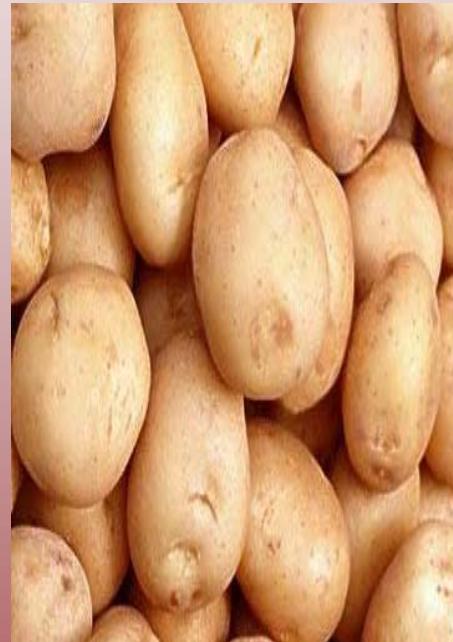


ISBN. 978-979-8943-28-7



BIBLIOGRAFI HASIL PENELITIAN PERTANIAN KOMODITAS BAWANG MERAH DAN KENTANG



PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI PERTANIAN
Badan Penelitian dan Pengembangan Pertanian
Departemen Pertanian
2009

Bibliografi

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Departemen Pertanian
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TEKNOLOGI PERTANIAN
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Homepage: //www.pustaka-deptan.go.id
ISBN. 978-979-8943-28-7

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2006

ScienceDirect	47
---------------------	----

2007

ScienceDirect	67
---------------------	----

2008	
ScienceDirect	95
Indeks	114

BIBLIOGRAFI BAWANG MERAH 2004

SCIENCEDIRECT

1. Total anoxidant activity and phenolic content in selected vegetables/ Amin Ismail, Zamaliah M. Marjan, Chin W. Foong
Food Chemistry, Volume 87, Issue 4, October 2004, p. 581-586,
ISSN 0308-8146

Keywords: Total anioxidant activity; Total phenolic content; Vegetables

BIBLIOGRAFI 2005

AGRICOLA

Integrated control for shallot disease and insects/Wu, J; Guo, H; Xie, M

Acta Horticulturae. 2005 , no 688; p. 191-193.

Keywords: Shallot; Disease; Insect; Integrated control

Juvenility and bolting in shallot (*Allium cepa* L. var. *ascalonicum* Backer)/ Tabor, G.; Stuetzel, H.; Zelleke, A .

Journal of Horticultural Science and Biotechnology. 2005 Nov; 80(6) p. 751-759.

Keywords: Shallot; Allium cepa; Juvenility; Bolting

Simultaneous speciation of selenium and sulfur species in selenized odorless garlic (*Allium sativum* L. Shiro) and shallot (*Allium ascalonicum*) by HPLC-inductively coupled plasma-(octopole reaction system)-mass spectrometry and electrospray ionization-tandem mass spectrometry/ Ogra,-Y. ...[et al.]

Journal-of-chromatography-A. 2005 Nov 4; 1093(1-2) p.118-125.

Keywords: Garlic; Allium sativum; Shallot; Allium ascalonicum; HPLC; Selenium; Sulfur

PROQUEST

Characterisation of the welsh onion solate of Shallot yellow stripe virus from China/ J. Chen[et al.]

Archives of Virology. New YorkOct 2005. Vol. 150, Iss. 10, p. 2091-2099

Keywords: Shallot yellow stripe virus; China

BIBLIOGRAFI 2006

AGRICOLA

2. Chromomal locations of microsatellites in onion/Masuzaki,-S. ...[et al.]

Hort Science a Publication of the American Society for Horticultural Science. 2006 Apr; 41(2) p. 315-318.

Keywords: Onion; Microsatellites

3. Direct comparin between genomic constution and flavonoid contents in *Allium mulple* alien addition lines reveals chromomal Iliquirigenin induces apoptosis by depolarizing mitochondrial membranes in prostate cancer cells/Jung, JI ...[et al.]

Journal Of Nutritional Biochemistry. 2006 Oct; 17(10) p. 689-696.

Keywords: Allium mulple; Chromonal iliquirigenin

4. Flower Bud Culture of Shallot (*Allium cepa* L. Aggregatum group) with Cytogenetic Analysis of Resulting Gynogenic Plants and maclones/Sulistyaningsih, E; Aoyagi, Y; Tashiro, Y

Plant Cell Tissue And Organ Culture. 2006 86(2) p. 249-255.

Keywords: Shallot; Allium cepa; Cytogenetic; Flower bud culture

5. Influence of planting material and duration of bulb vernalisation on bolting shallot (*Allium cepa* L. var. *ascalonicum* Backer)/
Tabor, G.; Stuetzel, H.; Zelleke, A.
Journal Of Horticultural Science And Biotechnology. 2006 Sept; 81(5) p. 797-802.
Keywords: Shallot; Allium cepa; Planting material; Bulb vernalisation
6. Locations of genes related to biosynthesis from dihydrokaempferol to quercen glucosides in scaly leaf of shallot (*Allium cepa* L.)./
Masuzaki, S.; Shigyo, M.; Yamchi, N.
Theoretical And Applied Genetics. 2006 Feb; 112(4) p. 607-617.
Keywords: Shallot; Allium cepa; Genes; Biosynthesis; Dihydrokaemferol
7. Quantative evaluation of the antioxidant properties of garlic and shallot preparations /Leelarungrayub, N. ...[et al.]
Nutrition. 2006 Mar; 22(3) p. 266-274.
Keywords: Garlic; Shallot; Antioxidant

BIBLIOGRAFI 2008

SCIENCEDIRECT

8. Beneficial effect of shallot (*Allium ascalonicum* L.) extract on cyclosporine nephrotoxicity in rats/O. Wongmekiat, N. Leelarugrayub, K. Thamprasert
Food and Chemical Toxicology Volume 46, Issue 5, May 2008, p. 1844-1850, ISSN 0278-6915,
Keywords: Nephrotoxicity; Cyclosporine; Shallot; Oxidative stress
9. Conversion of chromome-specific RAPDs into SCAR-based anchor markers for onion linkage maps and its application to genetic analyses in other Allium species/ Shin-ichi Masuzaki, ...[et al.]
Scien Horticulturae, Volume 115, Issue 4, 21 February 2008, p. 323-328, ISSN 0304-4238,
Keywords: Allium cepa; Anchor marker; Chromomal location; Random amplified polymorphic DNA (RAPD); Sequence characterized amplified region (SCAR)
10. Ethnoveterinary study for andermatophytic activity of Piper betle, *Alpinia galanga* and *Allium ascalonicum* extracts *in vitro*/N. Trakranrungsie, A. Chatchawanchoneera, W. Khunkit
Research in Veterinary Science, Volume 84, Issue 1, February 2008, p. 80-84, ISSN 0034-5288
Keywords Dermatophytes; Piperaceae; Zingiberaceae; Piper betle; Liliaceae; Antifungal activity
11. Flavonol glucosides in Allium species A comparave study by means of HPLC-DAD-ESI-MS-MS/ Paola Bonaccorsi, ...[et al.]
Food Chemistry, Volume 107, Issue 4, 15 April 2008, p. 1668-1673, ISSN 0308-8146
Keywords: Allium cepa L.; Allium ascalonicum Hort.; Flavonol glucosides; HPLC-DAD-ESI-MS-MS

TROPAG & RURAL

12. Shallot virus X in Indian shallot, a new virus report for India/
Majumder, S.[et al.]
Plant Pathology. 2008; 57(2) p. 396
Keywords: Indian shallot; Virus; India

13. Survey for viruses infecting onion, garlic and leek crops in Iran/
Shahraeen, N.; Lesemann, D.E.; Ghotbi, T.
Bulletin OEPP/EPPOBulletien. 2008; 38(1) p. 131-135
Keywords: Onion; Garlic; Leek; Viruses; Iran

BIBLIOGRAFI KENTANG 2004

SCIENCEDIRECT

1. Alpha-solanine and alpha-chaconine glycoalkaloid assay in *Solanum tuberosum* extracts by liposomes and time-resolved fluorescence/Maria A....[et al.]
Journal of Food Composition and Analysis, Volume 17, Issue 5, October 2004, p. 665-673, ISSN 0889-1575,
Keywords: Liposomes; Time resolved fluorescence; Potato glycoalkaloids assay
2. Analysis of genes differentially expressed during potato tuber life cycle and isolation of their promoter regions/Luisa M. Trindade ...[et al.]
Plant Science, Volume 166, Issue 2, February 2004, p. 423-433, ISSN 0168-9452
Keywords: Potato; Tuber life cycle; cDNA-AFLP; Promoters; cis-Acting elements
3. Analysis of phytate in raw and cooked potatoes/Brian Q. Phillippy, Mengshi Lin, Barbara Rasco
Journal of Food Composition and Analysis, Volume 17, Issue 2, April 2004, p. 217-226, ISSN 0889-1575
Keywords: Phytate; Inositol hexakisphosphate; Potatoes; *Solanum tuberosum*
4. Analysis of temperature distribution in potato tissue during blanching and its effect on the absolute residual pectin methylesterase activity/Gerardo Gonzalez-Martinez ...[et al.]
Journal of Food Engineering, Volume 65, Issue 3, December 2004, P. 433-441, ISSN 0260-8774
Keywords: Potato; Blanching; Absolute PME activity; Thermal activation; Temperature distribution; Thermal deactivation rate; Finite-element analysis; Thermal activity coefficient

5. Annealing of starches from potato tubers grown at different environmental temperatures: Effect of heating duration/Natalia K. ...[et al.]
Carbohydrate Polymers, Volume 56, Issue 3, 8 July 2004, p. 367-370, ISSN 0144-8617,
Keywords: Potato starches; Annealing duration; Thermodynamic melting parameters; Differential scanning calorimetric analysis
6. Biochemical and ultrastructural changes in leaves of potato plants grown under supplementary UV-B radiation/Isabel Santos ...[et al]
Plant Science, Volume 167, Issue 4, October 2004, p. 925-935, ISSN 0168-9452
Keywords: Catalase; Flavonoids; Peroxidase; Potato; Ultrastructure; UV-B radiation
7. Catecholamine biosynthesis route in potato is affected by stress/Anna Swiedrych ...[et al.]
Plant Physiology and Biochemistry, Volume 42, Issues 7-8, July-August 2004 p. 593-600, ISSN 0981-9428
Keywords: Catecholamines; L-Dopa decarboxylase; Tyrosine decarboxylase; Tyrosine hydroxylase; Solanum tuberosum; Stress response; Transgenic potato
8. Catecholamine potentiates starch mobilization in transgenic potato tubers/Anna Swiedrych, Jerzy Stachowiak, Jan Szopa
Plant Physiology and Biochemistry, Volume 42, Issue 2, February 2004, p. 103-109, ISSN 0981-9428
Keywords: Catecholamines; Transgenic potato plant; Tyrosine decarboxylase; Solanum tuberosum

9. Cloning of potato SBgLR gene and its intron splicing in transgenic maize/Zhihong Lang, ...[et al.]
Plant Science, Volume 166, Issue 5, May 2004, p. 1227-1233,
ISSN 0168-9452
Keywords: Potato (*Solanum tuberosum* L.); SBgLR gene;
Intron; Splicing
10. Color and textural parameters of pressurized and heat-treated surimi gels as affected by potato starch and egg white/Gipsy Tabilo-Munizaga, Gustavo V. Barbosa-Canovas
Food Research International, Volume 37, Issue 8, 2004, p. 767-775, ISSN 0963-9969
Keywords: Surimi; Color; Hardness; Whiteness; Pressure;
Gel strength
11. Decision-making in soil conservation: application of a behavioral model to potato farmers in Sri Lanka/ Prabodh Illukpitiya, Chennat Gopalakrishnan
Land Use Policy, Volume 21, Issue 4, October 2004, p. 321-331,
Keywords: Sri Lanka; Uma Oya watershed; Erosion; Soil conservation; Willingness to invest (pay); Potato farmers
12. Decreasing of oil absorption in potato strips during deep fat frying/Suzana Rimac-Brncic ...[et al.]
Journal of Food Engineering, Volume 64, Issue 2, September 2004, P. 237-241, ISSN 0260-8774
Keywords: Low-fat food; Carboxymethyl cellulose coating;
Deep fat frying; Potato strips; Oil absorption
13. Desiccation of potato cultivars with endothal and adjuvants/Jerry A. Ivany
Crop Protection, Volume 23, Issue 4, April 2004, p.353-359,
ISSN 0261-2194,
Keywords: Endothal; Potato; Daughter tuber sprouting;
Varieties

14. Development of a Predictive Tissue Discolouration Model based on Electronic Potato Impacts/T. Van Canneyt...[et al.]
Biosystems Engineering, Volume 88, Issue 1, May 2004, p. 81-93, ISSN 1537-5110,
Keywords: *Solanum tuberosum*; Bioengineering; Tissue culture; Analytical methods
15. Differential characteristics of salicylic acid-mediated signaling in potato/D.A. Navarre, D. Mayo
Physiological and Molecular Plant Pathology, Volume 64, Issue 4, April 2004, p. 179-188, ISSN 0885-5765
Keywords: Defense signaling; Disease resistance
16. Differential susceptibility of *Amblyomma maculatum* and *Amblyomma americanum* (Acari:Ixodidae) to the entomopathogenic fungi *Beauveria bassiana* and *Metarrhizium anisopliae*/Brett H. Kirkland
Biological Control, Volume 31, Issue 3, November 2004, p. 414-421, ISSN 1049-9644
Keywords: Tick biocontrol; Fungal conidia; Blastospores; Cuticular lipids; Spore germination; Inoculum conditions
17. Differently sized granules from acetylated potato and sweet potato starches differ in the acetyl substitution pattern of their amylose populations/Zhenghong Chen ...[et al.]
Carbohydrate Polymers, Volume 56, Issue 2, 4 June 2004, p. 219-226, ISSN 0144-8617
Keywords: Acetyl group; Degree of substitution; Amylose; Granule size

18. Dihydrazone of dialdehyde starch and its metal complexes/
Andrzej Para ...[et al.]
Carbohydrate Polymers, Volume 56, Issue 2, 4 June 2004, p. 187-
193, ISSN 0144-8617
Keywords: Dialdehyde starch; Dialdehyde starch
dihydrazone; Metal complexes
19. Distribution of serine proteinase inhibitors in seeds of the
Asteridae/Alexander V. Konarev...[et al]
Phytochemistry, Volume 65, Issue 22, November 2004, p. 3003-
3020, ISSN 0031-9422
Keywords: Anthriscus sylvestris; Apiaceae; Veronica
hederifolia; Scrophulariaceae; Asteridae;
Trypsin inhibitor; Subtilisin inhibitor;
Chymotrypsin inhibitor; Seeds
20. Dithiocarbamates residues in Brazilian food and the potential risk
for consumers/E.D. Caldas...[et al.]
Food and Chemical Toxicology, Volume 42, Issue 11, November
2004, p. 1877-1883, ISSN 0278-6915
Keywords: Dithiocarbamate fungicides; Food analysis;
Chronic dietary risk assessment
21. Effect of harvest dates on the starch properties of various potato
cultivars/ Takahiro Noda ...[et al.]
Food Chemistry, Volume 86, Issue 1, June 2004, p. 119-125,
ISSN 0308-8146,
Keywords: Potato starch; Phosphorus content; Pasting
properties; Differential scanning calorimetry;
22. Effect of moderate thermal and pulsed electric field treatments on
textural properties of carrots, potatoes and apples /Nikolai I.
Innovative Food Science & Emerging Technologies, Volume 5,
Issue 1, March 2004, p. 9-16, ISSN 1466-8564
Keywords: Heating; Plant tissue; Pulsed electric fields;
Texture

23. Effect of salt compounds on mycelial growth, sporulation and spore germination of various potato pathogens/A.A.S. Mills, H.W. Platt, R.A.R. Hurta
Postharvest Biology and Technology, Volume 34, Issue 3, December 2004, p. 341-350, ISSN 0925-5214
Keywords: Salt compounds; Post-harvest potato diseases; Alternative controls
24. Effect of sealed and vented gaseous microenvironments on the hyperhydricity of potato shoots *in vitro*/S. W. Park...[et.al.]
Scientia Horticulturae, Volume 99, Issue 2, 6 February 2004, p. 199-205, ISSN 0304-4238
Keywords: Ethylene scrubber; In vitro culture; KMnO4 Solanum tuberosum; Hyperhydricity
25. Effect of some chemical and herbal compounds on growth of *Aspergillus parasiticus* and aflatoxin production/ N. K. S. Gowda, V. Malathi, R. U. Suganthi
Animal Feed Science and Technology, Volume 116, Issues 3-4, 15 October 2004, p. 281-291
Keywords: Anti fungal; Aflatoxin; Chemical; Herbal; Aspergillus
26. Effect of storage conditions (temperature, light, time) and variety on the glycoalkaloid content of potato tubers and sprouts/M. Sengul, F. Keles, M. S. Keles,
Food Control, Volume 15, Issue 4, June 2004, p. 281-286, ISSN 0956-7135
Keywords: Potato; Glycoalkaloid; HPLC
27. Effects of saline irrigation water and heat waves on potato production in an arid environment/Amnon Bustan ...[et al.]
Field Crops Research, Volume 90, Issues 2-3, 8 December 2004, p. 275-285, ISSN 0378-4290,
Keywords: Leaf area index; Salt stress; Sink; Solanum tuberosum L.; Vapor pressure deficit

28. Egg loaf and changes in its quality during storage/K. P. Yashoda, R. Jagannatha Rao ...[et.al.]
Food Control, Volume 15, Issue 7, October 2004, p. 523-526,
Keywords: Egg loaf; Rancidity; Microbial quality; Sensory quality
29. Enthalpy-entropy compensation for browning of potato strips during deep-fat frying/Pedro C. Moyano, Rommy N. Zuniga
Journal of Food Engineering, Volume 63, Issue 1, June 2004, p. 57-62, ISSN 0260-8774
Keywords: Enthalpy; Entropy; Browning; Frying; Potato
30. Expansion ratio and color improvement of dried vegetables texturized by a new process 'Controlled Sudden Decompression to the vacuum': Application to potatoes, carrots and onions /N. Louka, K. Allaf
Journal of Food Engineering, Volume 65, Issue 2, November 2004, p. 233-243, ISSN 0260-8774
Keywords: Decompression; Expansion; Vacuum; Vegetables; Drying
31. Expression of [beta]-1,3-glucanase in flax causes increased resistance to fungi/Magdalena Wrobel-Kwiatkowska ... [et al.]
Physiological and Molecular Plant Pathology, Volume 65, Issue 5, November 2004, p 245-256, ISSN 0885-5765
Keywords: Potato [beta]-1,3-glucanase; Pathogen resistance; Metabolic profiling; Linum usitatissimum
32. Factors influencing the properties of hydroxypropylated potato starches/Lovedeep Kaur, Narinder Singh, Jaspreet Singh
Carbohydrate Polymers, Volume 55, Issue 2, 22 January 2004, p. 211-223, ISSN 0144-8617
Keywords: Hydroxypropylation; Potato starch; Freeze thaw; Morphological; Thermal; Rheological; Retrogradation

