
**Cis-trans isomerization**, 129  
**Cis-trans isomerization**, 142  
**Citrate synthase**, 80  
**Citric acid**, 77, 142, 145  
**Citric acid treatment**, 51  
**Citrullus lanatust**, 110  
**Classification**, 20, 73, 119, 153  
**Cloning**, 21, 120  
**Clostridium**, 92  
**Cloud**, 135  
**Cluster**, 126  
**Cluster analysis**, 110  
**Coagulation**, 22  
**Coating**, 2, 68, 124, 129, 151  
**Coaxial probe**, 90  
**Coefficient of diffusivity**, 127  
**Co-fermentation**, 134  
**Cold break**, 108  
**Cold shock treatment**, 29, 30  
**Cold storage**, 2, 3, 5, 63, 120, 132, 133, 152  
**Cold stress**, 13  
**Cold treatment**, 49  
**Cold-induced sweetening**, 58  
**Coliforms**, 19, 100  
**Collard greens**, 77  
**Colletotrichum coccodes**, 76, 104  
**Color measuring**, 121  
**Color stability**, 78  
**Colour**, 1, 4, 8, 10, 25, 47, 48, 62, 65, 67, 77, 80, 81, 82, 83, 90, 94, 103, 108, 109, 112, 113, 117, 126, 127, 135, 136, 138, 140, 145, 147, 150, 151  
**Colour characteristic**, 147  
**Colour evaluation**, 13  
**Colour frequency**, 111  
**Colour parameter**, 137  
**Colour stability**, 58  
**Combined application**, 90, 93  
**Combined drying**, 142  
**Combined methods**, 50  
**Combined microwave drying**, 138  
**Combined pressure-heat treatment**, 125  
**ComCat**, 129  
**Comcat treatment**, 142  
**ComCat®**, 106  
**Comparative analysis**, 86  
**Complex shape**, 28  
**Composition**, 58  
**Compounds**, 146  
**Computational fluid dynamics**, 66  
**Computer vision**, 73  
**Concentrate**, 26

**Condensation intensity**, 94  
**Condensation retention time**, 94  
**Congélation**, 10  
**Conidial viability**, 12  
**Connection weights**, 24  
**Consumer acceptability**, 62  
**Consumer perception**, 19  
**Consumer preferences**, 35, 65  
**Containers**, 107  
**Continuous band dryer**, 133, 136  
**Continuous flow**, 58  
**Continuous microwave processing**, 90  
**Continuous process**, 66  
**Control methods**, 12  
**Controlled**, 34  
**Controlled atmosphere**, 41, 114, 145  
**Controlled atmospheric packaging**, 76  
**Convective**, 61, 130, 131  
**Convective drying**, 37, 102, 128, 132, 141  
**Conventional heating**, 92, 137  
**Cooked carrots**, 137  
**Cookie sensory**, 52  
**Cooking**, 19, 26, 27, 32, 40, 44, 67, 76, 84, 85, 86, 141  
**Cooking methods**, 64  
**Cooling**, 32, 87, 139  
**Cooling temperature**, 24  
**Copper**, 99  
**Co-production**, 58  
**Core**, 63  
**Couette flow**, 58  
**Cowpea**, 134  
**Creamine**, 70  
**Crispness**, 73, 152  
**Crohns disease**, 99  
**Crop care**, 138  
**Crop diseases**, 74  
**Crop quality**, 98  
**Crops**, 57  
**Cross-species microarray**, 36  
**Crushing**, 30, 32  
**Crust**, 63

**Crust formation**, 74  
**Cryoprotectants**, 70  
**Cryoprotection**, 13  
**Cryptoclimate**, 124  
**Crystal size**, 24  
**Crystallinity**, 59  
**Crystallization process**, 24  
**CT-scan**, 28  
**Cucumber**, 80, 81, 87, 112  
**Cucumber fruit**, 80  
**Cucumbers**, 80  
**Cucumis sativus**, 81  
**Cucurbita moschata**, 78  
**Cultivars**, 7, 57, 65, 103  
**CuSO<sub>4</sub>**, 25  
**Customer satisfaction**, 86  
**Cuticle**, 116  
**Cuticular wax**, 105  
**Cutting direction**, 99  
**Cutting test**, 86  
**Cyanogenic glucosides**, 91  
**Cyclic voltammetry**, 6  
**Cyclopentanes**, 45  
**Cytochemical labeling**, 105  
**Cytochrome b559**, 14  
**Cytochrome coxidase**, 113  
**Cytokinins**, 28

## D

**Dairy products**, 25  
**Damage**, 107  
**Dark beans**, 52  
**Daucus carota**, 129, 130, 135, 140, 151, 152  
**Days after anthesis**, 91  
**DCFH-DA**, 31  
**Decarboxylation**, 24  
**Decay**, 130  
**Decay severity**, 122  
**Decomposition**, 49  
**Decontamination**, 19  
**Deep fat frying**, 63, 72

**Deep fried potatoes**, 62  
**Deep frying**, 66  
**Defense enzyme**, 1  
**Defense responses**, 109  
**Deformation**, 76  
**Degradation**, 82, 93, 129  
**Degradation rate**, 83  
**Degree of esterification**, 38  
**Degree of pectin methyl-esterification**, 141  
**Dehydrated carrot**, 153  
**Dehydration**, 47, 101, 140, 142  
**Dehydroascorbic acid**, 32, 116  
**Dehydrogenation**, 24  
**Delactosed whey permeate**, 124  
**Demethoxylation**, 86  
**Density**, 93, 146  
**De-oiling**, 62, 69  
**Desirability function**, 79  
**Desorption drying**, 66  
**Detection**, 12, 56, 72  
**Determination**, 89  
**Developing bolls**, 91  
**Development**, 16, 80  
**Dew point**, 94  
**Dextrins**, 69  
**DGGE**, 17, 94  
**Diallyl sulfide**, 9  
**Diatomaceous earth**, 11  
**DIC**, 90  
**DIC hydrothermal treatment**, 67  
**Diced**, 113  
**Dielectric properties**, 69, 90, 131  
**Dietary fibre**, 6, 7  
**Differential scanning calorimeter**, 70  
**Diffusion**, 9, 20, 61, 70, 79, 124, 130, 131, 133, 136  
**Diffusion coefficient**, 15  
**Diffusivity**, 59  
**Digestibility**, 43  
**Digestive system**, 16  
**Digital image analysis**, 126  
**Diplotaxis tenuifolia**, 39  
**Discriminating analysis**, 110  
**Disease control**, 105, 110  
**Disease outbreak**, 14  
**Disinfection**, 85, 136, 142  
**Disintegration index**, 74  
**Dissolved oxygen**, 99  
**Distillery stillage**, 64  
**Distribution coefficient**, 79  
**Diversity**, 94  
**DMA**, 76  
**DNA**, 7, 21  
**Domestic cooking**, 92  
**Dormancy**, 60  
**Dose distribution**, 28  
**DPPH**, 121  
**Dried vegetable products**, 87  
**Drinking water**, 55  
**Drivers of liking**, 93  
**Driving voltage**, 98  
**Dry blanching**, 150  
**Dry food powder**, 56  
**Dry heat treatment**, 79  
**Dry matter**, 141  
**Dry matter content**, 39  
**Dry rot**, 71, 72, 149  
**Dry solids**, 4  
**Drying**, 9, 11, 42, 45, 47, 48, 61, 64, 70, 71, 78, 79, 83, 89, 94, 108, 111, 115, 117, 123, 128, 130, 131, 132, 133, 134, 136, 138, 141, 146, 147, 151  
**Drying kinetics**, 59, 128, 130, 132, 134  
**Drying methods**, 83, 120  
**Drying models**, 78  
**Drying rate**, 60, 64, 102, 132, 138, 143, 147  
**Drying techniques**, 15  
**Drying time**, 119  
**Drying uniformity**, 138  
**Drying velocity**, 71  
**Dual-mode sorption**, 70  
**Duration**, 71

## E

- E- and Z-ajoene, 9
- Ecotoxicity, 87
- Edible films, 2, 3, 5, 21, 34, 36, 37, 41, 52, 114, 115, 124, 127, 130, 145
- Edible vegetable oil, 86
- Effective diffusivity, 78, 132, 142, 147
- Effective moisture diffusivity, 142
- EGSB, 68
- EHD drying, 147
- Elasticity, 86
- Elderberry, 136
- Electric current, 117
- Electric double layer, 21
- Electric fields, 108
- Electrical conductivity, 74
- Electrokinetic potential, 21
- Electrolyte leakage, 41, 80
- Electrolyzed oxidizing water, 13
- Electron beam radiation, 14
- Electron microscopy, 105
- Electronic nose, 138
- Electrooxidation response, 15
- Electropermeabilization, 127
- Electroplasmolysis, 143
- Electroporation, 62, 74
- Electrostatic, 117
- Electrostatic atomization, 39
- Electrostatic atomization on ascorbate, 39
- Elicitor, 109, 118
- Elongation, 71
- EMAP, 136
- Emergence pattern, 60
- Emerging technologies, 50
- Enantioselectivity, 94
- Endophytic micromycota, 152
- Endopolygalacturonase, 108
- Energetic conversion, 73
- Energy carrier, 9
- Energy consumption, 94, 147
- Enquête, 10
- Enterococcus faecalis, 13, 55
- Enterococcus faecium, 55
- Enthalpy, 59
- Enthalpy relaxation, 70
- Entreposage, 36
- Entreposage frigorifique, 10
- Entropy, 59
- Enzymatic browning, 6, 58, 97
- Enzymatic hydrolysis, 24, 151
- Enzyme activity, 9, 116
- Enzyme clarification, 139
- Enzyme stability, 134
- Enzyme-assisted processing, 145
- Enzymes, 22, 23, 25, 28, 32, 33, 38, 45, 48, 55, 83, 99, 120
- Enzymic browning, 53
- Enzymology, 9
- Epidemics, 98
- Epidemiology, 14, 97
- Epidermis, 116
- Equivalence, 151
- Erwinia carotovora, 85
- Escherichia coli, 12, 14, 15, 17, 19, 36, 85, 92, 95, 96, 97, 98, 99, 135
- Escherichia coli O157:H7, 79, 126
- ESR spectroscopy, 56, 92
- Essential oils, 11, 75, 90, 106, 110, 113, 152
- Ethanol, 31, 32, 113, 129, 148, 151
- Ethanol fermentation, 26
- Ethylene, 17, 20, 45, 101, 102, 104, 105, 111, 114, 135, 149
- Ethylene production, 28, 122
- Ethylene receptor, 117
- Ethylene removal, 109
- Ethylene responsiveness, 31
- Evaporated acrylamide, 63
- Evaporative cooling, 103, 106, 129
- Exergy and energy, 133, 136
- Exocarp, 122
- Expansion, 69
- Experiment, 10
- Experimental design, 60



**Experimental validation**, 94  
**Experimentation**, 132  
**Expérimentation**, 10  
**Extraction**, 3, 60, 70, 82, 83  
**Extracts**, 18, 48  
**Extra-virgin olive oil**, 4  
**Extruded flour**, 52  
**Extrusion**, 51, 68  
**Extrusion cooking**, 103  
**Extrusion technology**, 53

## **F**

**Fair comparison**, 151  
**Falling impact**, 110  
**Farmers markets**, 96  
**Fatty acids**, 41  
**Feasibility**, 87, 139  
**Fermentation**, 24, 36, 51, 56, 58, 88, 151  
**Fermented fish**, 78  
**Fermented vegetables**, 87, 94  
**Ferulic acid**, 141  
**Fiber optic sensing**, 110  
**Fibreboards**, 107  
**Fick's model**, 115  
**Field temperature**, 16  
**Fiji**, 85  
**Film coating**, 6  
**Finite element**, 57, 117  
**Finite element analysis**, 122  
**Firmness**, 88, 104, 105, 109, 113, 114, 120, 132  
**Flash profile**, 152  
**Flat scanner**, 62  
**Flavonoids**, 7, 12, 18, 72, 89, 116  
**Flavonols**, 7, 72  
**Flavor**, 109  
**Flavour**, 44, 109, 116, 151  
**Flax**, 91  
**Flaxseed protein concentrate**, 62  
**Flow injection analysis**, 85  
**Flowability**, 69, 73  
**Flowering**, 33

**Fluctuation**, 94  
**Fluidized bed**, 150  
**Fluidized bed drying**, 9, 143  
**Foam separation**, 76  
**Folate polyglutamates**, 28  
**Folates**, 30  
**Foliar nutrition**, 139  
**Food contamination**, 98  
**Food poisoning**, 45  
**Food additives**, 84  
**Food analysis**, 60, 76, 106, 109, 116, 117  
**Food Analysis**, 143  
**Food composition**, 44, 76, 109, 116, 117  
**Food contamination**, 15, 34, 45, 49, 91, 96, 98, 99, 115  
**Food ingredient**, 6  
**Food irradiation**, 19, 97, 115  
**Food model**, 93  
**Food packaging**, 48  
**Food poisoning**, 34, 49, 91, 96, 98, 99, 115  
**Food powders**, 69  
**Food preservation**, 88, 115, 123, 126  
**Food preservatives**, 11  
**Food processes**, 84  
**Food processing**, 8, 26, 28, 76, 90  
**Food processing industry**, 87, 96, 98, 148  
**Food properties**, 121, 125  
**Food quality**, 34, 115  
**Food safety**, 17, 34, 45, 49, 55, 65, 91, 92, 95, 96, 98, 115  
**Food science**, 44, 99  
**Food storage**, 137  
**Food system**, 127  
**Food texture**, 73  
**Foodborne illness**, 21  
**Foodborne pathogens**, 85  
**Foods**, 16, 73, 141  
**Foods storage time**, 16  
**Foods synergistic effect**, 9  
**Foods tissue damage**, 17  
**Fourier transform**, 73  
**Fractional conversion model**, 59

**Fracture**, 73  
**FRAP**, 54, 85, 121  
**FRAP assay**, 6  
**Free phytosterol determination**, 85  
**Free radical scavenging capacity**, 44  
**Free radicals**, 1, 2, 10, 19, 72, 87  
**Freeze damage**, 81  
**Freeze drying**, 40, 62, 68, 127, 128, 142, 147, 150  
**Freezing**, 6, 10, 20, 26, 27, 34, 36, 37, 45, 51, 54, 59, 62, 66, 75, 84, 86, 94, 128, 141, 146  
**French bean**, 84  
**French beans**, 51  
**French fries**, 65, 75  
**Frequency**, 76  
**Fresh carrots**, 129, 151  
**Fresh cut**, 1, 29, 31  
**Fresh produce**, 19, 20, 27, 136, 144  
**Fresh vegetables**, 87  
**Fresh-cut**, 8, 20, 37, 39, 85, 97, 99, 135, 140, 145  
**Fresh-cut carrot slices**, 145  
**Fresh-cut carrots**, 149  
**Fresh-cut minimally**, 77  
**Fresh-cut potato**, 58  
**Fresh-cut vegetables**, 50, 77, 85  
**Freshness**, 19  
**Fried potato chips**, 66  
**Frozen and canned**, 87  
**Frozen potato puree**, 61  
**Frozen product**, 93  
**Frozen storage**, 4, 50  
**Frozen vegetables**, 90, 91  
**Fructose**, 1, 28, 58  
**Fruit juices**, 125, 143  
**Fruit mass**, 113  
**Fruit maturity**, 110  
**Fruit quality**, 38, 101, 118, 121  
**Fruit ripening**, 112, 117  
**Fruit skin**, 120  
**Fruit storage**, 115

**Fruits**, 49, 55, 85, 86, 87, 89, 91, 94, 95, 98, 117, 120, 126, 139, 140  
**Fry**, 68  
**Frying**, 57, 59, 60, 63, 65, 69, 74, 152  
**Functional extracts**, 5  
**Functional food**, 95  
**Functional ingredient**, 35  
**Functional properties**, 87  
**Fungal growth**, 113  
**Fungi**, 74, 87  
**Furan**, 146  
**Fusarium sulphureum**, 72  
**Fuzzy logic**, 138