33. Fracture mechanics analysis of the texture of fried potato crust/Kelly A. Ross, Martin G. Scanlon
Journal of Food Engineering, Volume 62, Issue 4, May 2004, p. 417-423, ISSN 0260-8774,
Keywords: Mechanical properties; French fries; Potato processing; Elastic modulus; Texture; Frying; Fracture
34. Free radical scavenging activity of an aqueous extract of potato peel/Nandita Singh, Rajini P. S.
Food Chemistry, Volume 85, Issue 4, May 2004, p. 611-616, ISSN 0308-8146
Keywords: Potato peel extract; Antioxidant activity; Lipid peroxidation; Radical scavenging effect; Iron chelation
35. Freeze-dried diet to test pathogens of Colorado potato beetle/Phyllis A. W. Martin
Biological Control, Volume 29, Issue 1, January 2004, p. 109-114, ISSN 1049-9644
Keywords: Entomopathogens; Microbial control; Leptinotarsa decemlineata; *Photorhabdus luminescens*; *Serratia marcescens*; *Bacillus thuringiensis*; *Chromobacterium* sp.; Bioassay
36. Fungicide application and host-resistance for potato late blight management: benefits assessment from on-farm studies in S.W. Uganda/S. Namanda ...[et al]
Crop Protection, Volume 23, Issue 11, November 2004, p. 1075-1083, ISSN 0261-2194
Keywords: Mancozeb Dithane M45; Fungicide application; Host resistance; IPM; Late blight; Economic returns; Uganda

37. Gel formation in mixtures of amylose and high amylopectin potato starch/Fernando E. Ortega-Ojeda, Helena Larsson
Carbohydrate Polymers, Volume 57, Issue 1, 12 August 2004, p. 55-66, ISSN 0144-8617
Keywords: High amylopectin potato starch; Amylose; Gel
38. Gel formation in mixtures of high amylopectin potato starch and potato starch/Fernando E. Ortega-Ojeda, Helena Larsson, Ann-Charlotte Eliasson
Carbohydrate Polymers, Volume 56, Issue 4, 15 July 2004, P. 505-514, ISSN 0144-8617
Keywords: Amylopectin; Polysaccharide; Starch; High amylopectin potato starch; Potato starch
39. Genotypic differences in the heat-shock response and thermotolerance in four potato cultivars/Yeh-Jin Ahn, Kristine Claussen, J. Lynn Zimmerman
Plant Science, Volume 166, Issue 4, April 2004, p. 901-911, ISSN 0168-9452
Keywords: Heat shock protein; Potato; Small heat shock protein; *Solanum tuberosum*; Thermotolerance
40. GIS web-based tool for the management of the PGI potato of Galicia/Ines Sante ...[et al.]
Computers and Electronics in Agriculture, Volume 44, Issue 2, August 2004, p. 161-171, ISSN 0168-1699
Keywords: GIS; Web; Management tool; Geographical indication; Potato crops

41. Heterologous pectate lyase isoenzymes are not different in their effects on soft rot resistance in transgenic potatoes/ Christina B. Wegener, Ole Olsen
Physiological and Molecular Plant Pathology, Volume 65, Issue 2, August 2004, p. 59-66, ISSN 0885-5765
Keywords: *Erwinia carotovora*; Peroxidase; Phenylalanine ammonia lyase; Plant defence; Polyphenol oxidase; *Solanum tuberosum* L.; Transgenic plants
42. High-level expression of apple PGIP1 is not sufficient to protect transgenic potato against *Verticillium dahliae*/I. Gazendam, D. Oelofse, D.K. Berger
Physiological and Molecular Plant Pathology, Volume 65, Issue 3, September 2004, p. 145-155, ISSN 0885-5765
Keywords: *Verticillium dahliae*; *Solanum tuberosum*; Polygalacturonase; PG; Polygalacturonase-inhibiting protein; PGIP; Apple PGIP1; Transgenic potato; Glasshouse trial
43. Identification of anthocyanins of pinta boca (*Solanum stenotomum*) tubers/Cristina Alcalde-Eon ...[et al.]
Food Chemistry, Volume 86, Issue 3, July 2004, p. 441-448, ISSN 0308-8146
Keywords: Coloured potato tubers; Anthocyanins; LC-MS; Pinta boca; *Solanum stenotomum*
44. Identity of the mtDNA haplotype(s) of Phytophthora infestans in historical specimens from the Irish Potato Famine /Kimberley Jane May, Jean Beagle Ristaino
Mycological Research, Volume 108, Issue 5, May 2004, p. 471-479, ISSN 0953-7562
Keywords: Farm association; Potato; Specimens; Phytophthora; Infectans; mtDNA haplotypes

45. Impact of tropospheric O₃ on leaf number duration and tuber yield of the potato (*Solanum tuberosum* L.) cultivars Bintje and Kardal/ K. Piikki, G. Sellden, H. Pleijel
Agriculture, Ecosystems & Environment, Volume 104, Issue 3, December 2004, p. 483-492
Keywords: **Cultivar; Earliness; Open top chamber; OTC; Ozone; Potato; Solanum tuberosum; Yield**
46. *In vitro* characterization of manganese toxicity in relation to phosphorus nutrition in potato (*Solanum tuberosum* L.) /D. Sarkar
Plant Science, Volume 167, Issue 5, November 2004, p. 977-986, ISSN 0168-9452
Keywords: **Manganese toxicity; Microculture; Phosphorous nutrition; Potato; Stem streak necrosis; Tissue culture**
47. Influence of acetic anhydride on physicochemical, morphological and thermal properties of corn and potato starch/Narpinder Singh, Deepika Chawla, Jaspreet Singh
Food Chemistry, Volume 86, Issue 4, August 2004, p. 601-608, ISSN 0308-8146
Keywords: **Acetylation; Corn starch; Potato starch; Physicochemical; Morphological; Thermal; Syneresis**
48. Insect cellular and chemical limitations to pathogen development: the Colorado potato beetle, the nematode *Heterorhabditis marelatus*, and its symbiotic bacteria/ Christine A. Armer ...[et.al.]
Journal of Invertebrate Pathology, Volume 87, Issues 2-3, October-November 2004, p.114-122
Keywords: **Leptinotarsa decemlineata; Chrysomelidae; Chrysomelid; Photorhabdus luminescens; Heterorhabditis marelatus; Heterorhabditidae; Entomopathogenic nematodes; Insect parasitic nematodes; Hemolymph; Leptinotarsin; Biological**

49. Involvement of endogenous gibberellins in potato tuber dormancy and early sprout growth: a critical assessment /Jeffrey C. Suttle
Journal of Plant Physiology, Volume 161, Issue 2, 2004, p. 157-164, ISSN 0176-1617
Keywords: **Dormancy; Gibberellin; Potato (Solanum Tuberosum)**
50. Involvement of ethylene in wound-induced suberization of potato tuber (*Solanum tuberosum* L.): a critical assessment/Edward C. Lulai, Jeffrey C. Suttle
Postharvest Biology and Technology, Volume 34, Issue 1, October 2004, p. 105-112, ISSN 0925-5214
Keywords: **Aminoethoxyvinylglycine (AVG); Ethylene; 1-methylcyclopropene (1-MCP); Norbornadiene (NBD); Suberin; Wound-heal**
51. Isolation and characterization of thioredoxin h cDNA from sweet potato (*Ipomoea batatas* [L.] Lam Tainong 57') storage roots /Dong-Jiann Huang
Plant Science, Volume 166, Issue 2, February 2004, p. 515-523, ISSN 0168-9452
Keywords: **Sweet potato; Thioredoxin h; cDNA sequence; Gene expression; Recombinant protein**
52. Larvicidal Cry proteins from *Bacillus thuringiensis* are released in root exudates of transgenic B. *thuringiensis* corn, potato, and rice but not of B. *thuringiensis* canola, cotton, and tobacco/Deepak Saxena ...[et al.]
Plant Physiology and Biochemistry, Volume 42, Issue 5, May 2004, p. 383-387, ISSN 0981-9428
Keywords: **Bacillus thuringiensis; Hydroponics; Insecticidal proteins; Root exudates; Soil; Surface-active particles (e.g. clay minerals, humic substances); Transgenic Bt plants**

53. Light and temperature modulated expolinear growth model for potato (*Solanum tuberosum* L.)/F. -M. Yuan, William L. Bland
Agricultural and Forest Meteorology, Volume 121, Issues 3-4, 20 February 2004, p. 141-151, ISSN 0168-1923
Keywords: **Expolinear growth equations; PAR; Air temperature; Solanum tuberosum L.**
54. Manufacturing of par-fried French-fries: Part 1: Production yield as a function of number of tubers per kilog/Derk Somsen, Anthony Capelle, Johannes Tramper
Journal of Food Engineering, Volume 61, Issue 2, February 2004, p. 191-198, ISSN 0260-8774
Keywords: **Ellipsoid surface equation; Numerical shell method; Peeling; Potato size; Production yield analysis; Specific surface; Volume**
55. Manufacturing of par-fried French-fries: Part 2: Modelling yield efficiency of peeling/Derk Somsen ...[et al.]
Journal of Food Engineering, Volume 61, Issue 2, February 2004, p. 199-207, ISSN 0260-8774
Keywords: **Heat ring; Potato; Peel removal effect; Production yield analysis; Steam peeling; Yield index**
56. Modulation of the cellulose content of tuber cell walls by antisense expression of different potato (*Solanum tuberosum* L.) CesA clones/Ronald J. F. J. Oomen ...[et al.]
Phytochemistry, Volume 65, Issue 5, March 2004, p. 535-546, ISSN 0031-9422
Keywords: **Antisense; Cellulose; Cell wall biosynthesis; Gene family; Potato; Specific knockout**

57. Molecular basis of Colorado potato beetle adaptation to potato plant defence at the level of digestive cysteine proteinases, /Kristina Gruden...[et al.]
Insect Biochemistry and Molecular Biology, Volume 34, Issue 4, April 2004, p. 365-375, ISSN 0965-1748
Keywords: Insect adaptation; Molecular modelling; Digestive cysteine proteinase; Glycyl endopeptidase; *Leptinotarsa decemlineata*
58. Molecular cloning and characterization of cDNAs encoding cinnamoyl CoA reductase (CCR) from barley (*Hordeum vulgare*) and potato (*Solanum tuberosum*)/Knud Larsen
Journal of Plant Physiology, Volume 161, Issue 1, 2004, p. 105-112, ISSN 0176-1617
Keywords: Barley; cDNA; Cinnamoyl CoA reductase; lignin
59. Molecular cloning and sequence variation of UDP-glucose pyrophosphorylase cDNAs from potatoes sensitive and resistant to cold sweetening/Joseph R. Sowokinos, Vladimir Vigdorovich, Mitchell Abrahamsen
Journal of Plant Physiology, Volume 161, Issue 8, 19 August 2004, p. 947-955, ISSN 0176-1617
Keywords: Alleles; cDNA; Cold sweetening; Enzymes; Potato; Processing; Sequences
60. Negative dietary effects of Colorado potato beetle eggs for the larvae of native and introduced ladybird beetles /William E. Snyder, Garrett M. Clevenger
Biological Control, Volume 31, Issue 3, November 2004, p. 353-361, ISSN 1049-9644
Keywords: *Hippodamia convergens*; *Coccinella transversoguttata*; *Coccinella septempunctata*; *Harmonia*

61. Neonicotinoid seed treatments for managing potato leafhopper infestations in snap bean /Brian A. Nault ...[et al.]
Crop Protection, Volume 23, Issue 2, February 2004, p. 147-154,
ISSN 0261-2194
Keywords: ***Empoasca fabae; Thiamethoxam; Imidacloprid; Management; Phaseolus vulgaris***
62. Oligopeptide elicitor Pep-13 induces salicylic acid-dependent and -independent defense reactions in potato/Vincentius A. Halim, ...[et.al.]
Physiological and Molecular Plant Pathology, Volume 64, Issue 6, June 2004, p. 311-318, ISSN 0885-5765
Keywords: ***Host pathogen interaction; Pathogen associated molecular pattern; Phytophthora infestans; Programmed cell death; Solanum tuberosum***
63. On the nature of categories of chains in amylopectin and their connection to the super helix model/ Eric Bertoft
Carbohydrate Polymers, Volume 57, Issue 2, 30 August 2004, p. 211-224
Keywords: ***Waxy maize starch; Potato amylopectin starch; Amylopectin structure***
64. One potato, two potato: haplotype association mapping in autotetraploids/Ivan Simko
Plant Science, Volume 9, Issue 9, September 2004, p. 441-448,
ISSN 1360-1385
Keywords: ***Solanum tuberosum; Plant propagation; Genetic mapping; Haplotype; Autotetraploids***
65. Optimisation of high temperature puffing of potato cubes using response surface methodology/A. I. Varnalis...[et al.]
Journal of Food Engineering, Volume 61, Issue 2, February 2004, p.153-163, ISSN 0260-8774
Keywords: ***Potatoes; Puffing; RSM; Dehydration; Colour; High temperature fluidised bed; Optimisation***

66. Optimization of a biological process for treating potato chips industry wastewater using a mixed culture of *Aspergillus foetidus* and *Aspergillus niger*/B. K. Mishra, Anju Arora, Lata
Bioresource Technology, Volume 94, Issue 1, August 2004, p. 9-12, ISSN 0960-8524
Keywords: *Aspergillus spp.*; **Biological treatment;** **COD;** **Fungal biomass;** **Potato wastewater**
67. Over-expression of potato virus X TGBp1 movement protein in transgenic tobacco plants causes developmental and metabolic alterations/Ken Kobayashi, Catherine ...[et al.]
Plant Physiology and Biochemistry, Volume 42, Issue 9, September 2004, p. 731-738
Keywords: **Chloroplast;** **Movement protein;** **Physiology;** **Potexvirus;** **Tobacco**
68. Overexpression of two different potato UDP-Glc 4-epimerases can increase the galactose content of potato tuber cell walls/Ronald J. F. J. Oomen ...[et al.]
Plant Science, Volume 166, Issue 4, April 2004, p. 1097-1104, ISSN 0168-9452
Keywords: **UDP-Glc 4-epimerase;** **Cell wall;** **Transformation**
69. Polyphenol oxidase expression in potato (*Solanum tuberosum*) tubers inhibited to sprouting by treatment with iodine atmosphere/ Francesco Eolini ...[et al.]
Phytochemistry, Volume 65, Issue 15, August 2004, p. 2181-2187, ISSN 0031-9422
Keywords: ***Solanum tuberosum*;** **Solanaceae;** **Potato tuber;** **Enzyme expression;** **Polyphenol oxidase;** **Inhibition of sprouting;** **Iodine**

70. Potato production model based on principle of maximum plant productivity/J. Kadaja, H. Tooming
Agricultural and Forest Meteorology, Volume 127, Issues 1-2, 5 December 2004, p. 17-33
Keywords: Crop simulation models; Maximum plant productivity; Potato; Solar radiation; Yield; Eastern Europe
71. Predation of green peach aphids by generalist predators in the presence of alternative, Colorado potato beetle egg prey/Amanda M. Koss...[et al.]
Biological Control, Volume 31, Issue 2, October 2004, p. 237-244, ISSN 1049-9644
Keywords: Geocoris; Nabis; Polyphagy; Alternative prey; Apparent competition
72. Predictive study for the extent of deterioration of potato chips during storage/Dimitra P. Houhoula, Vassiliki Oreopoulou,,
Journal of Food Engineering, Volume 65, Issue 3, December 2004, p. 427-432, ISSN 0260-8774,
Keywords: Potato chips deterioration; Storage stability and oxidation
73. Purification of an isoform of patatin with antimicrobial activity against *Phytophthora infestans* /Neelam Sharma ...[et al.]
Plant Physiology and Biochemistry, Volume 42, Issues 7-8, July-August 2004, p. 647-655, ISSN 0981-9428
Keywords: Antifungal protein; Late blight; Patatin; Phytophthora infestans; Potato

74. Quality and structural changes in starchy foods during microwave and convective drying/M.A.M.Khraisheh, W.A.M.McMinn, T.R. A. Magee
Food Research International, Volume 37, Issue 5, Starch Functionality, June 2004, p. 497-503, ISSN 0963-9969
Keywords: Convective drying; Microwave drying; Potato cylinder; Rehydration; Shrinkage; Vitamin C
75. Race nonspecific resistance for potato late blight /Richard C. Staples
Trends in Plant Science, Volume 9, Issue 1, January 2004, p. 5-6, ISSN 1360-1385,
Keywords: Solanum tuberosum; Plant diseases; Resistance of plants; Potato lateblight
76. Reduction of acrylamide formation in potato slices during frying /Franco Pedreschi, Karl Kaack, Kit Granby
Food Science and Technology, Volume 37, Issue 6, September 2004, p. 679-685, ISSN 0023-6438
Keywords: Potato slices; Frying; Acrylamide; Reducing sugars; Glucose; Asparagine
77. Relationship between predator density, community composition, and field predation of Colorado potato beetle eggs/Gary C. Chang, William E. Snyder
Biological Control, Volume 31, Issue 3, November 2004, p. 453-461, ISSN 1049-9644
Keywords: Predator guild; Organic agriculture; Generalist predators; Potato
78. Ruminal digestion of leguminous forage, potatoes and fodder beets in batch culture: II. Microbial protein production/Torsten Eriksson ...[et al.]
Animal Feed Science and Technology, Volume 111, Issues 1-4, 12 January 2004, p. 89-109, ISSN 0377-8401
Keywords: Fodder beets; Potatoes; In vitro technique; Rumen; Microbial protein

79. Ruminal digestion of leguminous forage, potatoes and fodder beets in batch culture: I. Fermentation pattern/Torsten Eriksson, Michael Murphy
Animal Feed Science and Technology, Volume 111, Issues 1-4, 12 January 2004, p. 73-88, ISSN 0377-8401
Keywords: Fodder beets; Potatoes; In vitro technique; Rumen; Fermentation
80. Sorption isotherms and isosteric heat of sorption for grapes, apricots, apples and potatoes/Figen Kaymak-Ertekin, Atil Gedik
Lebensmittel Wissenschaft und Technologie, Volume 37, Issue 4, June 2004, p. 429-438, ISSN 0023-6438
Keywords: Sorption isotherm; Mathematical model; Isosteric heat of sorption; Foods
81. Spread of potato virus YNTN in potato cultivars (*Solanum tuberosum* L.) with different levels of sensitivity/Natasa Mehle, ...[et al.]
Physiological and Molecular Plant Pathology, Volume 64, Issue 6, June 2004, p. 293-300, ISSN 0885-5765
Keywords: Solanum tuberosum L.; Virus spread; PVYNTN; DAS-ELISA; Tissue printing; Immuno-serological electron microscopy; Real-time PCR
82. Starch transformation and structure development in production and reconstitution of potato flakes /M. Lamberti ...[et al.]
Lebensmittel-Wissenschaft und-Technologie, Volume 37, Issue 4, June 2004, p. 417-427, ISSN 0023-6438
Keywords: Potato flakes; Starch; Microstructure; Texture; Mashed potatoes

83. Stimulating disease suppression in soils: sulphate fertilizers can increase biodiversity and antibiosis ability of root zone bacteria against *Streptomyces scabies*/A. V. Sturz ...[et al.]
Soil Biology and Biochemistry, Volume 36, Issue 2, February 2004, p. 343-352, ISSN 0038-0717
Keywords: **Biocontrol; Diversity; Potato common scab; Soil health; Streptomyces, Rhizobacteria; Volatile gases**
84. Suppression of post-transcriptional gene silencing by callus induction and virus infection reveals the existence of aberrant RNAs /Regis L. Correa ...[et al]
Plant Science, Volume 167, Issue 1, July 2004, p. 159-164, ISSN 0168-9452
Keywords: **Post-transcriptional gene silencing; RNAi; Andean potato mottle virus; Potato virus Y; Aberrant RNA; Silencing suppression**
85. Ultrastructure of the infection process of potato tuber by *Helminthosporium solani*, causal agent of potato silver scurf /Carole Martinez, Danny Rioux, Russell J. Tweddell
Mycological Research, Volume 108, Issue 7, July 2004, p. 828-836, ISSN 0953-7562
Keywords: **Solanum tuberosum; Plant diseases; Helminthosporium solani; Infection diseases; Infectivity; Potato silver scurf**