## **G**

**G.A.B. model parameters**, 93  
**GABA**, 114  
**Gallic acid**, 70  
**Gamma irradiation**, 23  
**Garden eggs**, 138  
**Garlic**, 9, 10, 11, 12, 72  
**Garlic powder**, 8  
**Garlic shoot juice**, 9  
**Garlic slices**, 11  
**Garson equation**, 24  
**Gas chromatography**, 68  
**Gas composition**, 102, 128  
**Gas exchange**, 29, 30, 31  
**Gaseous exchange**, 124  
**Gaseous ozone**, 120  
**GC**, 82, 85  
**GC-MS**, 34, 81, 116, 118, 119, 122, 125  
**GC-TOF-MS**, 67  
**Gelatinization**, 58, 72, 76  
**Gelatinization temperature**, 59  
**Gemmifera**, 91  
**Gene expression**, 40, 116, 117, 118  
**Genebank collection**, 151  
**Genes**, 120  
**Genetic engineering**, 120  
**Genotype**, 67, 83

**Geometry**, 102  
**Geranylinalool derivative**, 49  
**Germination**, 52  
**Glazing**, 119  
**Global warming**, 88  
**Gloss**, 51  
**Glucanase**, 110  
**Glucoraphanin**, 31  
**Glucose**, 1, 28, 58, 131  
**Glucosinolates**, 26, 27, 29, 30, 31, 32, 34, 35, 39, 40, 41, 42, 54, 79  
**Glucuronidase**, 45  
**Glutamate dehydrogenase**, 52  
**Glutamine synthetase**, 52  
**Glutathione**, 13, 17, 20, 42  
**Gluten**, 69  
**Glycation**, 66  
**Glycemic response**, 72  
**Glycine**, 62  
**Glycoalkaloids**, 65, 75  
**Gochujang**, 49  
**Grains**, 94  
**Granulometry**, 67, 104  
**Grape**, 88  
**Gray mold**, 105, 110  
**Green asparagus**, 1, 3, 4, 5  
**Green beans**, 94, 138, 141  
**Green bell pepper**, 77  
**Green leafy vegetables**, 18  
**Green onion**, 7  
**Green vegetables**, 88  
**Greening**, 10  
**Growing conditions**, 122  
**Growth niche**, 17  
**Growth potential**, 92  
**Growth rate**, 21  
**Guar gum**, 75  
**Gum arabic**, 50, 124  
**Gypsum**, 53

## H

**HACCP**, 104  
**Handling**, 84, 107  
**Hardness**, 94, 145, 146  
**Hard-to-cook beans**, 51  
**Harvest**, 65, 71  
**Harvest time**, 48, 84  
**Harvesting**, 1, 39, 108  
**Harvesting date**, 98  
**Headspace GC-MS fingerprinting**, 152  
**Headspace solid phase microextraction**, 106  
**Health**, 42  
**Health benefits**, 5  
**Health effects**, 93  
**Health food**, 10  
**Health promoting compounds**, 41, 42  
**Health safety**, 87  
**Health snack**, 59  
**Healthy vegetables**, 46  
**Heat**, 73, 126  
**Heat capacity**, 146  
**Heat moisture treatment**, 69  
**Heat shock**, 13, 116, 122  
**Heat shock treatment**, 29, 30  
**Heat stability**, 136  
**Heat transfer**, 68, 93  
**Heat transfer coefficient**, 65, 69, 74  
**Heat treatment**, 3, 27, 29, 31, 33, 34, 37, 46, 107, 113, 141  
**Heating**, 94  
**Heating treatment**, 4  
**Heating uniformity**, 90  
**Helminthosporium solani**, 76  
**Heritability**, 67  
**Hexanal**, 104  
**High cell density fermentation**, 72  
**High hydrostatic pressure**, 135, 138, 141  
**High intensity light pulses (HILP)**, 150  
**High oxygen**, 58  
**High pressure**, 27, 31, 38, 151, 152  
**High pressure carbon dioxide**, 135, 145

**High pressure frying**, 65  
**High pressure homogenization**, 121, 125  
**High pressure processing**, 122, 129, 135, 137, 150  
**High pressure sterilization**, 151  
**High strength wastewater**, 66  
**High temperature**, 112  
**High yielding varieties**, 57  
**High-intensity pulsed**, 108  
**High-intensity ultrasound**, 142  
**High-lycopene cultivars**, 116  
**High-pressure homogenization**, 66  
**High-pressure processing**, 28, 116  
**High-pressure sterilization**, 86  
**High-strength wastewater**, 64  
**High-sugar foods**, 126  
**Himalayas**, 87  
**Hollow-fibre liquid phase microextraction**, 106  
**Home processing**, 19  
**Homeostasis**, 16  
**Honey**, 130  
**Hormesis**, 105  
**Hormetic**, 110  
**Hormic dose**, 105, 110  
**Horse hair**, 51  
**Host defense mechanisms**, 105, 110  
**Host resistance**, 105, 110  
**Hot air**, 123, 150  
**Hot air drying**, 88, 129, 147  
**Hot break**, 108  
**Hot water**, 136  
**Hot water treatment**, 120  
**Hot-break processing**, 103  
**Households**, 148  
**HPLC**, 28, 31, 82, 119  
**HPLC/TOF-MS**, 86  
**HPLC-DAD**, 60  
**HPLC-MS/MS**, 41, 121  
**HS-SPME**, 80  
**Humidification**, 20  
**Hurdle technology**, 51  
**Hybrid drying**, 150  
**Hydration property**, 43  
**Hydric stress**, 97  
**Hydrocolloids**, 68  
**Hydrocolloid-wax**, 51  
**Hydro-cooling**, 144  
**Hydrofluidization**, 73  
**Hydrogen**, 58  
**Hydrogen peroxide**, 13, 95  
**Hydrolysis**, 22  
**Hydroperoxide lyase**, 116  
**Hydrophilic antioxidant capacity**, 121  
**Hydrophilic polymers**, 6  
**Hydrophobic**, 6  
**Hydroponics**, 98, 100  
**Hydrostatic pressure**, 103  
**Hyperspectral**, 132  
**Hyperspectral imaging**, 70  
**Hypobaric storage**, 1  
**Hypoglycemic properties**, 84

**I**

**Iceberg lettuce**, 16  
**Identification**, 19  
**Image acquisition**, 104  
**Image algorithm**, 20  
**Image analysis**, 62, 88, 147, 150  
**Image processing**, 70, 73  
**Image texture analysis**, 104  
**Imaging**, 144  
**Imaging system**, 132  
**Immature inflorescence**, 36  
**Immature stages**, 49  
**Immobilization**, 25  
**Immunization**, 96  
**Impact bruise damage**, 103  
**In vitro**, 77  
**In vitro bioaccessibility**, 125, 137  
**In vitro digestibility**, 69  
**In vitro digestion**, 88, 140, 146  
**In vitro lycopene bioaccessibility**, 122

**Inactivation**, 145  
**Incidence**, 85  
**Incubation period**, 60  
**Indigenous**, 144  
**Indole-3-acetonitrile**, 36, 56  
**Indole-3-carbinole**, 36, 56  
**Induced resistance**, 118  
**Inert material**, 9  
**Infection**, 9, 14, 16, 17, 97  
**Infrared**, 61, 117, 150  
Infrared drying, 132  
**Infrared radiation**, 82  
**Inhibition**, 134  
**Inhibitors**, 95  
**Inhibitory activity**, 16  
**Integrated modelling**, 29, 30  
**Internal maturity**, 123  
**Inulin**, 70  
**Inventors**, 74  
**Irradiation**, 8, 12, 18, 46, 66, 72, 101  
**Isolation**, 10  
**Isomerisation kinetics**, 132  
**Isomerization**, 122  
**Isosteric heat**, 61  
**Isotherm**, 126  
**Isothermal**, 61, 130, 131  
**Isothiocyanates**, 32, 42  
**Italica group**, 39  
**ITS**, 83

## **J**

**Jalapeño pepper**, 47  
**Japanese white radish**, 78  
**Juice concentrate**, 143  
**Juice quality**, 143  
**Juices**, 126

## **K**

**Kailan hybrid**, 40, 41, 42  
**Kale**, 77

**Keeping quality**, 35  
**Ketchup sauce**, 107  
**Kidney bean**, 44, 52  
**Kinetic modeling**, 39  
**Kinetic models**, 140  
**Kinetic resolution**, 94  
**Kinetics**, 11, 37, 59, 63, 66, 82, 94, 125, 146, 152  
**Kinetics modelling**, 126  
**Kluyveromyces marxianus**, 151  
**Knives**, 99  
**Kohlrabi**, 55

## **L**

**LAB**, 87  
**Lachrymatory factor**, 8  
**Lactic acid**, 47  
**Lactic acid bacteria**, 55, 94  
**Lactic acid fermentation**, 62  
**Lactic acids**, 88  
**Lactobacillus plantarum**, 55, 78  
**Lactobacillus sakei**, 79  
**Lactuca sativa**, 53, 97, 98, 99  
**l-ascorbic acid**, 54  
**L-ascorbic acid**, 32, 54, 100, 138  
**Leaching**, 94  
**Leaf colour**, 55  
**Leaf damage**, 17  
**Leafy vegetables**, 21, 85, 93  
**Leaves**, 23, 96  
**Lectin fluorescence assay**, 104  
**Legumes**, 44  
**Le-MADS-RIN**, 117  
**Lettuce**, 16, 19, 52, 53, 55, 95, 96, 97, 98, 99, 100  
**Leuconostoc mesenteroides**, 55  
**LF-NMR**, 58  
**Light**, 29, 30, 54, 91, 98  
**Light exposure**, 39, 100  
**Light irradiation**, 109  
**Light processing**, 1, 3

**Light pulses**, 20  
**Lighting**, 2  
**Lights**, 111  
**Lignification**, 2, 140  
**Lignin**, 4, 105, 145  
**Lignocellulose**, 24  
**Linear response**, 15  
**Lipid hydroperoxide**, 91  
**Lipid oxidation**, 56, 73, 92  
**Lipid peroxidation**, 1, 18, 38  
**Lipids**, 126  
**Lipoxygenase**, 40, 116, 125  
**Lippia multiflora**, 75  
**Listeria**, 85  
**Listeria monocytogenes**, 9, 13, 56, 92, 140  
**Local products**, 99  
**Locular gel**, 122  
**Low acid foods**, 152  
**Low temperature**, 57, 101  
**Low temperature storage**, 17  
**Low-pressure oxygen**, 98  
**Low-pressure superheated steam drying**, 129  
**Lutein**, 40, 42, 92  
**Lycopene**, 103, 104, 105, 106, 109, 110, 112, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126  
 Lycopene content, 107  
**Lycopene isomers**, 126  
**Lycopersicon esculentum**, 102, 103, 104, 105, 106, 109, 110, 113, 114, 116, 119  
**Lyophilization**, 150

## **M**

**Maceration**, 152  
**Machine vision**, 64, 73  
**Macro perforated LDPE**, 149  
**Macroelements**, 138  
**Magnetic resonance imaging**, 81, 119  
**Maillard browning**, 58  
**Maillard reaction**, 66, 73, 92  
**MALDI-TOF MS**, 94

**Malondialdehyde**, 145  
**Malto-oligosaccharides**, 152  
**Manothermosonication (MTS)**, 150  
**MAP**, 3, 12, 21, 38, 50, 102, 129, 135, 151  
**Marine yeast**, 102  
**Marketability**, 33  
**Marketing**, 144  
**Mashed potatoes**, 70  
**Mass spectrometry**, 18, 153  
**Mass transfer**, 9, 22, 73, 79, 133, 136  
**Mass transfer kinetic**, 22  
**Mass transport properties**, 34, 37  
**Mass-spectroscopy**, 13  
**Mathematical model**, 73, 93  
**Mathematical modelling**, 9, 133, 136, 142  
**Mathematical morphology**, 104  
**Maturity**, 64, 80, 115, 118, 121, 123  
**Maturity stage**, 103, 108  
**Maïle test**, 105  
**Maximal stability**, 83  
**Meals**, 18, 19  
**Mechanical parameter**, 23  
**Mechanical properties**, 6, 58, 69, 73, 121, 122, 135, 145  
**Mechanical stress**, 67  
**Mechanistic model**, 93  
**Medfly**, 49  
**Membrane degradation**, 18  
**Membrane filtration**, 26  
**Mesocarp**, 122  
**Mesophilic bacillus**, 64  
**Mesophilic bacteria**, 70  
**Metabolic characterization**, 118  
**Metabolic profiling**, 67, 118, 122  
**Metabolism**, 9, 20, 124  
**Metabolomics**, 50, 118  
**Metal chelating**, 44  
**Methane**, 58  
**Methane potential**, 68  
**Methanogenesis**, 73  
**Methanol**, 113  
**Method of preparation**, 99

**Methods**, 19  
**Methyl jasmonate**, 45, 107, 135  
**Methylcellulose**, 135  
**Methylcyclopropene**, 5  
**Micellarization**, 88  
**Micelles**, 140  
**Microbial composition**, 111  
**Microbial degradation**, 22  
**Microbial diversity**, 17  
**Microbial electricity**, 73  
**Microbial enumeration**, 16  
**Microbial flora**, 47  
**Microbial fuel cell**, 73  
**Microbial growth**, 16, 148  
**Microbial inactivation**, 16  
**Microbial loads**, 2, 50  
**Microbial response**, 17  
**Microbial spoilage**, 118  
**Microbial stabilization**, 4  
**Microbiological quality**, 7, 20, 127, 136, 141  
**Microbiological safety**, 77  
**Microbiology**, 19, 21, 120  
**Microencapsulation**, 12, 50  
**Micromanipulation**, 117  
**Microorganism fate**, 16  
**Microorganisms**, 15, 91, 103, 115, 123  
**Microscopy**, 38, 109, 141, 147, 150  
**Microstructure**, 26, 45, 52, 59, 60, 69, 73, 88, 101, 128, 130, 142, 145, 147, 150  
**Microtomography**, 147, 150  
**Microwave**, 6, 9, 25, 26, 36, 47, 61, 68, 90, 92, 138, 147  
**Microwave cooking**, 60  
**Microwave drying**, 10, 142  
**Microwave freeze drying**, 69  
**Microwave heating**, 137, 143  
**Microwave irradiation**, 75  
**Microwave pasteurization**, 4  
**Microwave pre-thawing**, 65  
**Microwave vacuum drying**, 68, 127  
**Mild-heat**, 8  
**Minerals**, 84  
**Minestrone**, 93  
**Minimal processing**, 4, 7, 20, 21, 37, 104, 145  
**Minimally processed**, 41, 100, 135, 140  
**Minimally processed broccoli**, 32, 33, 34, 36, 37  
**Minimally processed carrots**, 128, 129  
**Minimally processed foods**, 90  
**Minimally processed vegetables**, 27, 29, 30, 41, 54, 93  
**Minimum integral entropy**, 83  
**Mitigation**, 68  
**Mixed chips**, 68  
**Mixed gas**, 111  
**Model**, 117  
**Modélisation**, 36  
**Modelling**, 21, 28, 34, 36, 57, 61, 63, 74, 79, 94, 101, 130, 131, 133, 137, 142, 147  
**Models**, 72, 117, 128  
**Modified atmosphere**, 58, 77  
**Modified atmosphere packaging**, 1, 2, 4, 7, 26, 29, 30, 32, 49, 51, 76, 77, 92, 94, 98, 101, 106, 107, 128, 129, 136  
**Modified glassy carbon electrode**, 15  
**Moisture content**, 10, 128, 132  
**Moisture diffusivity**, 10  
**Moisture loss**, 11  
**Moisture profiles**, 37  
**Moisture ratio**, 102, 143  
**Moisture sorption isotherms**, 93  
**Molasses**, 21, 22, 25, 130  
**Molds**, 83  
**Molecular weight**, 43  
**Momotaro**, 123  
**Monocytogenes**, 85  
**Monoglutamates**, 28  
**Monte Carlo simulation**, 28  
**Monte Carlo simulations**, 93  
**MRI**, 37, 110, 147, 150  
**Multihurdle intervention**, 17  
**Multiphase**, 74  
**Multi-response**, 29, 30, 31, 79  
**Multispectral image**, 20

Multivariate analysis, 50  
Multivariate data analysis, 152  
Murine norovirus, 14  
Mustard greens, 77  
Mustard seeds, 42  
m-Xylene, 81  
Mycelial growth, 12  
Mycotoxins, 87  
Myrosinase, 26, 27, 40, 42  
Myrosinase activity, 27