86. US-1 and US-8 genotypes of *Phytophthora infestans* differentially affect local, proximal and distal gene expression of phenylalanine ammonia-lyase and 3-hydroxy, 3-methylglutaryl CoA reductase in potato leaves/ Xiben Wang ...[et.al.]
Physiological and Molecular Plant Pathology, Volume 65, Issue 3, September 2004, p. 157-167,
Keywords: *Solanum tuberosum* L. (potato); *Phytophthora infestans* (Mont.) de Bary; Phenylalanine ammonia-lyase (PAL); 3-Hydroxy 3-methylglutaryl CoA reductase (HMGR); Differential induction; Local, proximal and distal expression; Northern blot
87. Use of an nitron region of a chloroplast tRNA gene (trnL) as a target for PCR identification of specific food crops including sources of potential allergens/Delano James, Anna-mary Schmidt
Food Research International, Volume 37, Issue 4, May 2004, p.395-402, ISSN 0963-9969,
Keywords: Peanut; Wheat; Soybean; Canola; Corn; Potato; Rice; Food composition; Allergens; Chloroplast DNA; trnL intron; Polymerase chain reaction
88. Use of carboxymethylcellulose to recover potato proteins and control their functional properties/M. Vikelouda, V.Kiosseoglou, *Food Hydrocolloids*, Volume 18, Issue 1, January 2004, p. 21-27, ISSN 0268-005X
Keywords: Carboxymethylcellulose; Potato protein; Emulsion properties; Foaming behavior
89. Use of seasonal forecasts of sea surface temperature anomalies for potato fertilization management. Theoretical study considering EPIC model results at Valdivia, Chile/Francisco J. Meza, Daniel
Agricultural Systems, Volume 82, Issue 2, November 2004, p. 161-180, ISSN 0308-521X
Keywords: Sea surface temperature forecasts; Expected value of information; Potato fertilization management

90. Use of unusual storage temperatures to improve the amino acid profile of potatoes for novel flavoring applications/ Stephen J ...[et al.]
Food Science and Technology, Volume 37, Issue 6, September 2004, p.619-626
Keywords: Potato juice; Free amino acids; Storage studies; Flavor development; GC/MS analysis
91. Utilization of potato peels extract as a natural antioxidant in soy bean oil/Zia-ur- Rehman, Farzana Habib, W. H. Shah
Food Chemistry, Volume 85, Issue 2, April 2004, p. 215-220, ISSN 0308-8146
Keywords: Potato peels extract; Soy bean oil; Antioxidant
92. Virus survival of RNA silencing without deploying protein-mediated suppression in *Nicotiana benthamiana*/Rene van Wezel, Yiguo Hong
FEBS Letters, Volume 562, Issues 1-3, 26 March 2004, p. 65-70, ISSN 0014-5793
Keywords: Potato virus X; RNA silencing; Suppressor; Survival
93. Water sorption isotherms of starch powders. Part 2: Thermodynamic characteristics/A. H. Al-Muhtaseb, W. A. M. McMinn, T. R. A. Magee
Journal of Food Engineering, Volume 62, Issue 2, April 2004, p. 135-142, ISSN 0260-8774
Keywords: Thermodynamics; Isosteric heat of sorption; Integral enthalpy; Differential entropy; Integral entropy; Spreading pressure; Potato starch

94. Water sorption isotherms of starch powders: Part 1: mathematical description of experimental data/A. H. Al-Muhtaseb, W. A. M. McMinn, T. R. A. Magee
Journal of Food Engineering, Volume 61, Issue 3, February 2004, p. 297-307, ISSN 0260-8774
Keywords: Sorption isotherm; Potato starch; Highly amylopectin starch; Highly amylose starch; Mathematical models; Hysteresis
95. Wound-inducible promoter from poplar is responsive to fungal infection in transgenic potato/Dmytro P. ...[et al.]
Plant Science, Volume 167, Issue 4, October 2004, p. 715-724, ISSN 0168-9452
Keywords: Win3.12T promoter; Inducible response; Potato; Poplar; *Fusarium solani*; One step regeneration method

BIBLIOGRAFI 2005

SCIENCEDIRECT

96. ABA regulated stomatal control and photosynthetic water use efficiency of potato (*Solanum tuberosum* L.) during progressive soil drying /Fulai Liu, ... [et.al.]
Plant Science, Volume 168, Issue 3, March 2005, p. 831-836, ISSN 0168-9452
Keywords: **Abscisic acid; Drought stress; Leaf gas exchange; Photosynthetic water use efficiency; Plant water relation; Solanum tuberosum L.**
97. Alternative prey disrupt biocontrol by a guild of generalist predators /A.M. Koss, W.E. Snyder
Biological Control, Volume 32, Issue 2, February 2005, p. 243-251, ISSN 1049-9644
Keywords: **Predator assemblage; Intraguild predation; Myzus persicae; Leptinotarsa decemlineata; Solanum tuberosum**
98. Anthocyanins from pigmented potato (*Solanum tuberosum* L.) varieties/S. Eichhorn, P. Winterhalter
Food Research International, Volume 38, Issues 8-9, Third International Congress on Pigments in Food, October-November 2005, p. 943-948, ISSN 0963-9969,
Keywords: **Potato; Solanum tuberosum L.; Acylated anthocyanins; Anthocyanidin; Countercurrent chromatography; HPLC-MS**
99. Assessing temporal stability and spatial variability of soil water patterns with implications for precision water management/G.C. Starr,
Agricultural Water Management, Volume 72, Issue 3, 2 April 2005, p. 223-243, ISSN 0378-3774
Keywords: **Soil; Water; Potato; Irrigation; Variability; Precision agriculture**

100. Biological response of rat fed diets with high tuber content of conventionally bred and transgenic potato resistant to necrotic strain of potato virus (PVYN) Part I. Chemical composition of tubers and nutritional value of diets/Z. Zdunczyk ...[et al.]
Food Control, Volume 16, Issue 8, October 2005, p.761-766 ISSN 0956-7135

Keywords: Potato; Genetic modification; Chemical composition; Nutritional value; Rat

101. Biological response of rat fed diets with high tuber content of conventionally bred and transgenic potato resistant to necrotic strain of potato virus (PVYN). Part II. Caecal metabolism, serum enzymes and indices of non-specific defence of rats/Z. Zdunczyk ...[et al.]

Food Control, Volume 16, Issue 8, 7th October 2005, p. 767-772, ISSN 0956-7135

Keywords: Potato; Genetic modification; Caecal development; Metabolism; Rat

102. Changes of polysaccharide content and texture of potato during French fries production/Grazyna Golubowska
Food Chemistry, Volume 90, Issue 4, May 2005, p. 847-851 ISSN 0308-8146

Keywords: Potato tuber; French fries; French fries processing line; Texture; Non-starch polysaccharide; Lignin

103. Characterising the washing processes of vegetables and potatoes /E. Mulugeta, M. Geyer

Biosystems Engineering, Volume 91, Issue 4, August 2005, P 441-453, ISSN 1537-5110

Keywords: Potatoes; Vegetables; Foods; Processing; Washing; Quality

104. Characterization of cross-linked hydroxycinnamic acid amides isolated from potato common scab lesions/Russell R. King, Larry A. Calhoun
Phytochemistry, Volume 66, Issue 20, October 2005, p. 2468-2473, ISSN 0031-9422
Keywords: **Hydroxycinnamic acid amides; Solanum tuberosum; Common scab; Streptomyces scabies; Grossamide**
105. Chromatin remodeling in plant cell culture: patterns of DNA methylation and histone H3 and H4 acetylation vary during growth of asynchronous potato cell suspensions/R. David Law, Jeffrey C. Suttle
Plant Physiology and Biochemistry, Volume 43, Issue 6, June 2005, p. 527-534, ISSN 0981-9428
Keywords: **DNA cytosine methylation; Histone acetylation; Solanum tuberosum L. (potato) cell suspension cultures; Trichostatin A; 5-azacytidine**
106. Cloning and characterization of a cytosolic isoform of triosephosphate isomerase developmentally regulated in potato leaves/Sonia Dorion ...[et al.]
Plant Science, Volume 168, Issue 1, January 2005, p. 183-194, ISSN 0168-9452
Keywords: **Triosephosphate isomerase; Potato; Glycolysis; Carbohydrate metabolism; Plant development; Triose phosphate**
107. Color changes and acrylamide formation in fried potato slices /Franco Pedreschi ...[et al.]
Food Research International, Volume 38, Issue 1, January 2005, p. 1-9, ISSN 0963-9969
Keywords: **Potato slices; Frying; Color; Kinetics; Browning; Acrylamide**

108. Conformation and mobility of the arabinan and galactan side-chains of pectin/Marie-Ann Ha...[et al]
Phytochemistry, Volume 66, Issue 15, August 2005, p. 1817-1824, ISSN 0031-9422
Keywords: *Allium cepa; Avena sativa; Citrus sp.; Linum usitatissimum; Lupinus albus; Solanum tuberosum; Cell walls; Pectin; Arabinan; Galactan; Mobility; Solid-state NMR*
109. Different irrigation methods and water stress effects on potato yield and yield component/Sermet Onder...[et al.]
Agricultural Water Management, Volume 73, Issue 1, 20 April 2005, p. 73-86, ISSN 0378-3774
Keywords: *Drip irrigation; Mediterranean region; Potato; Water stress*
110. Differential stress responses to NaCl salt application in early- and late-maturing diploid potato (*Solanum* sp.) clones/Javad Shaterian, ...[et al.]
Environmental and Experimental Botany, Volume 54, Issue 3, November 2005, p. 202-212, ISSN 0098-8472
Keywords: *Diploid potato; Early maturity; Late maturity; Salt stress; Solanum tuberosum*
111. Diffusion model for drying of a heat sensitive solid under multiple heat input modes/Lan Sun, Md. Raisul Islam, J.C. Ho, A.S. *Bioresource Technology*, Volume 96, Issue 14, September 2005, Pages 1551-1560, ISSN 0960-8524
Keywords: *Potato; Convection; Conduction; Radiation; Two dimensions; Diffusion*
112. Effect of different sanitizers on microbial and sensory quality of fresh-cut potato strips stored under modified atmosphere or vacuum packaging/David Beltran ...[et al.]
Postharvest Biology and Technology, Volume 37, Issue 1, July 2005, p. 37-46, ISSN 0925-5214
Keywords: *Browning; Hypochlorite; Ozone; Packaging*

113. Effect of flumetsulam plus clopyralid soil residues on potatoes (*Solanum tuberosum* L.), lima beans (*Phaseolus limensis*, L.) and snap beans (*Phaseolus vulgaris* L.) grown in rotation/Joel Felix ...[et al.]

Crop Protection, Volume 24, Issue 9, September 2005, p. 790-797, ISSN 0261-2194,

Keywords: Flumetsulam; Clopyralid; Herbicide soil residues; Rotational crops; Varieties; Visual injury; Carryover; Yield reduction

114. Effect of glycerol monostearate on the physico-chemical, thermal, rheological and noodle making properties of corn and potato starches/Lovedeep Kaur, Jaspreet Singh, Narpinder Singh

Food Hydrocolloids, Volume 19, Issue 5, September 2005, p. 839-849, ISSN 0268-005X

Keywords: Corn starch; Potato starch; Glycerol monostearate; Morphological; Thermal; Rheological; Noodles; Texture profile analysis

115. Effect of high pressure on the structure of potato starch/W. Blaszcak, S. Valverde, J. Fornal

Carbohydrate Polymers, Volume 59, Issue 3, 18 February 2005, p. 377-383, ISSN 0144-8617

Keywords: Potato starch; High pressure; NMR; F.t-i.r.; Structure

116. Effect of live weight and dietary supplement of raw potato starch on the levels of skatole, androstenone, testosterone and oestrone sulphate in entire male pigs/G. Zamaratskaia ...[et al.]

Livestock Production Science, Volume 93, Issue 3, May 2005, P 235-243, ISSN 0301-6226

Keywords: Entire male pigs; Raw potato starch; Skatole; Testicular steroids

117. Effect of multiple freezing and thawing on the surface and functional properties of granular potato starch/Joanna Szymonska, Krystyna Wodnicka
Food Hydrocolloids, Volume 19, Issue 4, July 2005, p. 753-760, ISSN 0268-005X
Keywords: Potato starch wetting ability; Starch granule density; Starch granule porosity
118. Effect of pre-drying on texture and oil uptake of potato chips/Franco Pedreschi, Pedro Moyano
Food Science and Technology, Volume 38, Issue 6, September 2005, p. 599-604, ISSN 0023-6438
Keywords: Potato slices; Frying; Texture; Oil uptake; Maximum force
119. Effect of pulsed electric field pretreatment on solid-liquid expression from potato tissue/Yongyut Chalermchat, Petr Dejmek
Journal of Food Engineering, Volume 71, Issue 2, November 2005, p. 164-169, ISSN 0260-8774
Keywords: Pulsed electric field; PEF; Solid-liquid expression; Potato; Relative deformation
120. Effects of steroidal glycoalkaloids from potatoes (*Solanum tuberosum*) on in vitro bovine embryo development/S. Wang, ...[et al.]
Animal Reproduction Science, Volume 85, Issues 3-4, February 2005, p. 243-250, ISSN 0378-4320
Keywords: Bovine embryo development; [alpha]-Chaconine; Solanidine-N-oxide; [alpha]-Solanine; *Solanum tuberosum*
121. Effects of straw mulch on soil nitrate dynamics, weeds, yield and soil erosion in organically grown potatoes /Thomas F. Doring
Field Crops Research, Volume 94, Issues 2-3, 15 November 2005, p. 238-249, ISSN 0378-4290
Keywords: Straw mulch; Nitrogen; Organic farming; Potato

122. Efficacy of several potential biocontrol organisms against *Rhizoctonia solani* on potato/Marin Talbot Brewer, Robert P. Larkin,
Crop Protection, Volume 24, Issue 11, November 2005, p. 939-950, ISSN 0261-2194,
Keywords: Biological control; Potato; *Rhizoctonia solani*; Soil microbiology
123. Ensiling of potato pulp with or without bacterial inoculants and its effect on fermentation quality, nutrient composition and nutritive value/A. Okine, M. Hanada, Y. Aibibula, M. Okamoto
Animal Feed Science and Technology, Volume 121, Issues 3-4, 24 June 2005, p. 329-343, ISSN 0377-8401
Keywords: *Lactobacillus rhamnosus*; *Rhizopus oryzae*; Fermentation quality; Potato pulp; Nutritive value
124. Evaluation of potato late blight management utilizing host plant resistance and reduced rates and frequencies of fungicide applications/W.W. Kirk ...[et al.]
Crop Protection, Volume 24, Issue 11, November 2005, p.961-970, ISSN 0261-2194,
Keywords: Potato late blight; Disease control; Reduced fungicides application; Potato advanced breeding lines
125. Expression of a fungal endo-[alpha]-1,5-l-arabinanase during stolon differentiation in potato inhibits tuber formation and results in accumulation of starch and tuber-specific transcripts in the stem /Bernhard Borkhardt ...[et al.]
Plant Science, Volume 169, Issue 5, November 2005, p. 872-881, ISSN 0168-9452
Keywords: Endo arabinanase; Potato; Starch accumulation; Stolon; Tuber; Gene expression

126. Extrusion behaviour of cohesive potato starch pastes: I. Rheological characterisation/A. Cheyne, J. Barnes, D. I. Wilson, *Journal of Food Engineering*, Volume 66, Issue 1, January 2005, p. 1-12, ISSN 0260-8774,

Keywords: Starch; Potato; Extrusion; Rheology; Annulus; Plastic

127. Extrusion behaviour of cohesive potato starch pastes: II. Microstructure-process interactions/A. Cheyne ...[et al.]

Journal of Food Engineering, Volume 66, Issue 1, January 2005, p. 13-24, ISSN 0260-8774

Keywords: Starch; Potato; Extrusion; Microstructure; Hydration; Paste

128. Foreign exploration for natural enemies of the Colorado potato beetle in Central and South America/Robert J. O'Neil, Luis A. Canas, John J. Obryck

Biological Control, Volume 33, Issue 1, April 2005, p. 1-8, ISSN 1049-9644

Keywords: Importation biological control; Classical biological control; Leptinotarsa; Solanum; Colorado potato beetle natural enemies

129. Functional characterisation of potato starch modified by specific in planta alteration of the amylopectin branching and phosphate substitution/Bente Wischmann, ...[et al.]

Food Hydrocolloids, Volume 19, Issue 6, November 2005, p. 1016-1024, ISSN 0268-005X

Keywords: Starch branching enzyme; Glycogen branching enzyme; Potato starch; Genetic modification; Rheology; Starch functionality

130. Generation of homoplasmic plastid transformants of a commercial cultivar of potato (*Solanum tuberosum* L.)/Thanh Thi Nguyen ...[et al.]
Plant Science, Volume 168, Issue 6, June 2005, p. 1495-1500, ISSN 0168-9452
Keywords: Plastid transformation; Chimeric *aadA* gene; gfp gene; Particle bombardment; Transplastomic potato
131. Genes encoding pathogenesis-related proteins PR-2, PR-3 and PR-9, are differentially regulated in potato leaves inoculated with isolates from US-1 and US-8 genotypes of *Phytophthora infestans* (Mont.) de Bary/Xiben Wang ...[et al]
Physiological and Molecular Plant Pathology, Volume 67, Issue 1, July 2005, p. 49-56, ISSN 0885-5765
Keywords: *Solanum tuberosum* L. (Potato); *Phytophthora infestans* (Mont.) de Bary; PR-2; PR-3; PR-9; Pathogenesis related; Differential induction; Local; Proximal and distal expression; Northern blot; Glucanase; Chitinase; Peroxidase
132. Grafting of tomato mutants onto potato rootstocks: An approach to study leaf-derived signaling on tuberization/Lazaro E.P. Peres ...[et al.]
Plant Science, Volume 169, Issue 4, October 2005, p. 680-688, ISSN 0168-9452,
Keywords: *Lycopersicon*; Phytocromes; Plant hormones; Signal transduction; *Solanum*; Source-sink relationship
133. Granule size affects the acetyl substitution on amylopectin populations in potato and sweet potato starches/Zhenghong Chen...[et al.]
Carbohydrate Polymers, Volume 62, Issue 4, 14 December 2005, p 333-337, ISSN 0144-8617,
Keywords: Acetyl group; Degree of substitution; Amylopectin; Granule size; Starch

134. Growth and productivity of potato as influenced by cultivar and reproductive growth: I. Stomatal conductance, rate of transpiration, net photosynthesis, and dry matter production and allocation/T. Tekalign, P.S. Hammes
Scientia Horticulturae, Volume 105, Issue 1, 30 May 2005, p. 13-27, ISSN 0304-4238
Keywords: Assimilate partitioning; Berry set; Photosynthesis; Potato; Stomatal conductance; Transpiration
135. High pressure-low temperature processing of foods: impact on cell membranes, texture, color and visual appearance of potato tissue /C. Luscher, O. Schluter, D. Knorr
Innovative Food Science & Emerging Technologies, Volume 6, Issue 1, March 2005, p.59-71, ISSN 1466-8564
Keywords: High pressure; Potato; Subzero storage; Pressure-shift freezing; Ice III; Ice V; Texture; Impedance; Membrane; Color
136. Identification and olfactometry of French fries flavour extracted at mouth conditions/Wil A. M. van Loon...[et al.]
Food Chemistry, Volume 90, Issue 3, May 2005, p. 417-425, ISSN 0308-8146
Keywords: French fries; Potato; Flavour; Volatile compounds; Dynamic headspace; Olfactometry
137. Increase of photosynthesis and starch in potato under elevated CO₂ is dependent on leaf age/Maria Angelica Casanova Katny, ...[et.al]
Journal of Plant Physiology, Volume 162, Issue 4, 22 April 2005, p. 429-438, ISSN 0176-1617
Keywords: Elevated CO₂; Leaf age; Photosynthetic acclimation; Potato; Starch metabolism; Sucrose metabolism