## N

Nano-mist, 20  
Nanoparticles, 149  
Narezushi, 78  
Native microflora, 36, 41, 127  
Natural coagulants, 22  
Natural contamination, 87  
Natural frequency, 107  
Natural microflora, 16  
Natural products, 115  
Near infrared spectroscopy, 123  
Near-aseptic packaging, 70  
Near-infrared spectroscopy, 113  
Neobetanin, 24  
Neural network, 24, 25, 53, 143  
Neuroprotective, 52  
New Zealand, 92  
NIR spectroscopy, 3  
Nitrate in vegetables, 85  
Nitrates, 19, 34, 52, 85, 141  
Nitric oxide, 81, 95, 118  
Nitric oxide synthase, 118  
Nitrite, 18, 52  
Nitrophenolates, 46  
NMR, 91, 110, 147, 150  
Noble gas mixture, 1  
Noise, 132  
Non thermal, 148  
Non-dairy probiotic products, 95  
Nondestructive, 29, 30

Nondestructive analysis, 3, 119  
Non-enzymatic browning, 151  
Nonlinearity measures, 11  
Non-ripening mutants, 102  
Non-thermal hurdle processing, 150  
Non-thermal processing, 151  
Non-uniform, 113  
Normal potato, 69  
Novel processing, 152  
Novel product, 89  
Nuclear magnetic resonance, 58, 149  
Nuclease, 80  
Nucleation, 75  
Numerical, 132  
Numerical simulation, 150  
Nutrient retention, 15  
Nutrient stability, 76  
Nutrition, 35, 44, 76, 89, 99, 148  
Nutritional changes, 51  
Nutritional value, 107  
Nutritive value, 55, 148

## O

O<sub>2</sub> sensor, 39  
O<sub>2</sub> uptake rate, 113  
Off-flavour, 111  
Ohmic heating, 92, 93, 137, 143  
Oil, 72  
Oil absorption, 57, 60, 62, 74  
Oil content, 85  
Oil distribution, 60  
Oil oxidation, 4  
Oil partitioning, 63  
Oil uptake, 62, 63, 68  
Oily area, 62  
Oleic acid, 135  
Oleoresins, 81  
Olive oil, 89, 106  
Onions, 6, 7, 8, 14  
Open field, 100  
Optimization, 47, 60, 146, 152, 153



**ORAC**, 31, 54, 97  
**Ordinary atmosphere packaging**, 50  
**Organic**, 86  
**Organic acids**, 46, 64, 72  
**Organic compound**, 139  
**Organic green tea**, 35  
**Organic production**, 152  
**Organic salts**, 98  
**Organic volatile compounds**, 34  
**Origanum oil**, 115  
**Osmotic dehydration**, 21, 22, 24, 78, 79, 88, 102, 130, 131  
**Osmotic dehydrofreezing**, 149  
**Osmotic pressure**, 111  
**Osmotic stress**, 36  
**Osmotical dehydration**, 22  
**Osmotolerant**, 66  
**Outside weather condition**, 124  
**Overall appearance**, 41  
**Overall quality**, 107  
**Oxidation reaction**, 17  
**Oxidation reduction potential**, 14, 19  
**Oxidative stress**, 42  
**Oxygen permeability**, 145  
**Oxylipins**, 45  
**Ozonated-water**, 136  
**Ozone**, 15, 17, 88, 99, 104, 118, 130, 145  
**Ozone sanitation**, 100

## **P**

**Packaged baby spinach**, 16  
**Packaged good**, 15  
**Packaging**, 2, 3, 7, 8, 15, 35, 37, 53, 57, 77, 78, 89, 106, 107, 136  
**Packaging films**, 29, 30, 34, 54  
**Packaging materials**, 129, 150  
**Packaging treatments**, 32  
**PAL**, 100  
**PAL activity**, 64, 135  
**Paprika**, 47, 82, 83  
**Paprika powder**, 82

**Partial dehydration**, 50  
**Partial least square (PLS) regression**, 123  
**Particle size distribution**, 20, 135  
**Paste rheology**, 75  
**Pasteurization**, 6, 90, 146, 148  
**Pasting properties**, 68  
**Pathogen growth**, 17  
**Pathogen load**, 16  
**Pathogen resistance**, 117  
**Pathogen survival**, 17  
**Pathogenesis-related proteins (PR)**, 110  
**Pathogens**, 41, 45, 99  
**PC-12 cells**, 31  
**PCA**, 135  
**PCR-RFLP**, 83  
**Pea**, 4, 43, 84  
**Pectin**, 6, 25, 38, 40, 47, 86, 103, 104, 108, 113  
**Pectin methylesterase (PME)**, 103, 113, 114, 134  
**Pectin methylesterase inhibitor (PMEI)**, 134  
**Pectinase**, 124  
**Pectinesterase**, 22, 45  
**Pectinmethylesterase**, 108  
**Pectins**, 22  
**Pectobacterium atrosepticum**, 76  
**Peleg's model**, 24  
**Peleg's model**, 13  
**Penetration depths**, 90  
**Penicillium expansum**, 120  
**Pepper bells**, 50  
**Peppers**, 46, 47, 48, 49, 51  
**Perceptions**, 86  
**Perforated**, 26  
**Perforated film**, 29  
**Perforations**, 129  
**Permeability coefficient**, 129  
**Peroxidase**, 33, 38, 61, 97  
**Peroxidase activity**, 150  
**Peroxidase enzyme**, 140  
**Peroxide**, 36  
**Peroxyacetic acid**, 19  
**Pest assessment control**, 11

**Pesticide residues**, 19, 80  
**Pesticides**, 11, 49, 148  
**pH**, 82, 141  
**pH influence**, 40  
**pH range**, 16  
**Pharmacognosy**, 23  
**Phaseolus vulgaris**, 43, 51  
**Phenolic acid content**, 14  
**Phenolic acids**, 7, 12  
**Phenolic compounds**, 13, 27, 35, 39, 48, 60, 70, 84, 99, 105, 117, 122  
**Phenolics**, 1, 5, 8, 9, 37, 41, 42, 44, 47, 48, 52, 55, 64, 67, 72, 86, 88, 100, 101, 106, 121, 127, 145  
**Phenols**, 41, 64, 116, 146  
**Phenylalanine ammonia-lyase**, 101  
**Pheophytinase**, 40  
**PheS gene**, 94  
**Photostimulated luminescence**, 12, 72  
**Photosynthesis**, 88  
**Photosystem-I**, 14  
**Photovac explorer**, 114  
**Phyllosphere bacterial community**, 17  
**Physical barriers**, 105  
**Physical measurement**, 19  
**Physical properties**, 43, 61, 125  
**Physical quality**, 126  
**Physical stability**, 125  
**Physicochemical characterization**, 137  
**Physicochemical parameters**, 41, 125  
**Physicochemical properties**, 7, 10, 50, 63, 120, 142, 145  
**Physio-biochemical**, 31  
**Phytochemical**, 140  
**Phytochemical composition**, 3  
**Phytochemical compounds**, 90  
**Phytochemical content**, 84  
**Phytochemicals**, 33, 35, 67, 100  
**Phytocompounds**, 93  
**Pichia guilliermondii**, 103, 113  
**Pickling**, 36, 56  
**Pickling cucumber**, 81  
**Pigments**, 10, 112  
**Pisum sativum**, 43, 44  
**Plant biochemistry**, 9, 23  
**Plant cell particles**, 146  
**Plant diseases**, 11, 74  
**Plant growth regulators**, 45  
**Plant parenchyma**, 104  
**Plant products**, 85  
**Plant proteins**, 45  
**Plant roots**, 21  
**Plant tissue**, 58  
**Plate compression test**, 121  
**Platform chemical**, 72  
**PLC**, 18  
**PLD**, 18  
**PLS**, 38  
**PLSDA**, 70  
**PLSR**, 117  
**Plum**, 94  
**Plypropylene**, 77  
**POD**, 100  
**Polyacetylenes**, 149, 150  
**Polyacrylamide gel electrophoresis**, 110  
**Polyethylene**, 77  
**Polygalacturonase**, 22, 47, 103, 104, 112, 114  
**Polymerase chain reaction**, 21  
**Polyphenol oxidase**, 23, 61, 95, 97, 99, 101  
**Polyphenolic compounds**, 65  
**Polyphenols**, 46, 51, 54, 86, 88, 89, 99, 121, 134, 135  
**Polypropylene**, 128  
**Polypropylene film**, 26  
**Polypropylene film package**, 129  
**Polyvinylpyrrolidone**, 2  
**Poly- $\gamma$ -glutamates**, 30  
**Pore size distribution**, 147, 150  
**Porosity**, 73, 90, 133  
**Porous media**, 9, 74  
**Post-frying cooling**, 62  
**Postharvest**, 19, 29, 31, 32, 40, 48, 49, 53, 83, 90, 100, 101, 105, 121  
**Postharvest damage**, 67

**Postharvest disease**, 71, 134, 144, 149  
**Postharvest disease control**, 109  
**Postharvest fungal spoilage**, 113  
**Postharvest life**, 28  
**Postharvest losses**, 124  
**Postharvest physiology**, 41, 84, 104  
**Postharvest pre-storage treatment**, 110  
**Postharvest processing**, 19, 144  
**Postharvest quality**, 4, 109, 114  
**Postharvest ripening**, 110  
**Postharvest senescence**, 36  
**Postharvest sprays**, 142  
**Postharvest storage**, 33, 35, 68  
**Postharvest technology**, 44, 138  
**Postharvest treatment**, 53  
**Postharvest UV-B irradiation**, 118, 125  
**Potassium**, 69  
 Potassium permanganate, 106  
**Potassium tetraborate**, 72  
**Potato**, 12, 59, 60, 61, 62, 63, 64, 65, 66, 68, 70, 71, 72, 73, 74, 75, 76, 88, 130, 131  
**Potato chips**, 57, 62, 63, 67, 73  
**Potato cooking**, 58  
**Potato cooking methods**, 75  
**Potato flour**, 68  
**Potato peel**, 65, 66, 70  
**Potato protein**, 69  
**Potato sheet**, 71  
**Potato slices**, 60, 63, 64, 69  
**Potato sprouting**, 75  
**Potato starch**, 62, 68, 69, 70, 72, 73, 76  
**Potato stillage**, 59  
**Potato strips**, 70  
**Potato tuber**, 72  
**Potato tuber peeling**, 75  
**Potato variety**, 61  
**Potatoes**, 57, 59, 61, 64, 65, 67, 71, 74  
**Potato-juice**, 68  
**Powder coating**, 149  
**Power consumption**, 74  
**Power ultrasound**, 133  
**PPO**, 100  
**PPO activity**, 53, 55, 64  
**Precooked potato**, 65  
**Predictive microbiology**, 135  
**Pre-harvest**, 90  
**Preharvest factors**, 36, 100  
**Preharvest UV-C treatment**, 117  
**Preparing for consumption**, 4  
**Preparation method**, 93  
**Pre-processing**, 137  
**Preschoolers**, 93  
**Preservation**, 19, 115  
**Preservatives**, 114, 127  
**Preserved foods**, 89  
**Pressure**, 45  
**Pressure-assisted thermal processing**, 129, 131, 150  
**Pressurized fluid extraction**, 148  
**Pre-storage treatment**, 105  
**Pretreatment**, 4, 24, 59, 61, 106, 127, 131, 142, 145, 146  
**Primary metabolism**, 67  
**Primers**, 21  
**Principal component analysis**, 118, 123, 126  
**Probiotics**, 148  
**Process target cost**, 93  
**Process variables**, 12  
**Processed cabbage**, 77  
**Processed spinach food**, 14  
**Processing**, 13, 24, 38, 40, 42, 43, 44, 56, 58, 67, 92, 121, 126, 127, 136, 144, 146, 151, 152  
**Processing factor**, 19  
**Processing quality**, 64  
**Product quality**, 16, 48, 65  
**Product storage temperature**, 16  
**Products**, 57  
**Programmed cell death**, 80  
**Proline**, 123  
**Protective atmosphere**, 35  
**Protein**, 76  
**Protein degradation**, 17  
**Protein degradation reactions**, 56  
**Protein extraction**, 47

**Protein isolate**, 52  
**Proteome analysis**, 113  
**Proximate composition**, 111  
**Prussian blue**, 105  
**Pteroylpolyglutamate hydrolase**, 28  
**PTR MS**, 38  
**Public health**, 26, 28  
**Puffing**, 59, 60  
**Puffing kinetics**, 69  
**Pulsed electric fields**, 4, 13, 62, 70, 74, 126, 127, 128, 134, 150  
**Pumpkin**, 78  
**Puncture test**, 80, 121  
**Pungency**, 46  
**Puree**, 7, 40, 104, 135  
**Purification**, 23, 99  
**Purple carrot**, 134  
**Purple sweet potato**, 58, 60  
**Pyruvate accumulation**, 80

## Q

**QPM**, 51  
**Quality**, 2, 3, 5, 10, 17, 21, 27, 29, 30, 34, 36, 37, 39, 41, 42, 45, 46, 50, 53, 54, 55, 66, 70, 98, 100, 102, 103, 106, 108, 115, 122, 124, 137, 138, 140, 141, 142, 143  
**Quality attributes**, 91, 118  
**Quality character**, 108  
**Quality control**, 86  
**Quality parameters**, 42  
**Quality perception**, 91  
**Quality related enzymes**, 137  
**Quality-related attributes**, 115  
**Quercetin**, 6

## R

**Rachis**, 126  
**Radiation**, 44  
**Radiation biology**, 95  
**Radical scavenging activity**, 46, 103

**Radioactivity**, 80  
**Radish**, 78, 79  
**Radish seed**, 79  
**Rain**, 120  
**Raman spectroscopy**, 118, 123  
**Random forest**, 50  
**Raw juice**, 22  
**Reaction mechanisms**, 81  
**Reaction rate**, 23  
**Reaction system**, 10  
**Ready to eat**, 10, 85, 128, 135  
**Ready-to eat snacks**, 53  
**Ready-to-eat vegetables**, 92  
**Real-time data reduction**, 132  
**Real-time PCR**, 39  
**Recombinant fusion proteins**, 45  
**Red beet**, 23, 25, 26  
**Red beet root**, 24, 94  
**Red bell-pepper**, 48, 50  
**Red cabbage**, 22  
**Red paprika**, 83  
**Red pepper**, 45, 46, 47, 50  
**Red pepper seeds**, 47  
**Redox-potential**, 14  
**Reducing sugars**, 63, 70, 132  
**Reduction time**, 23  
**Refractance window drying**, 83  
**Refrigerated**, 3, 87  
**Refrigerated food storage**, 17  
**Refrigerated leafy green**, 16  
**Refrigerated storage**, 10  
**Refrigeration**, 101, 109  
**Regression analysis**, 53  
**Reheating**, 58  
**Rehydration**, 45, 59, 134, 147  
**Rehydration ability**, 108  
**Rehydration kinetic**, 13  
**Rehydration ratio**, 138  
**Relative electrolyte leakage**, 145  
**Relative humidity**, 106, 115, 129, 132, 133  
**Relative roughness facto**, 88  
**Relaxation**, 110

**Relaxometry**, 81  
**Release profile**, 75  
**Repeated-batch process**, 66  
**Reproduction**, 9  
**Resistant starch**, 43, 65  
**Respiration**, 20, 58, 77, 111, 114  
**Respiration rate**, 28, 32, 39, 42, 99, 129, 135  
**Response surface**, 146  
**Response surface methodology**, 47, 51, 60, 68, 103, 108, 139, 142, 143  
**Re-structured**, 68  
**Retinol activity equivalent**, 83  
**Retrogradation**, 58  
**Rheological characteristics**, 62  
**Rheological properties**, 67, 107  
**Rheology**, 25, 72, 75, 121, 125  
**Rhizopus nigricans**, 103  
**Rhizopus stolonifer**, 87  
**Rhodospiridium paludigenum**, 102  
**Ripening**, 20, 80, 102, 104, 112, 116, 117, 118, 119, 124  
**Ripening stages**, 116  
**Risk factors**, 91  
**Road transport**, 107  
**Roasting**, 40  
**Rocket salad**, 89  
**Romaine lettuce**, 100  
**Roots**, 23, 139, 144, 148  
**Rotating tray dryer**, 121  
**RTU leafy spinach**, 20

## S

**Saccharides**, 136  
**Saccharomyces cerevisiae**, 22, 25, 26  
**Saccharose**, 21, 22, 130  
**Safety**, 21  
**Sakacin**, 79  
**Salinity**, 56  
**Salinity effect**, 97  
**Salmonella**, 14, 85, 92, 115, 120  
**Salmonella typhimurium**, 56