138. Increasing potato yields with additional water and increased soil temperature/Xiao-Ling Wang...[et al.]
Agricultural Water Management, Volume 78, Issue 3, 5 December 2005, p. 181-194, ISSN 0378-3774
Keywords: Plastic mulch; Potato; Rainwater harvesting; Ridge and furrow; Semiarid region
139. Influence of a flavonoid (formononetin) on mycorrhizal activity and potato crop productivity in the highlands of Peru/Fred T. Davies Jr...[et al.]
Scientia Horticulturae, Volume 106, Issue 3, 3 October 2005, p. 318-329, ISSN 0304-4238
Keywords: Aluminum (Al); Arbuscular mycorrhizal fungi (AMF); Biofertilizers; Formononetin; Glomus spp.; Gigaspora spp.; Isoflavonoid; Phosphorus (P); *Solanum tuberosum* L.
140. Influence of yeast-derived invertase gene expression in potato plants on membrane lipid peroxidation at low temperature/A.N. Deryabin...[et al.]
Journal of Thermal Biology, Volume 30, Issue 1, January 2005, p. 73-77, ISSN 0306-4565
Keywords: Chilling; Invertase; Lipid peroxidation; Malonic dialdehyde; *Solanum tuberosum*; Transgenic plants
141. Inhibition of potato polyphenol oxidase by Maillard reaction product/Min-Kyung Lee, Inshik Park
Food Chemistry, Volume 91, Issue 1, June 2005, p. 57-61, ISSN 0308-8146
Keywords: Polyphenol oxidase; Potato; Maillard reaction product

142. Modelling Oil Absorption During Post-Frying Cooling: I: Model Development/P. Bouchon, D.L. Pyle
Food and Bioproducts Processing, Volume 83, Issue 4, December 2005, p. 253-260, ISSN 0960-3085
Keywords: Frying; Model development; Oil uptake; Potato chip; Post frying cooling
143. Molecular cloning and characterization of a cDNA encoding endonuclease from potato (*Solanum tuberosum*)/Knud Larsen
Journal of Plant Physiology, Volume 162, Issue 11, 15 November 2005, p. 1263-1269, ISSN 0176-1617
Keywords: cDNA; Endonuclease; Lotus japonicus; Potato; RT-PCR cloning
144. Molecular cloning of a potato leaf cDNA encoding an aspartic protease (StAsp) and its expression after *P. infestans* infection /Maria G. Guevara ...[et al.]
Plant Physiology and Biochemistry, Volume 43, Issue 9, September 2005, p. 882-889, ISSN 0981-9428,
Keywords: Aspartic proteinases; Solanum tuberosum; Phytophthora infestans; Antimicrobial proteins; Saposin-like proteins
145. Monitoring the expression patterns of potato genes associated with quantitative resistance to late blight during *Phytophthora infestans* infection using cDNA microarrays/Binglin Wang ...[et al.]
Plant Science, Volume 169, Issue 6, December 2005, p. 1155-1167, ISSN 0168-9452,
Keywords: cDNA microarray; Expression patterns; Potato; Phytophthora infestans; Quantitative resistance
146. Oil uptake and texture development in fried potato slices/Franco Pedreschi, Pedro Moyano
Journal of Food Engineering, Volume 70, Issue 4, October 2005, p. 557-563, ISSN 0260-8774
Keywords: Potato slices; Frying; Texture; Oil uptake

147. Optimisation of product quality and minimisation of its variation in climate controlled operations/G.J. C. Verdijck, G. van Straten, H.A. Preisig
Computers and Electronics in Agriculture, Volume 48, Issue 2, August 2005, p. 103-122, ISSN 0168-1699
Keywords: Product quality control; Quality variation; Optimisation; Hierachial control; Climate control; Potato storage
148. Overexpression of [Delta]1-pyrroline-5-carboxylate synthetase increases proline production and confers salt tolerance in transgenic potato plants/Aida Hmida-Sayari...[et al.]
Plant Science, Volume 169, Issue 4, October 2005, p. 746-752, ISSN 0168-9452
Keywords: [Delta]1-Pyrroline-5-carboxylate synthetase (P5CS); Potato; Proline; Salt tolerance; *Solanum tuberosum*; Osmoregulation
149. Pathogenicity and metalaxyl sensitivity of *Phytophthora infestans* isolates obtained from garden huckleberry, potato and tomato in Cameroon/D.A. Fontem ...[et al]
Crop Protection, Volume 24, Issue 5, May 2005, p. 449-456, ISSN 0261-2194
Keywords: Metalaxyl sensitivity; *P. infestans*; Huckleberry; Potato; Tomato; Infection frequency; Cameroon
150. Physicochemical properties and amylopectin structures of large, small, and extremely small potato starch granules/Takahiro Noda ...[et al]
Carbohydrate Polymers, Volume 60, Issue 2, 6 May 2005, p. 245-251, ISSN 0144-8617
Keywords: Potato starch; Phosphorus content; Granule size; Pasting properties; Amylopectin

151. Potato tuber isoapyrases: Substrate specificity, affinity labeling, and proteolytic susceptibility/A.M. Kettlun...[et al.]
Phytochemistry, Volume 66, Issue 9, May 2005, p. 975-982, ISSN 0031-9422
Keywords: *Solanum tuberosum*; Solanaceae; Potato tuber; ATP diphosphohydrolase; Desiree and Pimpernel isoapyrases; Substrate specificity; Proteolysis
152. Potato virus Y induced changes in the gene expression of potato (*Solanum tuberosum L.*) /Marusa Pompe-Novak ...[et al.]
Physiological and Molecular Plant Pathology, Volume 67, Issues 3-5, September 2005-October 2006, Pages 237-247, ISSN 0885-5765
Keywords: cDNA microarrays; Gene expression; *Solanum tuberosum L.*; Potyviruses; Potato virus YNTN; Real-time PCR; Subtractive hybridization
153. Predicting 3D spatial temperature uniformity in food storage systems from inlet temperature distribution/Sezin Eren Ozcan ...[et al.]
Postharvest Biology and Technology, Volume 37, Issue 2, August 2005, p. 186-194, ISSN 0925-5214
Keywords: Temperature uniformity; Food storage; Potato; Airflow pattern
154. Prediction of the firmness for precooked potato strips at different conditions of temperature and cooking time/Otoniel Corzo, Oscar A. Ramirez
Food Science and Technology, Volume 38, Issue 5, August 2005, p. 529-535, ISSN 0023-6438
Keywords: Firmness; Potato strips; Prediction

155. Probabilistic representation of the exposure of consumers to *Clostridium botulinum* neurotoxin in a minimally processed potato product/G.C. Barker ...[et al.]
International Journal of Food Microbiology, Volume 10015 April 2005, p. 345-357, ISSN 0168-1605
Keywords: Non proteolytic *Clostridium botulinum*; Toxin; Risk; Bayesian Belief Network; Probabilistic modelling; Potato
156. Quantitative sidedress nitrogen recommendations for potatoes based upon crop nutritional indices/M.A. Rodrigues ...[et al.]
European Journal of Agronomy, Volume 23, Issue 1, July 2005, p. 79-88, ISSN 1161-0301
Keywords: *Solanum tuberosum*; Crop N management; Decision support system; Plant analysis; Tissue testing
157. Relationship between the activities of cytochromes P4502E1 and P4502A6 and skatole content in fat in entire male pigs fed with and without raw potato starch/G. Zamaratskaia ...[et al.]
Livestock Production Science, Volume 95, Issues 1-2, 1 August 2005, p. 83-88, ISSN 0301-6226
Keywords: Entire male pigs; Skatole; Raw potato starch; Cytochrome P4502E1; Cytochrome P4502A6
158. Response of three potato (*Solanum tuberosum*) cultivars to pyraflufen-ethyl used as a desiccant in Canada/Jerry A. Ivany
Crop Protection, Volume 24, Issue 9, September 2005, p. 836-841, ISSN 0261-2194
Keywords: Diquat; Tuber sprouting test; Varietal response

159. Root mass and depth, stolons and roots formed on stolons in four cultivars of potato under water stress/Ouam Lahlou, Jean-Francois Ledent
European Journal of Agronomy, Volume 22, Issue 2, February 2005, p. 159-173, ISSN 1161-0301
Keywords: Potato; Water stress; Cultivar; Stolons; Roots; Adventitious roots on stolons
160. Root to shoot communication and abscisic acid in calreticulin (CR) gene expression and salt-stress tolerance in grafted diploid potato clones/Javad Shaterian...[et al.]
Environmental and Experimental Botany, Volume 53, Issue 3, June 2005, p. 323-332, ISSN 0098-8472
Keywords: Calreticulin (CR); Osmotic potential (OP); Potato; Salt-stress; Abscisic acid (ABA)
161. Scanning electron microscopic investigation of different types of necroses in potato tubers/W. Blaszcak ...[et al.]
Food Control, Volume 16, Issue 8, 7th October 2005, p. 747-752, ISSN 0956-7135
Keywords: Potato; Necrosis; Microstructure
162. Selective control of *Orobanche ramosa* in potato with rimsulfuron and sub-lethal doses of glyphosate/M.A. Haidar...[et al.]
Crop Protection, Volume 24, Issue 8, August 2005, p. 743-747, ISSN 0261-2194
Keywords: Potato; Orobanche; Rimsulfuron; Glyphosate
163. Sensitivities of the alternative respiratory components of potato tuber mitochondria to thiol reagents and Ca²⁺ /Andre B. Mariano ...[et al.]
Plant Physiology and Biochemistry, Volume 43, Issue 1, January 2005, p. 61-67, ISSN 0981-9428
Keywords: Ca²⁺; Cold-stress; Plant mitochondria; Potato tubers; -SH active reagents; SHAM

164. Somatic embryogenesis in *Solanum tuberosum* from cell suspension cultures: histological analysis and extracellular protein patterns/Teresa E. Vargas, Eva De Garcia, Maira Oropeza
Journal of Plant Physiology, Volume 162, Issue 4, 22 April 2005, p. 449-456, ISSN 0176-1617

Keywords: Cell suspension; Extracellular proteins; *Solanum tuberosum*; Somatic embryogenesis

165. Structural changes of potato tissue during French fries production /Grazyna Lisinska, Grazyna Golubowska
Food Chemistry, Volume 93, Issue 4, December 2005, p. 681-687, ISSN 0308-8146

Keywords: Potato tuber; French fries; French fries processing line; Tissue structure; Texture; Non-starch polysaccharides; Lignin

166. Synergistic interaction between *Beauveria bassiana*- and *Bacillus thuringiensis tenebrionis*-based biopesticides applied against field populations of Colorado potato beetle larvae/S.P. Wraight, M.E. Ramos

Journal of Invertebrate Pathology, Volume 90, Issue 3, November 2005, p.139-150, ISSN 0022-2011

Keywords: *Bacillus thuringiensis tenebrionis*; *Beauveria bassiana*; *Leptinotarsa decemlineata*; Colorado potato beetle; Biopesticides; Interaction; Synergism

167. Temperature enhanced electroporation under the pulsed electric field treatment of food tissue/Nikolai I. Lebovka...[et al]

Journal of Food Engineering, Volume 69, Issue 2, July 2005, p. 177-184, ISSN 0260-8774

Keywords: Electroporation; Temperature dependence; Pulsed electric field; Texture; Characteristic damage time; Potato

168. Transgenic potato expressing A[beta] reduce A[beta] burden in Alzheimer's disease mouse model/Jung Won Youm ...[et al.]
FEBS Letters, Volume 579, Issue 30, 19 December 2005, p. 6737-6744, ISSN 0014-5793

Keywords: Oral immunization; Beta amyloid; Alzheimer's disease; Transgenic plant; Potato

169. Two PR-1 loci detected in the native cultivated potato Solanum phureja appear differentially expressed upon challenge by late blight/D. Evers...[et al]

Physiological and Molecular Plant Pathology, Volume 67, Issues 3-5, September 2005-October 2006, p.155-163, ISSN 0885-5765

Keywords: PR-1 genes; Pathogenesis-related proteins; Late blight resistance; Potato; Solanum phureja; Phytophthora infestans

170. Utilization of diets with hydrolyzed potato starch, or glucose by juvenile white sturgeon (*Acipenser transmontanus*), as affected by Maillard reaction during feed processing/ Dong-Fang Deng ...[et al]

Aquaculture, Volume 248, Issues 1-4, Thailand, 2-7 May 2004., 29 July 2005, p. 103-109, ISSN 0044-8486

Keywords: White sturgeon; Hydrolyzed potato starch; Glucose; Plasma lysine; Maillard reaction

BIBLIOGRAFI 2006

SCIENCEDIRECT

171. Accessions of *Solanum tuberosum* ssp. *andigena* show differences in photosynthetic recovery after drought stress as reflected in gene expression profiles/Jonathan I. Watkinson...[et al,]
Plant Science, Volume 171, Issue 6, December 2006, p. 745-758, ISSN 0168-9452
Keywords: Anthocyanin; Basic leucine zipper (bZIP); Cytochrome P450 (CYP); Histone deacetylase; Metallothionein; Small heat shock protein
172. Acrylamide content and color development in fried potato strips /Franco Pedreschi, Karl Kaack, Kit Granby
Food Research International, Volume 39, Issue 1, January 2006, p. 40-46, ISSN 0963-9969
Keywords: Potato strips; Frying; Acrylamide; Color; Blanching; Immersing
173. Acrylamide in potato crisp--the effect of raw material and processing/Trude Wicklund ...[et al.]
Food Science and Technology, Volume 39, Issue 5, June 2006, p. 571-575, ISSN 0023-6438
Keywords: Potato; Acrylamide; Reducing sugars; Free asparagine
174. Adaptation of water and nitrogen management of spring barley and potato as a response to possible climate change in Ireland /Nicholas M. Holden, Anthony J. Brereton
Agricultural Water Management, Volume 82, Issue 3, 24 April 2006, p. 297-317, ISSN 0378-3774
Keywords: Climate change; Potato; Spring barley; Water; Irrigation; Nitrogen

175. Aerobic biodegradation of potato slops under moderate thermophilic conditions: Effect of pollution load/Edmund Cibis, Małgorzata Krzywonos, Tadeusz Miskiewicz
Bioresource Technology, Volume 97, Issue 4, March 2006, p. 679-685, ISSN 0960-8524
Keywords: Potato slops; Thermophilic and mesophilic bacteria; High strength wastewater; Aerobic biodegradation; Batch cultures
176. Balance between nutrients and anti-nutrients in nine Italian potato cultivars/Enrico Finotti, Aldo Bertone, Vittorio Vivanti
Food Chemistry, Volume 99, Issue 4, 2006, p. 698-701, ISSN 0308-8146
Keywords: Potato; Acrylamide; Nutrients; Anti nutrients; Technological processes
177. Black scurf of potato/Abdessamad M. El Bakali, Maria P. Martin
Mycologist, Volume 20, Issue 4, November 2006, p. 130-132, ISSN 0269-915X
Keywords: Black scurf; Potato; Rhizoctonia solani; Thanatephorus cucumeris
178. Changes in characteristics of sweet potato flour prepared by different drying techniques/A. Ramesh Yadav...[et al.]
Food Science and Technology, Volume 39, Issue 1, January 2006, p. 20-26, ISSN 0023-6438
Keywords: Sweet potato flour; Pasting behaviour; Hot air drying; Drum drying; Scanning electron microscope; X-ray diffraction; 13C NMR
179. Changes of glycoalkaloids and nitrate contents in potatoes during chip processing /A. Peksa ...[et.al.]
Food Chemistry, Volume 97, Issue 1, July 2006, p. 151-156, ISSN 0308-8146
Keywords: Glycoalkaloids; Nitrates; Potato; Stages of chip processing

180. Cloning and characterization of a theta class glutathione transferase from the potato pathogen *Phytophthora infestans*/David Bryant...[et al.]

Phytochemistry, Volume 67, Issue 14, July 2006, p. 1427-1434, ISSN 0031-9422

Keywords: Detoxification; Glutathione peroxidase; Oxylipin; Phytoalexin; Phytopathogenic fungi, *Phytophthora infestans*; Potato, *Solanum tuberosum*

181. Color indices for the assessment of chlorophyll development and greening of fresh market potatoes/Laura Grunenfelder, Larry K. Hiller, N. Richard Knowles

Postharvest Biology and Technology, Volume 40, Issue 1, April 2006, p. 73-81, ISSN 0925-5214

Keywords: *Solanum tuberosum*; Greening; Chlorophyll development; Light; Tubers

182. Cuticular waxes from potato (*Solanum tuberosum*) leaves/Beata M. Szafranek, Elzbieta E. Synak

Phytochemistry, Volume 67, Issue 1, January 2006, p. 80-90, ISSN 0031-9422

Keywords: *Solanum tuberosum*; Solanaceae; Potato; Cuticular waxes; HPLC; GC and GC-MS analyses; 2-Alkanols; Methyl ketones

183. Determination of acrylamide in potato chips by a reversed-phase LC-MS method based on a stable isotope dilution assay/Jose A. Rufian-Henares, Francisco J. Morales

Food Chemistry, Volume 97, Issue 3, August 2006, p. 555-562, ISSN 0308-8146

Keywords: Acrylamide; Potato chips; Stable isotope dilution analysis; LC-MS

184. Determination of the phosphorus content in potato starch using an energy-dispersive X-ray fluorescence method/Takahiro Noda ...[et al.]
Food Chemistry, Volume 95, Issue 4, April 2006, p. 632-637, ISSN 0308-8146
Keywords: Potato starch; Phosphorus content; X-ray fluorescence; Non-destructive method
185. Development of a computer vision system to measure the color of potato chips/Franco Pedreschi ...[et al.]
Food Research International, Volume 39, Issue 10, Physical Properties VI, December 2006, p. 1092-1098, ISSN 0963-9969
Keywords: Potato chips; Frying; Color; Computer vision; L*a*b*; Image processing
186. Developmental changes in sugars and dry matter content of potato tuber under sub-tropical climates/Dinesh Kumar, R. Ezekiel
Scientia Horticulturae, Volume 110, Issue 2, 9 October 2006, p. 129-134, ISSN 0304-4238
Keywords: Sucrose; Reducing sugars; Dry matter; Potato tuber; Growth
187. Drought resistance of potato cultivars with contrasting canopy architecture/Siegfried Schittenhelm, Heinz Sourell, Franz-Josef Lopmeier
European Journal of Agronomy, Volume 24, Issue 3, April 2006, p. 193-202, ISSN 1161-0301
Keywords: Potato; Canopy structure; Drought stress; Radiation interception
188. Drying kinetics and quality of potato chips undergoing different drying techniques/Namtip Leeratanarak, Sakamon Devahastin, Naphaporn Chiewchan
Journal of Food Engineering, Volume 77, Issue 3, December 2006, p. 635-643, ISSN 0260-8774
Keywords: Blanching; Browning index; Color; Hardness; Hot air drying; Low-pressure superheated steam drying