**Salt**, 69  
**Salting**, 58  
**Sanitation**, 99  
**Sanitizer solutions**, 50  
**Satellite meteorology**, 124  
**Sauteing**, 77  
**Scanning electron microscope**, 59  
**Scanning electron microscopy**, 105  
**Scavenging activity**, 10, 72  
**Sclerotinia sclerotiorum**, 130  
**Scorbigen**, 31  
**Scoville heat unit**, 83  
**Sealable films**, 91  
**Sealed package**, 16  
**Seasonal variation**, 5  
**Secondary metabolite**, 37  
**Seeds**, 6, 65  
**Selection**, 8  
**Selenation**, 75  
**Selenium**, 40  
**SEM**, 68, 147, 150  
**Semi-industrial-continuous band dryer**, 142  
**Semolina**, 68  
**Senescence**, 13, 17, 18, 20, 28, 29, 31, 33, 36, 38, 39, 40, 80, 112  
**Sensorial analysis**, 4  
**Sensorial properties**, 153  
**Sensory**, 7, 85, 109, 112, 141  
**Sensory analysis**, 88  
**Sensory appearance**, 152  
**Sensory assessment**, 89  
**Sensory attributes**, 127  
**Sensory evaluation**, 50, 72, 109, 111, 125, 130, 143, 150  
**Sensory perception**, 35, 55, 98, 137  
**Sensory properties**, 61  
**Sensory quality**, 11, 36, 77, 118, 119, 136, 141  
**Sensory test**, 152  
**Shade drying**, 18  
**Shallot**, 7  
**Shape**, 73  
**Shatter**, 126

**Shear test**, 69, 73  
**Shelf life**, 1, 2, 4, 5, 13, 17, 20, 27, 32, 34, 37, 38, 39, 46, 87, 93, 97, 101, 102, 106, 107, 111, 114, 124, 128, 129, 141, 149, 151  
**Shelf life quality**, 149  
**Shredded**, 76  
**Shredded carrot**, 136, 141, 149  
**Shrinkage**, 10, 64, 71, 88, 108, 117, 127, 132, 133, 136, 147  
**Silication**, 75  
**Silver**, 149  
**Silver nanoparticles**, 2  
**Simple NN**, 53  
**Simulated food particles**, 146  
**Simultaneous saccharification**, 151  
**Simultaneous saccharification and fermentation (SSF)**, 66  
**Single cell compression**, 117  
**Size exclusion chromatography**, 103  
**Slice thickness**, 119  
**Sliced carrots**, 140  
**Slices**, 120  
**Slurry massecuite**, 24  
**Smirnof-Wheeler pathway**, 74  
**Snack food**, 59  
**Snacks**, 63  
**Soaking**, 142, 145, 153  
**Sodium**, 69  
**Sodium benzoate**, 114  
**Sodium hypochlorite**, 87  
**Softening**, 102, 104  
**Soil moisture**, 28  
**Solanum andigenum**, 76  
**Solanum lycopersicum**, 112, 114, 122, 124, 125  
**Solanum tuberosum**, 60, 64, 67, 68, 72, 74, 76  
**Solar dryer**, 108, 119  
**Solar drying**, 8  
**Solar radiation**, 141  
**Soluble sugar**, 100  
**Solvent extraction**, 124  
**Sorbate**, 78  
**Sorption isotherms**, 11, 45, 61  
**Sorting**, 112  
**Soup**, 89  
**Sous vide**, 137, 141  
**Soybean**, 94  
**Spears**, 2  
**Specific energy consumption**, 132  
**Specific heat**, 93  
**Specific moisture loss**, 102  
**Spectroelectrochemistry**, 14  
**Spectrophotometry**, 13  
**Spectroradiometry**, 126  
**Spectroscopy**, 117, 119  
**Spesific energy consumption**, 147  
**Spinach**, 12, 13, 14, 15, 16, 17, 18, 19, 20, 94, 98  
**Spinacia oleracea**, 14, 21  
**Spin-lattice relaxation**, 81  
**Spin-spin relaxation**, 81  
**SPME**, 81, 119  
**SPME-GC-MS**, 50  
**Spoilage**, 4, 104, 136  
**Spontaneous cauliflower fermentation**, 55, 56  
**Spray drying**, 12, 24, 83  
**Spring onion**, 88  
**Sprouting pattern**, 60  
**Stabilisation treatments**, 6  
**Stability**, 27, 53, 67, 92, 144  
**Standard**, 117  
**Staphylococcus aureus**, 13, 135  
**Starch**, 67, 69, 75, 76, 107, 152  
**Starch digestibility**, 71  
**Starch gelatinization**, 63  
**Starch-based waste**, 75  
**Statistical analysis**, 87, 89, 119  
**Steam**, 134, 144  
**Steam cooking**, 6  
**Steam process**, 31  
**Steaming**, 20, 46, 51, 77, 90  
**Stem softening**, 42  
**Stepwise regression analysis**, 110  
**Sterilisation**, 6, 7, 94, 133, 137, 146  
**Sterols**, 34, 121  
**Stone seed**, 43

**Storability**, 6  
**Storage**, 1, 2, 3, 4, 6, 7, 8, 12, 13, 15, 16, 19, 23, 26, 27, 29, 31, 32, 35, 36, 38, 42, 44, 46, 48, 49, 51, 52, 53, 54, 57, 60, 61, 64, 65, 67, 71, 74, 76, 77, 80, 83, 87, 90, 96, 101, 103, 104, 106, 108, 109, 112, 118, 119, 120, 123, 125, 127, 128, 131, 139, 142, 143, 144, 148  
**Storage conditions**, 102, 108, 126  
**Storage decay**, 11  
**Storage life**, 34, 36, 98  
**Storage period**, 132, 133  
**Storage potential**, 6  
**Storage quality**, 98  
**Storage roots**, 1  
**Storage stability**, 56, 92, 129, 150  
**Storage studies**, 111  
**Storage temperature**, 53, 64  
**Storage time**, 115  
**Stored product pests**, 11  
**Strain**, 116  
**Strawberries**, 131  
**Strawberry**, 108, 136  
**Stress**, 116  
**Stress release**, 23  
**Structural influence**, 40  
**Structure**, 70, 125, 137  
**Studies**, 57  
**Subcritical state**, 82  
**Subcritical water**, 70  
**Suberin**, 68, 105  
**Suberization**, 140  
**Sublimation drying**, 66  
**Substitution**, 59  
**Subsurface detection**, 123  
**Successive degradation**, 98  
**Sucrose**, 1, 69, 94, 151, 152  
**Sugar**, 28, 111  
**Sugar beet**, 22, 23, 25  
**Sugar beet juice**, 26  
**Sugar beet molasses**, 22, 24  
**Sugar beet pectins**, 21  
**Sugar beet pulp**, 25  
**Sugar content**, 1, 98, 129  
**Sugars**, 7, 36, 46, 88, 121, 141  
**Sugars total**, 138  
**Sulf**, 71  
**Sulfate**, 71, 149  
**Sulfation**, 75  
**Sulfite**, 149  
**Sulforaphane**, 31, 40, 42  
**Sulphuric fertilization**, 34  
**Sun drying**, 18  
**Superatmospheric oxygen**, 77  
**Supercooling**, 10, 75  
**Supercritical carbon dioxide**, 128, 130  
**Supercritical fluid extraction (SFE)**, 50  
**Superoxide anion radical scavenging capacity**, 78  
**Surface area**, 61, 63  
**Surface concentration**, 15  
**Surface free energy**, 52  
**Surface hydrophobicity**, 52  
**surface methodology**, 79  
**Surface morphology**, 98  
**Surface shear stress**, 58  
**Surfusion**, 10  
**Surgélation**, 36  
**Survey**, 10  
**Survival**, 14  
**Survival rate**, 16  
**Sweet pepper**, 44, 46, 48, 87  
**Sweetening**, 57, 64  
**Swell drying**, 90  
**Swelling**, 76  
**Synechococcus elongates**, 14  
**Syneresis**, 40, 58  
**Synergistic effect**, 112, 116  
**Synergy**, 152  
**Synthetic antioxidants**, 86  
**Synthetic mixtures**, 112  
**Synthetic preservatives**, 86