189. Early management of late blight (*Phytophthora infestans*) by using systemic fungicides applied to seed-potato tubers/A.B. Andreu, D.O. Caldiz
Crop Protection, Volume 25, Issue 3, March 2006, p. 281-286, ISSN 0261-2194
Keywords: *Solanum tuberosum*; Late blight; Systemic fungicides; Seed-tubers; Foliage protection
190. Effect of cultivars, wound healing and storage on sensory quality and chemical components in pre-peeled potatoes/A.K. Thybo, J. Christiansen, K. Kaack, M.A.
Food Science and Technology, Volume 39, Issue 2, March 2006, p. 166-176, ISSN 0023-6438
Keywords: Potato; Pre-peeled; Sensory quality; Chemical composition; Aroma compounds
191. Effect of different cooking methods on the instrumental quality of potatoes (cv. Agata)/Emma Chiavaroli ...[et al.]
Journal of Food Engineering, Volume 77, Issue 1, November 2006, p. 169-178, ISSN 0260-8774
Keywords: Potato; Steam; Cooking treatments; Texture; Colour; Weight loss
192. Effect of heating on the thermodynamic characteristics of potato starch/Tatiana Y. Bogracheva, Cheryl Meares, Cliff L. Hedley
Carbohydrate Polymers, Volume 63, Issue 3, 3 March 2006, p. 323-330, ISSN 0144-8617
Keywords: Starch; Granular structure; Crystallinity; Double helices; Polymorphs; Melting enthalpy; Differential Scanning calorimetry; Melting; Gelatinisation

193. Effect of low temperature blanching on the texture of whole processed new potatoes/Nissreen Abu-Ghannam, Helen Crowley
Journal of Food Engineering, Volume 74, Issue 3, June 2006, p. 335-344, ISSN 0260-8774

Keywords: New potatoes; Pectin methyl esterase; Firmness

194. Effect of photoperiod on tuberization in the Livingstone potato (*Plectranthus esculentus* N.E.Br. Lamiaceae)/J. Allemann, P.S. Hammes

Field Crops Research, Volume 98, Issue 1, 1 July 2006, p. 76-81, ISSN 0378-4290

Keywords: Livingstone potato; *Plectranthus esculentus*; Critical photoperiod; Tuberization; Short days; Inductive cycles

195. Effect of tomato leaf traits on the potato tuber moth and its predominant larval parasitoid: A mechanism for enemy-free space/Bayeh Mulatu, Shalom W. Applebaum, Moshe Coll

Biological Control, Volume 37, Issue 2, May 2006, p. 231-236, ISSN 1049-9644

Keywords: *Diadegma pulchripes*; *Phthorimaea operculella*; Glandular trichome; Tomato; Enemy free space; Host plant resistance; Biological control

196. Effect of water stress on proline accumulation of genetically modified potatoes (*Solanum tuberosum* L.) generating fructans /Gabriele Knipp, Bernd Honermeier

Journal of Plant Physiology, Volume 163, Issue 4, March 2006, p. 392-397, ISSN 0176-1617

Keywords: Fructan; Genetically modified plants; Potato; Proline; *Solanum tuberosum* L.; Water stress

197. Effects of biotic stress caused by Potato virus Y on photosynthesis in ipt transgenic and control *Nicotiana tabacum* L./Helena Synkova ...[et al.]

Plant Science, Volume 171, Issue 5, November 2006, p. 607-616, ISSN 0168-9452

Keywords: Potato virus Y; Photosynthesis; Transgenic tobacco; ipt; Cytokinins

198. Effects of deficit irrigation (DI) and partial root drying (PRD) on gas exchange, biomass partitioning, and water use efficiency in potato/Fulai Liu ...[et al.]

Scientia Horticulturae, Volume 109, Issue 2, 29 June 2006, p. 113-117, ISSN 0304-4238

Keywords: Plant growth; Partial root drying; *Solanum tuberosum* L.; Stomatal conductance; WUE

199. Effects of drip irrigation frequency on soil wetting pattern and potato growth in North China Plain /Feng-Xin Wang, Yaohu Kang, Shi-Ping Liu

Agricultural Water Management, Volume 79, Issue 3, 10 February 2006, p. 248-264, ISSN 0378-3774

Keywords: Drip irrigation frequency; Potato; Soil water distribution; Root distribution

200. Effects of water potential on mycelial growth, sclerotial production, and germination of *Rhizoctonia solani* from potato/Faye Ritchie, Mark P. McQuilken, Ruairidh A. Bain

Mycological Research, Volume 110, Issue 6, June 2006, p. 725-733, ISSN 0953-7562

Keywords: Anastomosis group; Mycelia; Potato; *Rhizoctonia solani*; Sclerotia; Water potential

201. Efficacy of fungicidal protection of newly developing potato leaves against *Phytophthora infestans*/A. Evenhuis, H.G. Spits, H.T.A.M. Schepers

Crop Protection, Volume 25, Issue 6, June 2006, p. 562-568, ISSN 0261-2194

Keywords: Potato; Solanum tuberosum; Late blight; Fungicides; Spray intervals; New growth

202. Efficient production of transgenic potato (*S. tuberosum* L. ssp. *andigena*) plants via *Agrobacterium tumefaciens*-mediated transformation/Anjan K. Banerjee, Salome Prat, David J. Hannapel

Plant Science, Volume 170, Issue 4, April 2006, p. 732-738, ISSN 0168-9452

Keywords: Potato; Transformation; Agrobacterium; Tubers

203. Enzymatic degradation studies of xylogalacturonans from apple and potato, using xylogalacturonan hydrolase/J. Zandleven ...[et al.]

Carbohydrate Polymers, Volume 65, Issue 4, 13 September 2006, p. 495-503, ISSN 0144-8617

Keywords: Apple modified hairy regions; Potato modified hairy regions; Gum Tragacanth; Pectin; Endo-Xylogalacturonan hydrolase

204. Expression of hepatitis B surface antigen in potato hairy roots /G.B. Sunil Kumar ...[et al.]

Plant Science, Volume 170, Issue 5, May 2006, p. 918-925, ISSN 0168-9452

Keywords: Hepatitis B surface antigen; Potato hairy roots

205. Field evaluation of potato plants transgenic for a cry1Ac gene conferring resistance to potato tuber moth, *Phthorimaea operculella* (Zeller) (Lepidoptera: Gelechiidae)/M.M. Davidson...[et al.]

Crop Protection, Volume 25, Issue 3, March 2006, p. 216-224, ISSN 0261-2194

Keywords: *Phthorimaea operculella; Cry1Ac; Resistance; Transgenic potato; Field trials*

206. Heat inactivation of *Listeria monocytogenes* Scott A on potato surfaces/Joy E. Gaze, Andrew R. Boyd, Hannah L. Shaw

Journal of Food Engineering, Volume 76, Issue 1, Bugdeath, September 2006, p. 27-31, ISSN 0260-8774

Keywords: *Listeria monocytogenes; Heat inactivation; Surface pasteurization*

207. Identification and characterization of potato protease inhibitors able to inhibit pathogenicity and growth of *Botrytis cinerea*/M.R. Hermosa...[et al.]

Physiological and Molecular Plant Pathology, Volume 68, Issues 4-6, April-June 2006, p. 138-148, ISSN 0885-5765

Keywords: *Proteinase inhibitors; Kunitz type inhibitor; Proteinase inhibitor 1; Solanum tuberosum; Anti-fungal; Botrytis cinerea; Bemisia tabaci*

208. Identification and characterization of RB-orthologous genes from the late blight resistant wild potato species *Solanum verrucosum* / Zhenyu Liu, Dennis Halterman

Physiological and Molecular Plant Pathology, Volume 69, Issues 4-6, October-December 2006, p. 230-239, ISSN 0885-5765

Keywords: *Late blight; Host resistance; Potato; Solanum verrucosum; Resistance gene cloning*

209. Impact of iron stress on biomass, yield, metabolism and quality of potato (*Solanum tuberosum* L.)/C. Chatterjee, Rajeev Gopal, B.K. Dube

Scientia Horticulturae, Volume 108, Issue 1, 16 March 2006, p. 1-6, ISSN 0304-4238

Keywords: *Solanum tuberosum*; Fe deficiency and toxicity; Chlorophyll; Starch content

210. Impacts of insect-resistant transgenic potatoes on the survival and fecundity of a parasitoid and an insect predator/M.M. Davidson ...[et al.]

Biological Control, Volume 37, Issue 2, May 2006, p. 224-230, ISSN 1049-9644

Keywords: *Phthorimaea operculella*; Parasitoid; *Apanteles subandinus*; Predator; *Micromus tasmaniae*; *Myzus persicae*; Beneficial insects; *Bacillus thuringiensis*; Transgenic plants; *Solanum tuberosum*

211. Indigenous Peruvian entomopathogenic nematode for suppression of the Andean potato weevil/Soroush Parsa ...[et al.]

Biological Control, Volume 39, Issue 2, November 2006, p. 171-178, ISSN 1049-9644

Keywords: *Premnotrypes suturicallus*; Heterorhabditis; Potato; *Solanum*; Andean farming

212. Individual based models in the analysis of disease transmission in plant production chains: An application to potato brown rot /Annemarie Breukers ...[et al.]

Agricultural Systems, Volume 90, Issues 1-3, October 2006, p. 112-131, ISSN 0308-521X

Keywords: Individual-based model; Production chain; Epidemiology; Potato; *Ralstonia solanacearum*

213. Influence of cropping system on harvest erosion under potato/K. Auerswald, G. Gerl, M. Kainz
Soil and Tillage Research, Volume 89, Issue 1, August 2006, p. 22-34, ISSN 0167-1987
Keywords: Potato harvest; Soil loss; Organic farming; Mulch
214. Influence of different processing methods on the glycemic index of potato (Nicola)/R. Tahvonen ...[et al.]
Journal of Food Composition and Analysis, Volume 19, Issue 4, June 2006, p. 372-378, ISSN 0889-1575
Keywords: Glycemic index; Glycemic load; Potato; Oral glucose tolerance test
215. Isolation and characterization of a novel potato Auxin/Indole-3-Acetic Acid family member (StIAA2) that is involved in petiole hyponasty and shoot morphogenesis/B. Kloosterman, R.G.F. Visser, C.W.B. Bachem
Plant Physiology and Biochemistry, Volume 44, Issues 11-12, November-December 2006, p. 766-775, ISSN 0981-9428
Keywords: Aux/IAA protein; Solanum tuberosum; Hyponasty; Shoot morphogenesis
216. Isolation and characterization of iso-inhibitors of the potato protease inhibitor I family from the latex of the rubber trees, Hevea brasiliensis/Wannapa Sritanyarat ...[et al.]
Phytochemistry, Volume 67, Issue 15, Rod Croteau Special Issue, Part 1, August 2006, p. 1644-1650, ISSN 0031-9422
Keywords: Hevea brasiliensis; Euphorbiaceae; Proteinase iso-inhibitors; Wounding; Plant defense
217. Kinetic study of thermophilic anaerobic digestion of solid wastes from potato processing/Bernd Linke
Biomass and Bioenergy, Volume 30, Issue 10, October 2006, p. 892-896, ISSN 0961-9534
Keywords: Anaerobic digestion; Thermophilic; CSTR; Biogas; Potato wastes; Kinetic model

218. Kinetics of chemical marker M-2 formation in mashed potato--a tool to locate cold spots under microwave sterilization/R.B. Pandit, J. Tang, G. Mikhaylenko, F. Liu

Journal of Food Engineering, Volume 76, Issue 3, October 2006, p. 353-361, ISSN 0260-8774

Keywords: Chemical marker M-2; M-2 kinetics; d-ribose; l-lysine; Mashed potato; Microwave sterilization; Cold and hot spots

219. Kinetics of oil uptake during frying of potato slices: Effect of pre-treatments/Pedro C. Moyano, Franco Pedreschi

Food Science and Technology, Volume 39, Issue 3, April 2006, p. 285-291, ISSN 0023-6438

Keywords: Frying; Potato; Oil uptake; Kinetics

220. Local and distal gene expression of pr-1 and pr-5 in potato leaves inoculated with isolates from the old (US-1) and the new (US-8) genotypes of *Phytophthora infestans* (Mont.) de Bary/Xiben Wang ...[et al.]

Environmental and Experimental Botany, Volume 57, Issues 1-2, August 2006, p. 70-79, ISSN 0098-8472

Keywords: Potato (*Solanum tuberosum*); Late blight; *Phytophthora infestans* (Mont.) de Bary; PR-proteins (PR-1; PR-5); Defense genes

221. Low-level jet streams associated with spring aphid migration and current season spread of potato viruses in the U.S. northern Great Plains /Min Zhu ...[et.al.]

Agricultural and Forest Meteorology, Volume 138, Issues 1-4, 29 August 2006, p. 192-202, ISSN 0168-1923

Keywords: *Myzus persicae*; Potato leafroll virus; Potato virus Y; Low-level jet stream

222. Measuring moisture diffusivity of potato and carrot (core and cortex) during convective hot air and isothermal drying/Jaruk Srikiatden, John S. Roberts
Journal of Food Engineering, Volume 74, Issue 1, May 2006, p. 143-152, ISSN 0260-8774
Keywords: Drying; Isothermal; Diffusion; Hygroscopic; Potato; Carrot; Modeling
223. Modeling expansion of individual leaves in the potato canopy /David H. Fleisher, Dennis Timlin
Agricultural and Forest Meteorology, Volume 139, Issues 1-2, 21 September 2006, P. 84-93, ISSN 0168-1923
Keywords: Carbon accumulation; Crop simulation models; Leaf age; Leaf expansion; Potato
224. Nematodes of the genus *Pristionchus* are closely associated with scarab beetles and the Colorado potato beetle in Western Europe /Matthias Herrmann, Werner E. Mayer, Ralf J. Sommer
Zoology, Volume 109, Issue 2, 22 May 2006, p. 96-108, ISSN 0944-2006
Keywords: Pristionchus; Nematoda; Scarabaeoid beetles; Colorado potato beetle; *Caenorhabditis elegans*
225. Novel [alpha]-1, 3-glucan elicits plant defense responses in potato and induces protection against *Rhizoctonia solani* AG-3 and *Fusarium solani* f. sp. *eumartii*/Erika A. Wolski...[et.al.]
Physiological and Molecular Plant Pathology, Volume 69, Issues 1-3, July-September 2006, p. 93-103, ISSN 0885-5765
Keywords: [alpha]-1, 3-glucan; Elicitor; Non-pathogenic Rhizoctonia isolate; Plant defense responses; Potato sprouts; Protection; *Rhizoctonia solani*
226. Novel *in vitro* hydroponic culture system for potato (*Solanum tuberosum* L.) microtuber production/Duong Tan Nhu ...[at al.]
Scientia Horticulturae, Volume 110, Issue 3, 8 November 2006, p. 230-234, ISSN 0304-4238,
Keywords: Cotton layer; Filter paper; In vitro hydroponics

227. Ohmically heated enhanced expression of juice from apple and potato tissues/I. Praporscic ...[et al.]
Biosystems Engineering, Volume 93, Issue 2, February 2006, p. 199-204, ISSN 1537-5110,
Keywords: Potato; Apple; Plant growth substances; Culture media; Bioengineering; Ohmically heated
228. Physico-chemical and morphological characteristics of New Zealand Taewa (Maori potato) starches/Jaspreet Singh, Owen J. McCarthy, Harjinder Singh
Carbohydrate Polymers, Volume 64, Issue 4, 16 June 2006, p. 569-581, ISSN 0144-8617
Keywords: Solanum tuberosum; Potato starch; Cultivar; Physico chemical; Morphological; Thermal; Pasting; Textural; Retrogradation
229. Physiological and growth response to moderate water deficit of off-season potatoes in a Mediterranean environment/Anita Ierna, Giovanni Mauromicale
Agricultural Water Management, Volume 82, Issues 1-2, 10 April 2006, p. 193-209, ISSN 0378-3774
Keywords: Photosynthetic rate; Diffusive leaf resistance; Tuber growth; Off season potato; Water deficit
230. Potato virus Y induced changes in the gene expression of potato (*Solanum tuberosum* L.)/Marusa Pompe-Novak ...[et al]
Physiological and Molecular Plant Pathology, Volume 67, Issues 3-5, September 2005-October 2006, p. 237-247, ISSN 0885-5765
Keywords: cDNA microarrays; Gene expression; Solanum tuberosum L.; Potyviruses; Potato virus YNTN; Real-time PCR; Subtractive hybridization

231. Potential of the fungus, *Muscodor albus*, as a microbial control agent of potato tuber moth (Lepidoptera: Gelechiidae) in stored potatoes/Lawrence A. Lacey, Lisa G. Neven
Journal of Invertebrate Pathology, Volume 91, Issue 3, March 2006, p. 195-198, ISSN 0022-2011
Keywords: ***Muscodor albus; Phthorimaea operculella; Potato***
232. Preparation and properties of ethylenebisformamide plasticized potato starch (EPTPS)/Jin-Hui Yang, Jiu-Gao Yu, Xiao-Fei Ma
Carbohydrate Polymers, Volume 63, Issue 2, 3 February 2006, p. 218-223, ISSN 0144-8617
Keywords: ***Thermoplastic starch; Ethylenebisformamide; Novel plasticizer***
233. Primary *in vivo* steroidal alkaloid glucosyltransferase from potato /Kent F. McCue ...[et al.]
Phytochemistry, Volume 67, Issue 15, Rod Croteau Special Issue, Part 1, August 2006, p. 1590-1597, ISSN 0031-9422
Keywords: ***Solanum tuberosum; Solanaceae; Potato; Molecular genetics; Steroidal glycoalkaloids; UDP-glucose:solanidine glucosyltransferase; Chaconine; Solanine; Sgt1; Sgt2***
234. Production of potato intraspecific somatic hybrids with improved tolerance to PVY and *Pythium aphanidermatum*/Oumema Nouri-Ellouz ...[et al.]
Journal of Plant Physiology, Volume 163, Issue 12, 7 December 2006, p. 1321-1332, ISSN 0176-1617
Keywords: ***Protoplast fusion; PVY; Pythium aphanidermatum; Solanum tuberosum L.; Somatic hybrids***
235. Quality related aspects of high pressure low temperature processed whole potatoes/G. Urrutia Benet ...[et al.]
Innovative Food Science & Emerging Technologies, Volume 7, Issues 1-2, June 2006, p. 32-39, ISSN 1466-8564
Keywords: ***HPLT processing; Pilot scale; Metastable phases***

236. Regulatory role of polyamine in the acid phosphatase from potato tubers/Yasuko Tanemura, Masataka Yoshino

Plant Physiology and Biochemistry, Volume 44, Issue 1, January 2006, p. 43-48, ISSN 0981-9428

Keywords: Acid phosphatase; Polyamine; Spermine; Calcium; Magnesium; Potato; Pyrophosphate

237. Relationship between Feeding Damage by Beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae) and leaf trichome density of potato/Min Kwon, Hyeon-Mook Cho, Young-Joon

Journal of Asia-Pacific Entomology, Volume 9, Issue 4, December 2006, p. 361-367, ISSN 1226-8615

Keywords: Spodoptera exigua; Solanum tuberosum; resistance; leaf trichome

238. Resistant starch formation in temperature treated potato starches varying in amylose/amyopectin ratio/A. Margareta Leeman ...[et al.]