## T

- Table grapes**, 126
- Tallman**, 102
- Tannins**, 44
- Taste**, 113
- Taurine**, 66
- Temperature**, 4, 16, 28, 39, 43, 48, 49, 59, 65, 72, 76, 80, 94, 96, 97, 98, 102, 106, 111, 113, 119, 120, 129, 147, 152
- Temperature cling**, 9
- Temperature effects**, 49
- Temperature of air drying**, 128
- Temperature storage**, 16, 33
- Temperature treatment**, 27
- Tempering**, 61
- Tenderstem**, 37, 41
- Ternary solutions**, 109
- Terpenes**, 121
- Testing**, 143
- Textural properties**, 123
- Texture**, 2, 3, 4, 10, 25, 38, 45, 59, 62, 70, 72, 75, 77, 80, 86, 88, 92, 104, 117, 121, 131, 140, 141, 149, 150
- Texture degradation**, 59
- Texture profile analysis**, 61
- Texturizing**, 61
- Thermal**, 144
- Thermal and high pressure processing**, 134
- Thermal conductivity**, 63, 93, 146
- Thermal degradation**, 40, 81, 136
- Thermal pretreatments**, 137
- Thermal processing**, 12, 61, 94, 122, 131, 141
- Thermal treatment**, 36, 53, 56, 137
- Thermic process**, 36
- Thermophilic aerobic biodegradation**, 66
- Thermophilic bacillus**, 64
- Thermo-physical**, 146
- Thermophysical properties**, 93
- Thermotolerant**, 66
- Thick juice**, 22, 25
- Thickeners**, 72
- Thielaviopsis basicola**, 134
- Thin juice**, 22
- Thin layer drying**, 78, 115, 133, 136, 142
- Thylakoids**, 14
- Tick juice stillage**, 22
- Time saving**, 142
- Tissue stability**, 76
- Tissues position**, 71
- Tocopherols**, 13, 89, 121
- Toluene**, 81
- Tomato**, 20, 87, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 135
- Tomato byproducts**, 121
- Tomato cell**, 117
- Tomato dehydration**, 121
- Tomato flavor varieties**, 118
- Tomato fruits**, 102, 103, 104, 109, 111, 116, 118, 121, 122, 123
- Tomato juices**, 103, 106, 108, 114, 125
- Tomato paste**, 111
- Tomato peel**, 107
- Tomato pericarp**, 104
- Tomato pomace**, 103
- Tomato processing**, 108
- Tomato puree**, 122
- Tomato ripening**, 109
- Tomato seed**, 107
- Tomatoes**, 107, 108, 109, 112, 115, 117, 120, 121
- Tortuosity**, 147, 150
- Total anthocyanins**, 76
- Total antioxidant activity**, 46
- Total antioxidant capacity**, 42, 90
- Total flavonoids**, 106
- Total phenolic compounds**, 106
- Total phenolic content**, 46
- Total phenolics**, 76
- Total phenols**, 54, 140
- Total polyphenols**, 40, 121
- Total soluble solids**, 121, 132



**Total viable count**, 114  
**Toughness**, 1  
**Toxicity**, 49  
**Toxins**, 65  
**Transcisisomers**, 92  
**Transgenic**, 71  
**Transmission electron microscopy**, 105  
**Transport**, 107, 124, 140  
**Transport phenomena**, 66, 141  
**Transport processes**, 9  
**Transportation**, 107  
**Transportation condition**, 16  
**Treatment**, 48, 83  
**Trichome**, 120  
**Tristimulus**, 114  
**Trolox equivalent anti-oxidant capacity**, 127  
**Tuber and root starches**, 59  
**Tuber development**, 74  
**Tuberization**, 74  
**Tubers**, 63, 64, 71  
**Two-step drying**, 152

## U

**UASB**, 68  
**Ultra violet**, 44  
**Ultrasonic transducers**, 49  
**Ultrasonication**, 136  
**Ultrasound**, 66, 75, 101, 114, 125, 141, 148, 151, 153  
**Ultrasound irradiation**, 75  
**Ultraviolet light**, 150  
**Ultraviolet radiation**, 91, 112  
**Uniaxial compression**, 73  
**Unit operation**, 9  
**UPLC-MS/MS**, 127  
**Uptake**, 140  
**UV light**, 95, 105  
**UV-A**, 29, 30  
**UV-B**, 29, 30, 33  
**UV-B treatment**, 40  
**UV-C hormesis**, 122

**UV-C treatment**, 27, 33  
**UV-light**, 105, 110

## V

**Vacuum**, 69  
**Vacuum break velocity**, 62  
**Vacuum cooking**, 61  
**Vacuum drying**, 68, 129, 152  
**Vacuum frying**, 57, 61, 62, 63, 85, 152  
**Vacuum impregnation**, 13, 47, 90  
**Vacuum microwave**, 128, 131  
**Vacuum microwave drying**, 10  
**Vacuum packaging**, 65, 77  
**Value added**, 5  
**Vanadyl sulphate**, 75  
**Vapor flux**, 74  
**Vapor phrase**, 16  
**Vapor pressure deficit**, 20  
**Vapor-liquid two-phase flow**, 61  
**Vegetable fat**, 88  
**Vegetable foods**, 84  
**Vegetable liking**, 93  
**Vegetable oils**, 43  
**Vegetable quality**, 86  
**Vegetable soup**, 93  
**Vegetables**, 4, 15, 19, 28, 34, 47, 55, 77, 84, 85, 86, 87, 88, 89, 91, 94, 95, 96, 98, 139, 140, 144, 151  
**Vegetation period**, 1  
**Ventilation**, 71, 74  
**Very high gravity (VHG)**, 66  
**Vibration**, 107  
**Vinegar**, 113  
**Virus**, 92  
**Virus detection**, 71  
**Viscoelasticity**, 70, 125  
**Viscosity**, 52, 72, 121, 125  
**Visible reflectance spectroscopy**, 110  
**Visual quality**, 29, 30  
**Vitamin A**, 89  
**Vitamin B**, 67

**Vitamin C**, 20, 27, 35, 40, 42, 45, 46, 47, 49, 51,  
74, 92, 100, 102, 116, 122, 139, 153  
**Vitamin E**, 26, 28  
**Vitamins**, 85, 87, 94  
**Volatile**, 38, 116  
**Volatile compounds**, 82, 116, 119  
**Volatile oil**, 10  
**Volatile oil retention**, 11  
**Volatiles**, 109, 115, 125  
**Volume**, 102  
**Volume ratio**, 63

## W

**Warm transfer**, 36  
**Wash water**, 19  
**Washing**, 2, 76, 80  
**Washing processes**, 58  
**Wastewater**, 24, 76  
**Wastewater treatment**, 73  
**Water absorption**, 10, 52  
**Water activity**, 39, 82, 83, 93, 126  
**Water content**, 39  
**Water diffusion**, 142  
**Water loss**, 63  
**Water permeability**, 149  
**Water soaking**, 80  
**Water sorption**, 70  
**Water stress**, 36  
**Water vapor permeability**, 145  
**Water vapour resistance**, 135  
**Water-holding capacity**, 70  
**Watermelon**, 110  
**Watermelon juices**, 108  
**Waxy potato**, 69  
**Weibull model**, 13, 100, 102, 114  
**Weibull modelling**, 150  
**Weight loss**, 8, 81  
**West Africa**, 87, 124  
**Wheat flour**, 59  
**Whey protein concentrate**, 99  
**White asparagus**, 2

**White blush**, 140  
**Whiteness index**, 128  
**Whole cell MALDI-TOF mass spectra**, 19  
**Wick application method**, 75  
**Winter carrot**, 147, 150  
**Winter squash**, 89  
**Women**, 144  
**Wooding drying**, 111  
**Wounding**, 74, 135

## X

**X rays**, 97  
**Xanthan**, 75  
**Xanthan gum**, 68, 72  
**X-ray diffraction**, 59, 72  
**X-ray irradiation**, 97

## Y

**Y. enterocolitica**, 85  
**Yeast saccharide (YS)**, 81  
**Yeasts**, 100, 114  
**Yellowing**, 32  
**Yellowness**, 33  
**Yields**, 138, 143  
**Yoghurt**, 148

## Z

**Zeaxanthin**, 92  
**Zeta potential**, 25, 68  
**Zincation**, 75  
**Zingiber officinale**, 75  
**Zucchini**, 90

## A

**$\alpha$ -Tocopherol**, 112

## B

**$\beta$ -carotene isomers**, 88, 140

**β-carotenoids**, 33, 35, 89, 92, 109, 117, 123,  
132, 134, 137, 141, 142, 145, 146, 147, 148  
**β-cyclodextrin**, 65  
**β-elimination**, 86, 141

Γ

**γ-irradiation**, 51  
**γ-radiation**, 7