Carbohydrate Polymers, Volume 65, Issue 3, 15 August 2006, p. 306-313, ISSN 0144-8617

Keywords: Potato; Starch; Amylose; Amylopectin; Resistant starch; Hydrolysis

239. Response of potato (*Solanum tuberosum* L.) to elevated atmospheric CO₂ in the North American Subarctic /Jeffery S. Conn, Verlan L. Cochran

Agriculture, Ecosystems & Environment, Volume 112, Issue 1, January 2006, p. 49-57, ISSN 0167-8809

Keywords: Carbon dioxide; Atmospheric CO₂; Potato; Yield; Photosynthesis; Open-top chambers; Subarctic

240. Response of the digestive system of *Helicoverpa zea* to ingestion of potato carboxypeptidase inhibitor and characterization of an uninhibited carboxypeptidase B/Alex Bayes ...[et al.]
Insect Biochemistry and Molecular Biology, Volume 36, Issue 8, August 2006, p. 654-664, ISSN 0965-1748
Keywords: ***Helicoverpa; Carboxypeptidase; Inhibitor; Digestion; Mid-gut***
241. Sensitivity of *Erwinia* spp. to salt compounds *in vitro* and their effect on the development of soft rot in potato tubers in storage /A.A.S. Mills, H.W. (Bud) Platt, R.A.R. Hurta
Postharvest Biology and Technology, Volume 41, Issue 2, August 2006, p. 208-214, ISSN 0925-5214
Keywords: ***Erwinia; Salt compounds; Post harvest disease; Alternative controls***
242. Shape of bruise spots in impacted potatoes/J. Blahovec
Postharvest Biology and Technology, Volume 39, Issue 3, March 2006, p. 278-284, ISSN 0925-5214
Keywords: ***Potato; Tuber; Bruising; Impact; Bruise volume; Shape; Polynomial of the third order; Longitudinal asymmetry; Bruise spot ratio; Bruise spot cross-extension***
243. Shelf life of minimally processed potatoes: Part 1. Effects of high oxygen partial pressures in combination with ascorbic and citric acids on enzymatic browning/S. Limbo, L. Piergiovanni
Postharvest Biology and Technology, Volume 39, Issue 3, March 2006, p. 254-264, ISSN 0925-5214
Keywords: ***Minimally processed potatoes; Enzymatic browning; High oxygen treatment; Ascorbic acid; Citric acid; Central composite design***

244. Simulation modeling of soil and plant nitrogen use in a potato cropping system in the humid and cool environment/Hong Li, Leon E. Parent, Antoine Karam
Agriculture, Ecosystems & Environment, Volume 115, Issues 1-4, July 2006, p. 248-260, ISSN 0167-8809
Keywords: Model prediction; N balance; N partitioning; Potato tuber yield; Simulation modeling
245. Soil losses due to mechanized potato harvesting/G. Ruysschaert ...[et al.]
Soil and Tillage Research, Volume 86, Issue 1, March 2006, p. 52-72, ISSN 0167-1987
Keywords: Soil tare; Potato; Harvest; Soil loss; Soil erosion; Soil clods; Soil loss due to crop harvesting; Soil moisture; Texture
246. Soil water stress and the growth and yield of potato plants grown from microtubers and conventional seed tubers/Jackson Kawakami, Kazuto Iwama, Yutaka Jitsuyama
Field Crops Research, Volume 95, Issue 1, 8 January 2006, p. 89-96, ISSN 0378-4290
Keywords: Drought tolerance; Field cultivation; Leaf area index; Root growth; Solanum tuberosum L.; Stomatal conductance
247. Study of colour and acrylamide formation in coffee, wheat flour and potato chips during heating/Vural Gokmen, Hamide Z. Senyuva
Food Chemistry, Volume 99, Issue 2, 2006, p. 238-243, ISSN 0308-8146
Keywords: Acrylamide; Colour; Heating; Green coffee; Wheat flour; Potato chips

248. Study of the mass transfer in osmotic dehydration of coated potato cubes/Mya Mya Khin, Weibiao Zhou, Conrad O. Perera
Journal of Food Engineering, Volume 77, Issue 1, November 2006, p. 84-95, ISSN 0260-8774,
Keywords: Osmotic dehydration; Coating; Mass transfer; Diffusion; Kinetics; Modeling
249. Target site insensitivity and mutational analysis of acetylcholinesterase from a carbofuran-resistant population of Colorado potato beetle, *Leptinotarsa decemlineata*/Hyo Jeong Kim ...[et al.]
Pesticide Biochemistry and Physiology, Volume 84, Issue 3, March 2006, p. 165-179, ISSN 0048-3575
Keywords: Colorado potato beetle; Carbofuran resistance; AChE insensitivity; Point mutations; Negative cross resistance; Negative cross insensitivity
250. Trickle and sprinkler irrigation of potato (*Solanum tuberosum* L.) in the Middle Anatolian Region in Turkey/Mustafa Unlu ...[et al.]
Agricultural Water Management, Volume 79, Issue 1, 10 January 2006, p. 43-71, ISSN 0378-3774
Keywords: Potato; Trickle irrigation; Sprinkler irrigation; Fertilization; Yield
251. Two PR-1 loci detected in the native cultivated potato Solanum phureja appear differentially expressed upon challenge by late blight/D. Evers ...[et al.]
Physiological and Molecular Plant Pathology, Volume 67, Issues 3-5, September 2005-October 2006, p. 155-163, ISSN 0885-5765
Keywords: PR-1 genes; Pathogenesis related proteins; Late blight resistance; Potato; Solanum phureja; *Phytophthora infestans*

252. Validation of decision support systems for tomato early blight and potato late blight, under Brazilian conditions/D.C. Batista ...[et al.] *Crop Protection*, Volume 25, Issue 7, July 2006, p. 664-670, ISSN 0261-2194

Keywords: *Alternaria solani; Phytophthora infestans; Epidemiology; Management*

253. Within-species variability of the response to 20-hydroxyecdysone in peach-potato aphid (*Myzus persicae* Sulzer/Thibaut Malausa ...[et al.]

Journal of Insect Physiology, Volume 52, Issue 5, May 2006, p. 480-486, ISSN 0022-1910

Keywords: *Hydroxyecdysone; Peach potato aphid; Genetic variability; Resistance; Pest species management*

254. X-ray study of hydrothermally treated potato starch/Rudi Vermeylen, Bart Goderis, Jan A. Delcour

Carbohydrate Polymers, Volume 64, Issue 2, 11 May 2006, p. 364-375, ISSN 0144-8617

Keywords: *Potato starch; Annealing; Heat moisture treatment; WAXD; SAXS*

BIBLIOGRAFI 2007

SCIENCEDIRECT

255. Analysis of frictional, displacement rate and sample dimension effects on fracture parameters from uniaxial compression of potato/W. Canet, M.D. Alvarez, M.J. Gil
Journal of Food Engineering, Volume 80, Issue 1, May 2007, P. 342-352, ISSN 0260-8774
Keywords: Fracture parameters; Flatness; Displacement rate; Lubrication; Linear discriminant analysis; *Solanum tuberosum L.*
256. Application of matrix solid-phase dispersion in the determination of acrylamide in potato chips/Jose O. Fernandes, Cristina Soares
Journal of Chromatography A, Volume 1175, Issue 1, 14 December 2007, p. 1-6, ISSN 0021-9673
Keywords: Matrix solid phase dispersion (MSPD); Acrylamide; Food analysis; GC-MS
257. Application of matrix solid-phase dispersion to the prophan and maleic hydrazide determination in potatoes by differential pulse voltammetry and HPLC/Alberto Sanchez Arribas...[et.al.],
Talanta, Volume 71, Issue 1, 15 January 2007, p. 430-436, ISSN 0039-9140
Keywords: Matrix solid phase dispersion; Electrochemical detection; Prophan Maleic
258. Capturing candidate drought tolerance traits in two native Andean potato clones by transcription profiling of field grown plants under water stress/Roland Schafleitner ...[et al.],
Plant Physiology and Biochemistry, Volume 45, Issue 9, September 2007, p. 673-690, ISSN 0981-9428
Keywords: Potato; Drought; Drought tolerance traits; Microarray; Gene expression profiling

259. Cell wall [alpha]-1,3-glucans from a biocontrol isolate of *Rhizoctonia*: immunocytolocalization and relationship with [alpha]-glucanase activity from potato sprouts/Erika Wolski ...[et al.]
Mycological Research, Volume 111, Issue 8, August 2007, p. 976-984, ISSN 0953-7562
Keywords: Immunoelectron microscopy; Non pathogenic binucleate; Plant-fungus interactions; *Solanum tuberosum*; Ultrastructure
260. CFD simulation of effects of operating parameters and product on heat transfer and moisture loss in the stack of bagged potatoes/M.K. Chourasia, T.K. Goswami
Journal of Food Engineering, Volume 80, Issue 3, June 2007, p. 947-960, ISSN 0260-8774
Keywords: Potato; Cold store; Operating and product parameters; Heat and mass transfer; Stack; CFD
261. Characteristics of acetylated and enzyme-modified potato and sweet potato flours/Ramesh Yadav, S[et al.]
Food Chemistry, Volume 103, Issue 4, 2007, p. 1119-1126, ISSN 0308-8146
Keywords: Potato; Sweet potato; Starch; Acetylation; Enzyme modification; Gel permeation chromatography; Infra red
262. Characterization of ScORK28, a transmembrane functional protein receptor kinase predominantly expressed in ovaries from the wild potato species *Solanum chacoense*/Hugo Germain ...[et al.]
FEBS Letters, Volume 581, Issue 26, 30 October 2007, p. 5137-5142, ISSN 0014-5793
Keywords: Receptor like kinase; Ovule; Fertilization; *Solanum chacoense*

263. Cloning of proteinase inhibitor gene StPI in diploid potato and its expression analysis/Guang-cun LI ...[et al.]
Agricultural Sciences in China, Volume 6, Issue 11, November 2007, p. 1315-1321, ISSN 1671-2927
Keywords: potato bacterial; wilt; RACE; StPI; gene; full-length cDNA; gene expression
264. Color development and acrylamide content of pre-dried potato chips/Franco Pedreschi ...[et al.]
Journal of Food Engineering, Volume 79, Issue 3, April 2007, p. 786-793, ISSN 0260-8774
Keywords: Potato chips; Frying; Color; Pre-drying; Blanching; Acrylamide
265. Color kinetics and acrylamide formation in NaCl soaked potato chips/Franco Pedreschi ...[et al.]
Journal of Food Engineering, Volume 79, Issue 3, April 2007, p. 989-997, ISSN 0260-8774
Keywords: Potato slices; Frying; Color; Kinetics; Soaking; NaCl; Acrylamide
266. Colour and image texture analysis in classification of commercial potato chips/ Fernando Mendoza, Petr Dejmek, Jose M. Aguilera,
Food Research International, Volume 40, Issue 9, November 2007, p. 1146-1154, ISSN 0963-9969
Keywords: Potato chips; Quality; Colour; Image
267. Composition of building blocks in clusters from potato amylopectin /Eric Bertoft
Carbohydrate Polymers, Volume 70, Issue 1, 2 August 2007, p. 123-136, ISSN 0144-8617
Keywords: Potato amylopectin starch; Amylopectin structure; Cluster structure; Building blocks

268. Composition of clusters and their arrangement in potato amylopectin/Eric Bertoft
Carbohydrate Polymers, Volume 68, Issue 3, 5 April 2007, p. 433-446, ISSN 0144-8617
Keywords: Potato amylopectin starch; Amylopectin structure; Cluster structure; Cluster interconnection; [alpha]-Amylolysis
269. Computer vision-based image analysis for the estimation of acrylamide concentrations of potato chips and french fries/V. Gokmen ...[et al.]
Food Chemistry, Volume 101, Issue 2, 2007, p. 791-798, ISSN 0308-8146
Keywords: Acrylamide; Potato chips; French fries; Surface colour; Computer vision-based image analysis
270. Contribution of a straw bedding to digestible nutrient intake of pigs fed diets based on either native or pregelatinized potato starch/S.T.M. Staals ...[et al.]
Livestock Science, Volume 109, Issues 1-3, 15 May 2007, p. 104-107, ISSN 1871-1413
Keywords: Digestibility; Pigs; Enriched housing; Straw; Resistant starch; Alkanes
271. Control of soilborne potato diseases using Brassica green manures/Robert P. Larkin, Timothy S. Griffin,
Crop Protection, Volume 26, Issue 7, July 2007, p. 1067-1077, ISSN 0261-2194
Keywords: Solanum tuberosum; Cropping systems; Stem canker; Black scurf; Powdery scab; Rhizoctonia solani; Spongospora subterranea; Streptomyces scabiei

272. Cooking kinetics of potato tubers determined by vibration techniques/Jiri Blahovec, Shinichiro Kuroki, Naoki Sakurai
Food Research International, Volume 40, Issue 5, June 2007, p. 576-584, ISSN 0963-9969

Keywords: Potato; Frequency; Resonance; Cooking; Kinetics; Laser-Doppler

273. Correlation between the compositional and pasting properties of various potato starches/I.S.M. Zaidul ...[et al.]
Food Chemistry, Volume 105, Issue 1, 2007, p. 164-172, ISSN 0308-8146

Keywords: Potato starches; Compositional properties; Pasting properties; Correlations

274. Crop-yield/water-use production functions of potatoes (*Solanum tuberosum*, L.) grown under differential nitrogen and irrigation treatments in a hot, dry climate/T.C. Ferreira, D.A. Goncalves
Agricultural Water Management, Volume 90, Issues 1-2, 24 May 2007, p. 45-55, ISSN 0378-3774

Keywords: Irrigation; Water-use; Production functions; Potatoes; Nitrogen; Hot dry climate; N.E. Portugal

275. Cytochemical immuno-localization of allene oxide cyclase, a jasmonic acid biosynthetic enzyme, in developing potato stolons /Ana Cenzano, Guillermina Abdala, Bettina Hause
Journal of Plant Physiology, Volume 164, Issue 11, 9 November 2007, p. 1449-1456, ISSN 0176-1617

Keywords: Allene oxide cyclase; Jasmonic acid; Lipoxygenase; Potato stolons

276. Degradation kinetics and colour of anthocyanins in aqueous extracts of purple- and red-flesh potatoes (*Solanum tuberosum* L.)/L. Fernando Reyes, L. Cisneros-Zevallos, *Food Chemistry*, Volume 100, Issue 3, 2007, p. 885-894, ISSN 0308-8146

Keywords: Anthocyanins; Potatoes; Aqueous extracts; Stability; Colour; Kinetics

277. Developmental modulation of inulin accumulation in storage organs of transgenic maize and transgenic potato/Johan M. Stoop ...[et al.]

Plant Science, Volume 173, Issue 2, August 2007, p. 172-181, ISSN 0168-9452

Keywords: Fructan; Inulin; Developmental regulation; Transgenic maize and potato

278. Differentiation of Potato virus Y strains using improved sets of diagnostic PCR-primers/Jorg Schubert, Victoria Fomitcheva, Joana Sztangret-Wisniewska

Journal of Virological Methods, Volume 140, Issues 1-2, March 2007, p. 66-74, ISSN 0166-0934

Keywords: Potato virus Y; RT-PCR; Strains; Differentiation; Detection; Genome organisation

279. Differentiation of *Streptomyces* spp. which cause potato scab disease on the basis of partial rpoB gene sequences/Ho-Suk Mun *Systematic and Applied Microbiology*, Volume 30, Issue 5, 30 July 2007, p. 401-407, ISSN 0723-2020

Keywords: Streptomyces spp.; rpoB gene; Potato scab; Differentiation

280. Effect of autumn ridging and inter-row subsoiling on potato tuber yield and quality on a sandy soil in Denmark/Christian Bugge Henriksen, Jens Peter Molgaard, Jesper Rasmussen
Soil and Tillage Research, Volume 93, Issue 2, April 2007, p. 309-315, ISSN 0167-1987

Keywords: Autumn ridging; Inter-row subsoiling; Reduced irrigation; Solanum tuberosum; Black scurf; Common scab; Organic farming

281. Effect of different N and K sources on tuber nutrient uptake, total and graded yield of potatoes (*Solanum tuberosum* L.) for processing/T. Haase, C. Schuler, J. He[ss]

European Journal of Agronomy, Volume 26, Issue 3, April 2007, p. 187-197, ISSN 1161-0301

Keywords: Potato; Potassium; Nitrogen; Mineral fertilizer; Manure; Organic agriculture; Yield; Processing

282. Effect of dimensions on the cooling rate of whole potatoes applying transfer functions/Mariela Glavina, Karina Di Scala, Carlos del Valle

Food Science and Technology, Volume 40, Issue 10, December 2007, p. 1694-1697, ISSN 0023-6438

Keywords: Transfer function; First-order system; Cooling process; Potatoes

283. Effect of drip tape placement depth and irrigation level on yield of potato/Neelam Patel, T.B.S. Rajput

Agricultural Water Management, Volume 88, Issues 1-3, 16 March 2007, p. 209-223, ISSN 0378-3774

Keywords: Potato; Subsurface drip irrigation; Depth of placement of drip tape; Irrigation

284. Effect of drying conditions on the quality of vacuum-microwave dried potato cubes/Joanna Bondaruk, Marek Markowski, Wioletta Blaszcak
Journal of Food Engineering, Volume 81, Issue 2, July 2007, p. 306-312, ISSN 0260-8774
Keywords: Vacuum-microwave drying; Potatoes; Quality
285. Effect of low-dose [gamma]-irradiation on the shelf life and quality characteristics of minimally processed potato cubes under modified atmosphere packaging/Revathy Baskaran ...[et al.]
Radiation Physics and Chemistry, Volume 76, Issue 6, June 2007, p. 1042-1049, ISSN 0969-806X
Keywords: Minimally processed potatoes; Optimization; Response surface methodology; Central composite rotatable design; [gamma]-irradiation
286. Effect of various polyols and polyol contents on physical and mechanical properties of potato starch-based films /Riku A. Talja ...[et al.]
Carbohydrate Polymers, Volume 67, Issue 3, 1 February 2007, p. 288-295, ISSN 0144-8617
Keywords: Potato starch; Edible film; Water sorption; Water vapor permeability; Mechanical properties; Glass transition temperature
287. Effects of combined pretreatments on drying kinetics and quality of potato chips undergoing low-pressure superheated steam drying/Phet Pimpaporn, Sakamon Devahastin, Naphaporn Chiewchan
Journal of Food Engineering, Volume 81, Issue 2, July 2007, p. 318-329, ISSN 0260-8774
Keywords: Blanching; Chemical pretreatments; Combined pretreatments; Colors; Freezing; Microstructure; Texture

288. Effects of irrigation and straw mulch on water use and tuber yield of potato in eastern India /Gouranga Kar, Ashwani Kumar
Agricultural Water Management, Volume 94, Issues 1-3, 16 December 2007, p. 109-116, ISSN 0378-3774

Keywords: Potato; Soil moisture; Soil temperature; Intercepted photosynthetically active radiation; Mulching

289. Effects of oils and frying temperatures on the texture and fat content of potato crisps/A. Kita, G. Lisinska, G. Golubowska,
Food Chemistry, Volume 102, Issue 1, 2007, p. 1-5, ISSN 0308-8146

Keywords: Texture; Fat content; Potato crisps; Frying fat; Frying temperature

290. Effects of partial root-zone drying on yield, tuber size and water use efficiency in potato under field conditions/Ali Shahnazari
Field Crops Research, Volume 100, Issue 1, 4 January 2007, p. 117-124, ISSN 0378-4290

Keywords: Partial root-zone irrigation; Soil water distribution; *Solanum tuberosum L*

291. Effects of pregelatinized vs. native potato starch on intestinal weight and stomach lesions of pigs housed in barren pens or on straw bedding/J.E. Bolhuis ...[et al.]

Livestock Science, Volume 109, Issues 1-3, 15 May 2007, p. 108-110, ISSN 1871-1413

Keywords: Fermentable carbohydrates; Gastric lesions; Environmental enrichment; Visceral weights

292. Effects of raw potato starch and live weight on fat and plasma skatole, indole and androstenone levels measured by different methods in entire male pigs/G. Chen ...[et al.]
Food Chemistry, Volume 101, Issue 2, 2007, p. 439-448, ISSN 0308-8146,
Keywords: Skatole; Indole; Androstenone; Analytical methods; Raw potato starch; Live weight
293. Effects of soil matric potential on potato growth under drip irrigation in the North China Plain/ Feng-Xin Wang,
Agricultural Water Management, Volume 88, Issues 1-3, 16 March 2007, p. 34-42, ISSN 0378-3774
Keywords: Drip irrigation; Potato growth; Soil matric potential; Tensiometer
294. Effects of the application of anti-browning substances on the metabolic activity and sugar composition of fresh-cut potatoes/Pietro Rocculi ...[et al.]
Postharvest Biology and Technology, Volume 43, Issue 1, January 2007, p. 151-157, ISSN 0925-5214
Keywords: Fresh-cut potatoes; Ascorbic acid; Citric acid; l-Cysteine; Isothermal calorimetry
295. Effects of treatment pressure, holding time, and starch content on gelatinization and retrogradation properties of potato starch-water mixtures treated with high hydrostatic pressure/Kiyoshi Kawai, Ken Fukami, Kazutaka Yamamoto
Carbohydrate Polymers, Volume 69, Issue 3, 25 June 2007, p. 590-596, ISSN 0144-8617
Keywords: Potato starch; Gelatinization; Retrogradation; High hydrostatic pressure; Differential scanning calorimetry

296. Estimation of potato moisture diffusivity from convective drying kinetics with correction for shrinkage/L. Hassini ...[et al.]
Journal of Food Engineering, Volume 79, Issue 1, March 2007, p. 47-56, ISSN 0260-8774
Keywords: Convective drying; Mass diffusion coefficient; Shrinkage; Potato
297. Ethylene responsive element binding protein 1 (StEREBP1) from *Solanum tuberosum* increases tolerance to abiotic stress in transgenic potato plants /Hye Eun Lee ...[et al.]
Biochemical and Biophysical Research Communications, Volume 353, Issue 4, 23 February 2007, p. 863-868, ISSN 0006-291X
Keywords: Ethylene responsive element binding protein; Cold stress; GCC-box; *Solanum tuberosum* L.; AP2/ERF domain
298. Evaluation of a novel host plant volatile-based attracticide for management of Colorado potato beetle, *Leptinotarsa decemlineata* (Say)/J.W. Martel, A.R. Alford, J.C. Dickens
Crop Protection, Volume 26, Issue 6, June 2007, p. 822-827, ISSN 0261-2194
Keywords: Semiochemicals; Attracticide; Colorado potato beetle; Plant volatiles
299. Field efficacy of novaluron for control of Colorado potato beetle (Coleoptera: Chrysomelidae) on potato/G.C. Cutler ...[et al.]
Crop Protection, Volume 26, Issue 5, May 2007, p. 760-767, ISSN 0261-2194
Keywords: Colorado potato beetle; *Leptinotarsa decemlineata*; Novaluron; Imidacloprid; Potato

300. Fodder and tuber yields, and fodder quality of sweet potato cultivars at different maturity stages in the West African humid forest and savanna zones/A. Larbi ...[et al.]
Animal Feed Science and Technology, Volume 135, Issues 1-2, 15 May 2007, p. 126-138, ISSN 0377-8401
Keywords: Sweet potato; Fodder; Tuber; Crude protein; Rumen degradation; Dual-purpose
301. Fracture behaviour of potato samples (cv. Desiree) under uniaxial compression/W. Canet, M.D. Alvarez, M.J. Gil
Journal of Food Engineering, Volume 82, Issue 4, October 2007, p. 427-435, ISSN 0260-8774
Keywords: Fracture parameters; Flatness; Displacement rate; Lubrication; Modelling; Solanum tuberosum L.
302. Functional analysis of mutations in expressed acetylcholinesterase that result in azinphosmethyl and carbofuran resistance in Colorado potato beetle /Hyo Jeong Kim, Kyong Sup Yoon, J. Marshall Clark
Pesticide Biochemistry and Physiology, Volume 88, Issue 2, June 2007, p. 181-190, ISSN 0048-3575
Keywords: Colorado potato beetle; Organophosphate resistance; Carbofuran resistance; AChE insensitivity
303. G1-1 and LeG1-1/LeG1-2 genes are involved in meristem activation during breakage of dormancy and early germination in potato tubers and tomato seeds/Caterina Agrimonti ...[et al.]
Plant Science, Volume 173, Issue 5, November 2007, p. 533-541, ISSN 0168-9452
Keywords: Dormancy; Sink-source Transition; Solanum tuberosum; Solanum lycopersicum; Meristem activation

304. Glucoamylase production by the marine yeast *Aureobasidium pullulans* N13d and hydrolysis of potato starch granules by the enzyme/Haifeng Li ...[et al.]
Process Biochemistry, Volume 42, Issue 3, March 2007, p. 462-465, ISSN 1359-5113
Keywords: *Aureobasidium pullulans*; Marine yeast; Glucoamylase; Potato starch granules
305. High salinity and drought act on an organ-dependent manner on potato glutamine synthetase expression and accumulation/Jorge Teixeira, Susana Pereira
Environmental and Experimental Botany, Volume 60, Issue 1, May 2007, p. 121-126, ISSN 0098-8472
Keywords: Glutamine synthetase (GS); Salinity; Drought; Potato; *Solanum tuberosum* L.
306. High temperature short time air puffed ready-to-eat (RTE) potato snacks: Process parameter optimization/A. Nath, P.K. Chattopadhyay, G.C. Majumdar
Journal of Food Engineering, Volume 80, Issue 3, June 2007, p. 770-780, ISSN 0260-8774
Keywords: Potatoes; Puffing; High temperature short time; Snack; Quality; Optimization
307. High-performance liquid chromatographic determination of glycoalkaloids in potatoes from conventional, integrated, and organic crop systems/Pedro Abreu ...[et al.]
Food Control, Volume 18, Issue 1, January 2007, p. 40-44, ISSN 0956-7135
Keywords: Potatoes; *Solanum tuberosum*; Glycoalkaloids; [alpha]-solanine; [alpha]-chaconine; HPLC; Conventional agriculture; Integrated agriculture; Organic agriculture

308. Impact of elevated O₃ and CO₂ exposure on potato (*Solanum tuberosum* L. cv. Bintje) tuber macronutrients (N, P, K, Mg, Ca) /K. Piikki, V. Vorne, K. Ojanpera, H. Pleijel
Ecosystems & Environment, Volume 118, Issues 1-4, January 2007, p. 55-64, ISSN 0167-8809
Keywords: Carbon dioxide; Macronutrients; Ozone; Potato; *Solanum tuberosum*
309. Impact of plant species grown as monocultures on sporulation and root colonization by native arbuscular mycorrhizal fungi in potato/Dharam P. Bharadwaj, Per-Olof Lundquist, Sadhna Alstrom,
Applied Soil Ecology, Volume 35, Issue 1, January 2007, p. 213-225, ISSN 0929-1393
Keywords: Arbuscular mycorrhiza; BIODEPTH; *Festuca ovina*; *Glomus mosseae*; *Leucanthemum vulgare*; Monoculture; *Solanum tuberosum*
310. Improvement of potato pulp protein hydrolyzation process by the combination of protease enzyme systems/Chulaporn Kamnerdpetch ...[et.al.]
Enzyme and Microbial Technology, Volume 40, Issue 4, 5 March 2007, p. 508-514, ISSN 0141-0229
Keywords: Potato pulp; Endoprotease; Exopeptidase; Alcalase; Flavourzyme; Novo Pro-D; Corolase; Enzyme combination; Degree of hydrolysis; Amino acids
311. Improving the nutritive value of tubers: Elevation of cysteine and glutathione contents in the potato cultivar White Lady by marker-free transformation/Ibolya Stiller
Journal of Biotechnology, Volume 128, Issue 2, 1 February 2007, p. 335-343, ISSN 0168-1656
Keywords: Cysteine; Glutathione; Metabolite analysis; Serine acetyltransferase; *Solanum tuberosum*; Transgenic plants

312. Induction of the cholesterol biosynthesis pathway in differentiated Caco-2 cells by the potato glycoalkaloid [alpha]-chaconine/Tafadzwa Mandimika ...[et al.]
Food and Chemical Toxicology, Volume 45, Issue 10, October 2007, p. 1918-1927, ISSN 0278-6915
Keywords: [alpha]-Chaconine; Cell membrane disruption; Cholesterol biosynthesis; DNA microarrays; Glycoalkaloids; Potatoes
313. Influence of conservation tillage and glyphosate on soil structure and organic carbon fractions through the cycle of a 3-year potato rotation in Atlantic Canada/M.R. Carter ...[et al.]
Soil and Tillage Research, Volume 93, Issue 1, March 2007, p. 206-221, ISSN 0167-1987
Keywords: Potato rotation; Glyphosate; Soil biochemical and biological properties; Conservation tillage; Sandy loam; Atlantic Canada
314. Ingestion of potato starch decreases chymotrypsin but does not affect trypsin, amylase, or lipase activity in the pancreas in rats /Hitoshi Mineo
Nutrition Research, Volume 27, Issue 2, February 2007, p. 113-118, ISSN 0271-5317
Keywords: Potato starch; Protease; Trypsin; Chymotrypsin; Pancreas; Rat
315. Mathematical modeling of laser based potato cutting and peeling/A. Carlos O. Ferraz ...[et al.]
Biosystems, Volume 90, Issue 3, November-December 2007, p. 602-613, ISSN 0303-2647
Keywords: Laser cutting; Laser modeling; Potato cutting; Potato peeling; Biological material

316. Membrane associated metalloprotease cleaves Cry3Aa *Bacillus thuringiensis* toxin reducing pore formation in Colorado potato beetle brush border membrane vesicles/C. Rausell...[et al.]
Biochimica et Biophysica Acta (BBA) - Biomembranes, Volume 1768, Issue 9, September 2007, P. 2293-2299, ISSN 0005-2736
Keywords: ***Bacillus thuringiensis*; Colorado potato beetle; Insecticidal toxin; Protease; Cry3Aa proteolysis; Pore formation**
317. Metastable phases during high-pressure-low-temperature processing of potatoes and their impact on quality-related parameters/G. Urrutia-Benet, T. Balogh, J. Schneider, D. Knorr
Journal of Food Engineering, Volume 78, Issue 2, January 2007, p. 375-389, ISSN 0260-8774
Keywords: **High pressure; Low temperature; Food quality; Metastable phases; Potatoes; Polyphenoloxidase**
318. Microclimate and potential for late blight development in irrigated potato/O.M. Olanya...[et al.]
Crop Protection, Volume 26, Issue 9, September 2007, p. 1412-1421, ISSN 0261-2194
Keywords: **Irrigation treatments; Microclimate; Potato; Late blight potential; Simulation model; Maine**
319. Minimally processed potatoes: Part 2. Effects of high oxygen partial pressures in combination with ascorbic and citric acid on loss of some quality traits/S. Limbo, L. Piergiovanni
Postharvest Biology and Technology, Volume 43, Issue 2, February 2007, p. 221-229, ISSN 0925-5214
Keywords: **Minimally processed potatoes; High oxygen packaging; Ascorbic acid; Citric acid; Central Composite Design; Respiration rate; Volatile compounds; Flexible packaging**

320. Modeling changes in rheological properties of potatoes during storage under constant and variable conditions/W.K. Solomon, V.K. Jindal
Food Science and Technology, Volume 40, Issue 1, January 2007, p. 170-178, ISSN 0023-6438
Keywords: Potato; Storage; Rheology; Modeling
321. Modeling of textural changes during drying of potato slices /Elizabeth Troncoso, Franco Pedreschi
Journal of Food Engineering, Volume 82, Issue 4, October 2007, p. 577-584, ISSN 0260-8774
Keywords: Texture; Kinetics; Drying; Potato slices
322. Modeling the effect of blanching conditions on the texture of potato strips/Eric Zhiqiang Liu, Martin G. Scanlon
Journal of Food Engineering, Volume 81, Issue 2, July 2007, p. 292-297, ISSN 0260-8774
Keywords: Potato; French fry; Blanching; Texture; Specific gravity; Solids content
323. Modelling the area expansion ratio on uniaxial compression of cylindrical potato samples/W. Canet, M.D. Alvarez, M.J.
Journal of Food Engineering, Volume 79, Issue 2, March 2007, p. 567-576, ISSN 0260-8774
Keywords: Area expansion ratio; Failure; Lubrication; Flatness; Deformation rate; Regression; Solanum tuberosum L
324. Nitric oxide promotes the wound-healing response of potato leaflets/Ramiro Paris, Lorenzo Lamattina, Claudia A.
Plant Physiology and Biochemistry, Volume 45, Issue 1, January 2007, p. 80-86, ISSN 0981-9428
Keywords: Callose; Healing; Nitric oxide; PAL; Solanum tuberosum; Wounding

325. Non-destructive estimation of potato leaf chlorophyll from canopy hyperspectral reflectance using the inverted PROSAIL model /Elizabeth J. Botha ...[et al.]
International Journal of Applied Earth Observation and Geoinformation, Volume 9, Issue 4, December 2007, p. 360-374, ISSN 0303-2434
Keywords: **Solanum tuberosum L.; PROSAIL radiative transfer model; Canopy reflectance; Leaf chlorophyll; LAI**
326. Northward colonisation of the Andes by the potato cyst nematode during geological times suggests multiple host-shifts from wild to cultivated potatoes/Damien Picard, Thierry Sempere, Olivier Plantard,
Molecular Phylogenetics and Evolution, Volume 42, Issue 2, February 2007, p. 308-316, ISSN 1055-7903
Keywords: **Phylogeography; South America; Andean uplift; Cytochrome b; Plant-parasitic nematode; Globodera pallida; Solanum tuberosum**
327. Oil partition in pre-treated potato slices during frying and cooling /Marisol Duran ...[et al.]
Journal of Food Engineering, Volume 81, Issue 1, July 2007, p. 257-265, ISSN 0260-8774
Keywords: **Oil absorption; Potato slices; Kinetics; Model; Oil partition; Frying; Cooling; NaCl; HMPC**
328. Optimization of microwave frying of potato slices by using Taguchi technique/Mecit Halil Oztop, Serpil Sahin, Gulsum Sumnu
Journal of Food Engineering, Volume 79, Issue 1, March 2007, p. 83-91, ISSN 0260-8774
Keywords: **Potato; Microwave frying; Taguchi technique**

329. Optimization of osmotic dehydration of potato using response surface methodology/Ismail Eren, Figen Kaymak-Ertekin
Journal of Food Engineering, Volume 79, Issue 1, March 2007, p. 344-352, ISSN 0260-8774
Keywords: Osmotic dehydration; Potato; Response surface methodology; Model fitting; Optimization
330. Optimization of oven toasting for improving crispness and other quality attributes of ready to eat potato-soy snack using response surface methodology/A. Nath, P.K. Chattopadhyay
Journal of Food Engineering, Volume 80, Issue 4, June 2007, p. 1282-1292, ISSN 0260-8774
Keywords: Optimization; Oven toasting; Crispness; Snack; Quality
331. Oral immunogenicity of potato-derived HBsAg middle protein in BALB/c mice/Jung-Won Youm ...[et al.]
Vaccine, Volume 25, Issue 3, 5 January 2007, p. 577-584, ISSN 0264-410X
Keywords: Oral immunization; Plant-derived vaccine; PreS2 + S regions; HBV
332. Ozone risk assessment for agricultural crops in Europe: Further development of stomatal flux and flux-response relationships for European wheat and potato/H. Pleijel ...[et al.]
Atmospheric Environment, Volume 41, Issue 14, May 2007, p. 3022-3040, ISSN 1352-2310
Keywords: Flux; Ozone; Solanum tuberosum; Stomatal conductance; Triticum aestivum; Yield-response relationship

333. Parasitoid Copidosoma koehleri provides limited control of the potato tuber moth, Phthorimaea operculella, in stored potatoes/Tamar Keasar, Adi

Biological Control, Volume 42, Issue 1, July 2007, p. 55-60, ISSN 1049-9644

Keywords: **Phthorimaea operculella; Copidosoma koehleri; Biological control; Potato; Traditional storage**

334. Physical properties of pre-treated potato chips/Franco Pedreschi
Journal of Food Engineering, Volume 79, Issue 4, April 2007, p. 1474-1482, ISSN 0260-8774

Keywords: **Potato chips; Frying; color; NaCl soaking; Blanching; Texture; Oil absorption; Water content**

335. Physicochemical properties of dry matter and starch from potatoes grown in Canada/Qiang Liu...[et al.]

Food Chemistry, Volume 105, Issue 3, 2007, p. 897-907, ISSN 0308-8146

Keywords: **Physicochemical properties; Potato dry matter; Potato starch; Chemical compositions; Morphology; Resistant starch in vitro; Gelatinization; Retrogradation; Pasting; Chain length**

336. Physico-chemical, rheological and structural properties of fractionated potato starches/Lovedeep Kaur...[et al.]

Journal of Food Engineering, Volume 82, Issue 3, October 2007, p. 383-394, ISSN 0260-8774

Keywords: **Solanum tuberosum; Potato cultivars; Starch; Physico-chemical; Granule size; Pasting; Rheological; Texture profile analysis; Digestibility**

337. Physicochemical, thermal and pasting properties of starch separated from [gamma]-irradiated and stored potatoes/Rajarathnam Ezekiel ...[et al]
Food Chemistry, Volume 105, Issue 4, 2007, p. 1420-1429, ISSN 0308-8146
Keywords: Potato starch; Storage temperature; [gamma]-Irradiation; Morphology, Pasting properties; Amylose; Phosphorus; Thermal properties
338. Physicochemical, thermal and pasting properties of starches separated from different potato cultivars grown at different locations/Amritpal Kaur ...[et al.]
Food Chemistry, Volume 101, Issue 2, 2007, p. 643-651, ISSN 0308-8146,
Keywords: Potato starch; Location; Amylose; Thermal; Rapid visco analysis; Swelling
339. Population dynamics of potato cyst nematodes/John F. Moxnes, Kjell Hausken
Ecological Modelling, Volume 207, Issues 2-4, 10 October 2007, p. 339-348, ISSN 0304-3800
Keywords: Cysts; Eggs; Proliferation; Differential equations; Potatoes; Population dynamics; Nematodes; *Globodera rostochiensis*; *Globodera pallida*
340. Potato aspartic proteases (StAPs) exert cytotoxic activity on bovine and human spermatozoa/Andreina Cesari ...[et al.]
Fertility and Sterility, Volume 88, Issue 4, Supplement 1, October 2007, P. 1248-1255, ISSN 0015-0282
Keywords: *Solanum tuberosum* aspartic proteinases; sperm; immobilization; bovine; human; spermicidal agents; antimicrobial proteins

341. Potato glycosterol rhamnosyltransferase, the terminal step in triose side-chain biosynthesis/ Kent F. McCue ...[et al.]
Phytochemistry, Volume 68, Issue 3, February 2007, p. 327-334,
ISSN 0031-9422

Keywords: *Solanum tuberosum*; Solanaceae; Potato;
Molecular genetics; Steroidal glycoalkaloids;
[beta]-solanine/[beta]-chaconine
rhamnosyltransferase; Chaconine; Solanine;
Sgt3

342. Potato tuber yield and quality and soil inorganic nitrogen as affected by timing of ridging with and without catch crops/Christian Bugge Henriksen ...[et al.]

Soil and Tillage Research, Volume 94, Issue 1, May 2007, p. 36-46, ISSN 0167-1987

Keywords: Ridging; Timing; Catch crops; Soil inorganic nitrogen; Leaching; *Solanum tuberosum*

343. Protein enrichment of potato processing waste through yeast fermentation/P. Gelinas, J. Barrette

Bioresource Technology, Volume 98, Issue 5, March 2007, p. 1138-1143, ISSN 0960-8524

Keywords: Potato chips; Protein enrichment; Solid-state fermentation; Yeast; Starch waste waters

344. Pulsed electric field enhanced drying of potato tissue/Nikolai I. ...[et al.]

Journal of Food Engineering, Volume 78, Issue 2, January 2007, p. 606-613, ISSN 0260-8774

Keywords: Drying; Temperature dependence; Pulsed electric field; Diffusion coefficient; Potato

345. Reducing oil content of fried potato crisps considerably using a 'sweet' pre-treatment technique/T.T. Mai Tran, Xiao Dong Chen
Journal of Food Engineering, Volume 80, Issue 2, May 2007, p. 719-726, ISSN 0260-8774

Keywords: Pre-drying; Sugar dipping; Oil content; Moisture content; Shrinkage; Potato crisps; Frying

346. Reduction of divinyl ether-containing polyunsaturated fatty acids in transgenic potato plants/Lennart Eschen-Lippold ...[et al.]

Phytochemistry, Volume 68, Issue 6, March 2007, p. 797-801, ISSN 0031-9422

Keywords: Solanum tuberosum; Phytophthora infestans; RNA interference; Oxylipin; Lipoxygenase pathway

347. Reproductive failure of Heterorhabditis marelatus in the Colorado potato beetle: Evidence of stress on the nematode symbiont Photorhabdus temperata and potential interference from the enteric bacteria of the beetle /Michael B. Blackburn...[et.al.]

Biological Control, Volume 42, Issue 2, August 2007, p. 207-215, ISSN 1049-9644

Keywords: Colorado potato beetle; Leptinotarsa decemlineata; Heterorhabditis marelatus; Photorhabdus temperata; Serratia marcescens; Leptinotarsin

348. Retention of folates in cooked, stored and reheated peas, broccoli and potatoes for use in modern large-scale service systems /Tonje Holte Stea

Food Chemistry, Volume 101, Issue 3, 2007, p. 1095-1107, ISSN 0308-8146

Keywords: Folate; Vegetables; Food processing; Food analysis; High-performance liquid chromatography; Large-scale service systems

349. Roles of glycosylation on the antifungal activity and apoplast accumulation of StAPs (*Solanum tuberosum* aspartic proteases)/Mariana R. Pagano ...[et al.]
International Journal of Biological Macromolecules, Volume 41, Issue 5, 1 December 2007, p. 512-520, ISSN 0141-8130
Keywords: Glycosylation; Secretion; Aspartic proteases; *Solanum tuberosum*
350. RVA analysis of mixtures of wheat flour and potato, sweet potato, yam, and cassava starches/I.S.M. Zaidul ...[et al.]
Carbohydrate Polymers, Volume 69, Issue 4, 2 July 2007, p. 784-791, ISSN 0144-8617
Keywords: Wheat flour; Potato starch; Sweet potato starch; Yam starch; Cassava starch; Mixture; Pasting properties
351. RVA study of mixtures of wheat flour and potato starches with different phosphorus contents/I.S.M. Zaidul ...[et al]
Food Chemistry, Volume 102, Issue 4, 2007, p. 1105-1111, ISSN 0308-8146
Keywords: Potato starch; Phosphorus content; Wheat flour; Mixtures; Pasting properties
352. Saccharification of potato starch in an ultrafiltration reactor/Anna Grzeskowiak-Przywecka, Lucyna Slominska,
Journal of Food Engineering, Volume 79, Issue 2, March 2007, p. 539-545, ISSN 0260-8774
Keywords: Potato starch; Maltose hydrolysate; Ultrafiltration reactor; Ceramic membrane

353. Selenium speciation in foods: Preliminary results on potatoes/Tommaso Ferri, Gabriele Favero, Marco Frasconi, *Microchemical Journal*, Volume 85, Issue 2, April 2007, p. 222-227, ISSN 0026-265X

Keywords: Food analysis; Selenium speciation; Differential pulse cathodic stripping voltammetry; Selenium in potato

354. Separation and determination of acrylamide in potato chips by micellar electrokinetic capillary chromatography/Xun Zhou ...[et al.]

Talanta, Volume 71, Issue 4, 15 March 2007, p. 1541-1545, ISSN 0039-9140

Keywords: Acrylamide; MEKC; Potato chips; Quantification; Capillary electrophoresis

355. Simultaneous detection of potato viruses, PLRV, PVA, PVX and PVY from dormant potato tubers by TaqMan(R) real-time RT-PCR/Bright O. Agindotan, Patrick J. Shiel, Philip H. Berger *Journal of Virological Methods*, Volume 142, Issues 1-2, June 2007, p. 1-9, ISSN 0166-0934

Keywords: Multiple virus detection; Potato tubers; TaqMan(R); Real-time RT-PCR; Multiplex detection

356. Soaking in a NaCl solution produce paler potato chips/Nathalie Santis...[et.al.]

Food Science and Technology, Volume 40, Issue 2, March 2007, p. 307-312, ISSN 0023-6438

Keywords: Potato; Slices; Frying; Chips; Color; NaCl soaking; Blanching

357. Some physical and nutritional characteristics of genetically modified potatoes varying in amylose/amyllopectin ratios/Malin E. Karlsson...[et al.]
Food Chemistry, Volume 100, Issue 1, 2007, p. 136-146, ISSN 0308-8146
Keywords: **Solanum tuberosum; Potato; Starch; Amylose; Amylopectin; Resistant starch; Microscopy**
358. State diagram of potato starch-water mixtures treated with high hydrostatic pressure/Kiyoshi Kawai, Ken Fukami, Kazutaka Yamamoto
Carbohydrate Polymers, Volume 67, Issue 4, 19 February 2007, p. 530-535, ISSN 0144-8617
Keywords: **High hydrostatic pressure; Potato starch; Gelatinization; Retrogradation; State diagram**
359. Steady state CFD modeling of airflow, heat transfer and moisture loss in a commercial potato cold store/M.K. Chourasia, T.K. Goswami
International Journal of Refrigeration, Volume 30, Issue 4, June 2007, p. 672-689, ISSN 0140-7007
Keywords: **Refrigerated warehouse; Potato; Air flow; Mass transfer; Heat transfer; Computational fluid dynamics; Modelling; Entrepot frigorifique; Pomme de terre; Ecoulement d'air; Transfert de masse; Transfert de chaleur; Analyse par dynamique des fluides; Modelisation**
360. Structure of pectin in relation to abnormal hardness after cooking in pre-peeled, cool-stored potatoes/Lene Kaaber...[et.al.]
Food Science and Technology, Volume 40, Issue 5, June 2007, p. 921-929, ISSN 0023-6438,
Keywords: **Potato; Pectin; Texture; NSP; Branching**

361. Survey of acrylamide precursors in Irish ware potatoes and acrylamide levels in French fries /Nigel P. Brunton ...[et al.]
Food Science and Technology, Volume 40, Issue 9, November 2007, p. 1601-1609, ISSN 0023-6438

Keywords: Acrylamide; Potatoes; Ware; Domestic; French fries

362. Survival of *Shigella sonnei* on smooth tomato surfaces, in potato salad and in raw ground beef/Benjamin R. Warren, Hyun-Gyun Yuk, Keith R. Schneider

International Journal of Food Microbiology, Volume 116, Issue 3, 30 May 2007, p. 400-404, ISSN 0168-1605

Keywords: Shigella sonnei; Survival; Tomato; Potato salad; Ground beef

363. Testing properties of potato starch from different scales of isolations--A ringtest/Bente Wischmann...[et al.]

Journal of Food Engineering, Volume 79, Issue 3, April 2007, p. 970-978, ISSN 0260-8774,

Keywords: Potato starch isolation; Ringtest; Granule size distribution; RVA; DSC; Pulse-NMR; Rheology; Food model

364. Thermal, pasting, and gelling properties of wheat and potato starches in the presence of sucrose, glucose, glycerol, and hydroxypropyl [beta]-cyclodextrin/Anil Gunaratne, Somathilaka Ranaweera, Harold Corke

Carbohydrate Polymers, Volume 70, Issue 1, 2 August 2007, P. 112-122, ISSN 0144-8617

Keywords: Polyhydroxy compounds; Starch properties; Amylose-lipid complex

365. Tillage erosion within potato production in Atlantic Canada: II: Erosivity of primary and secondary tillage operations/K.H.D. Tiessen...[et al.]
Soil and Tillage Research, Volume 95, Issues 1-2, September 2007, p. 320-331, ISSN 0167-1987
Keywords: Tillage erosion; Tillage erosivity; Primary tillage; Secondary tillage; Conventional tillage; Conservation tillage; Potato production; Atlantic Canada
366. Tillage translocation and tillage erosivity by planting, hillling and harvesting operations common to potato production in Atlantic Canada/K.H.D. Tiessen ...[et al.]
Soil and Tillage Research, Volume 97, Issue 2, December 2007, p. 123-139, ISSN 0167-1987,
Keywords: Tillage erosion; Potato production; Planting; Hilling; Harvesting; Atlantic Canada
367. Toxicity of monoterpenes against larvae and adults of Colorado potato beetle, *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae /Saban Kordali, Memis Kesdek, Ahmet Cakir)
Industrial Crops and Products, Volume 26, Issue 3, October 2007, p. 278-297, ISSN 0926-6690
Keywords: Colorado potato beetle; *Leptinotarsa decemlineata*; Monoterpenes; Essential oils; 1,8-Cineole; Fenchone; Pinenes; [gamma]-Terpinene
368. Use of the alditol acetate derivatisation for the analysis of reducing sugars in potato tubers/N.P. Brunton, T.R. Gormley, B. Murray
Food Chemistry, Volume 104, Issue 1, 2007, p. 398-402, ISSN 0308-8146
Keywords: Analysis; Gas chromatography; Reducing sugars; Alditol acetate; Potato

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369. Agrophysiological characterisation and parametrisation of Andean tubers: Potato (*Solanum* sp.), oca (*Oxalis* *tuberosa*), isano (*Tropaeolum* *tuberousum*) and papalisa (*Ullucus* *tuberosus*)/Bruno Condori ...[et al.]
European Journal of Agronomy, Volume 28, Issue 4, May 2008, 526-540, ISSN 1161-0301,
Keywords: Native potato; Andean tuber; Growth analysis; Light use efficiency
370. Application of NIR and MIR spectroscopy in quality control of potato chips /Cecilia Shiroma, Luis Rodriguez-Saona,
Journal of Food Composition and Analysis, 26 September 2008, ISSN 0889-1575
Keywords: FT-NIR spectroscopy; FT-MIR spectroscopy; Fat content; Moisture content; Potato chips; Potato chip quality; Food composition
371. Arbuscular mycorrhizal fungal spore-associated bacteria affect mycorrhizal colonization/Dharam Parkash Bharadwaj ...[et al.]
Soil Biology and Biochemistry, Volume 40, Issue 10, October 2008, p. 2494-2501, ISSN 0038-0717
Keywords: Arbuscular mycorrhizal fungi; Glomus; Plant pathogen; Potato; Root colonization; Spore-associated bacteria
372. Ascorbic acid concentration of native Andean potato varieties as affected by environment, cooking and storage/G. Burgos... [et al.]
Journal of Food Composition and Analysis, 29 August 2008, ISSN 0889-1575
Keywords: Potato; *Solanum tuberosum* L.; Ascorbic acid; Vitamin C; Cooking; Storage; Genotype; Andean

373. Biological control of potato Verticillium wilt under controlled and field conditions using selected bacterial antagonists and plant extracts/A.K. Uppal ...[et al.]
Biological Control, Volume 44, Issue 1, January 2008, p. 90-100, ISSN 1049-9644
Keywords: **Verticillium dahliae Kleb.; Solanum tuberosum L.; Verticillium wilt; Biocontrol; Bacteria; Plant extract; Growth room conditions; Field trials; Soil borne diseases**
374. Calibration procedure for a potato crop growth model using information from across Europe/T. Heidmann ...[et al.]
Ecological Modelling, Volume 211, Issues 1-2, 24 February 2008, p. 209-223, ISSN 0304-3800
Keywords: **Potato growing; Field experiments; Modelling; Daisy; Parameterisation; Calibration; FertOrgaNic; Drip irrigation; Fertigation; Nitrogen fertilisation**
375. Changes in glycoalkaloids content of potatoes destined for consumption /A. Tajner-Czopek, M. Jarych-Szyszka, G. Lisinska, *Food Chemistry*, Volume 106, Issue 2, 15 January 2008, p. 706-711, ISSN 0308-8146
Keywords: **Glycoalkaloids ([alpha]-Solanine; [alpha]-Chaconine); HPLC; Potatoes for consumption; N-fertilization**
376. Changes occurring in potatoes during cooking and reheating as affected by salting and cool or frozen storage - a LF-NMR study /Elisabeth Micklander, Anette K. Thybo, Frans van den Berg, , *Food Science and Technology*, Volume 41, Issue 9, November 2008, p. 1710-1719, ISSN 0023-6438
Keywords: **Potato cooking; Reheating; Salting; LF-NMR; Nuclear magnetic resonance; Gelatinization; Retrogradation; Syneresis**

377. Chemical characterization and functional properties of a potato protein concentrate prepared by large-scale expanded bed adsorption chromatography/Sissel Lokra ...[et al.]
LWT - Food Science and Technology, Volume 41, Issue 6, July 2008, p. 1089-1099, ISSN 0023-6438
Keywords: Spray drying; Atmospheric drying; Potato protein; Denaturation; Emulsion formation; Gel formation
378. Comparison of potato seed tuber yields in beds, pots and hydroponic systems/Ricardo Monteiro Correa...[et.al.]
Scientia Horticulturae, Volume 116, Issue 1, 10 March 2008, p. 17-20, ISSN 0304-4238
Keywords: Solanum tuberosum L.; Tissue culture; Seed tubers; Nutrient film technique
379. Comparison of suitability of SPME, SAFE and SDE methods for isolation of flavor compounds from extruded potato snacks/M. Majcher, H.H. Jelen
Journal of Food Composition and Analysis, 3 December 2008, ISSN 0889-1575
Keywords: Extruded potato snack; Odor-active compound isolation; Flavor; Extraction methods; SPME; SAFE; SDE; GCO; Food composition; Food analysis
380. Detachment of *Listeria innocua* and *Pantoea agglomerans* from cylinders of agar and potato tissue under conditions of Couette flow /Stefano Perni, Elizabeth S. Read, Gilbert Shama
Journal of Food Engineering, Volume 89, Issue 3, December 2008, p.355-359, ISSN 0260-8774
Keywords: Surface shear stress; Plant tissue; Couette flow; Bacterial detachment; Washing processes

381. Differential induction of redox sensitive extracellular phenolic amides in potato/C. Jacyn Baker ...[et al.]
Physiological and Molecular Plant Pathology, Volume 73, Issues 4-5, November 2008, p. 109-115, ISSN 0885-5765
Keywords: Apoplast; Phenolic amides; Tyramine; Pseudomonas syringae; Ralstonia solanacearum; Hydroxycinnamic acid amides; Coumaroyloctopamine; Feruloyloctopamine
382. Differential Space-Time Expression of StLTPb1 Gene Between Resistant and Susceptible Potato Genotypes in Response to Ralstonia solanacearum /Gang GAO
Agricultural Sciences in China, Volume 7, Issue 6, June 2008, p. 713-725, ISSN 1671-2927
Keywords: Solanum tuberosum; nsLTP; Gene expression; Ralstonia solanacearum
383. Distribution of mechanical resistance in potato tuber tissues /Jadwiga Sadowska, Jozef Fornal, Kazimiera Zgorska
Postharvest Biology and Technology, Volume 48, Issue 1, April 2008, p. 70-76, ISSN 0925-5214
Keywords: Mechanical resistance; Puncture test; Potato Tuber
384. DNA damage in potato plants induced by cadmium, ethyl methanesulphonate and [gamma]-rays/Tomas Gichner...[et al.]
Environmental and Experimental Botany, Volume 62, Issue 2, March 2008, 113-119, ISSN 0098-8472
Keywords: Comet assay; Solanum tuberosum L.

385. Economic and environmental impacts of introducing land use policies and rotations on Prince Edward Island potato farms/John Baptist D. Jatoe
Land Use Policy, Volume 25, Issue 3, July 2008, p. 309-319, ISSN 0264-8377
Keywords: Land use regulations; Economic environmental trade-offs; Potato; Crop rotation systems; Environmental quality
386. Effect of processing conditions on the water absorption and texture kinetics of potato/S.E. Cunningham ...[et al.]
Journal of Food Engineering, Volume 84, Issue 2, January 2008, p. 214-223, ISSN 0260-8774
Keywords: Fractional conversion model; Kinetics; Potatoes; Rehydration; Texture degradation
387. Effect of starch retrogradation on texture of potato chips produced by low-pressure superheated steam drying/Runghip Kingcam, Sakamon Devahastin, Naphaporn Chiewchan
Journal of Food Engineering, Volume 89, Issue 1, November 2008, 72-79, ISSN 0260-8774
Keywords: Baking; Blanching; Crystallinity; Drying kinetics; Freezing; Health snack; Pretreatment; Texture; X-ray diffraction
388. Effect of temperature and duration of exposure of potato tuber moth (Lepidoptera: Gelechiidae) in infested tubers to the biofumigant fungus *Muscodor albus* /Lawrence A. Lacey, David R. Horton, Dana C. Jones
Journal of Invertebrate Pathology, Volume 97, Issue 2, February 2008, p. 159-164, ISSN 0022-2011
Keywords: *Muscodor albus*; *Phthorimaea operculella*; Potato tuber moth; Biofumigant; Microbial control

389. Effect of temperature on the efficiency of the thermo- and mesophilic aerobic batch biodegradation of high-strength distillery wastewater (potatoes tillage)/Malgorzata Krzywonos ...[et al.] *Bioresource Technology*, Volume 99, Issue 16, November 2008, p. 7816-7824, ISSN 0960-8524
Keywords: Aerobic biodegradation; Temperature; Potato stillage; Batch process; Bacillus
390. Effects of potato (*Solanum tuberosum* L. cv. Golden valley) protein having antimicrobial activity on the growth performance, and intestinal microflora and morphology in weanling pigs/Z. Jin, ...[et.al.] *Animal Feed Science and Technology*, Volume 140, Issues 1-2, 1 January 2008, p. 139-154, ISSN 0377-8401
Keywords: Antimicrobial activity; Growth performance; Nutrient digestibility; Potato protein (PP); Weanling pigs
391. Effects of protein on crosslinking of normal maize, waxy maize, and potato starches/Jung-Ah Han, James N. BeMiller *Carbohydrate Polymers*, Volume 73, Issue 4, 5 September 2008, 532-540, ISSN 0144-8617
Keywords: Crosslinked starch; Normal corn starch; Potato starch; Waxy corn starch; Starch granule protein
392. Elevated carbon dioxide and water stress effects on potato canopy gas exchange, water use, and productivity/David H. Fleisher, Dennis J. Timlin, V.R. Reddy *Agricultural and Forest Meteorology*, Volume 148, Issues 6-7, 30 June 2008, p. 1109-1122, ISSN 0168-1923
Keywords: Potato; Carbon dioxide; Climate change; Drought; SPAR chambers; Photosynthesis

393. Evaluation of rhizosphere bacterial antagonists for their potential to bioprotect potato (*Solanum tuberosum*) against bacterial wilt (*Ralstonia solanacearum*)/Naser A., Chemedaa Fininsa, Yayanu skias *Biological Control*, Volume 47, Issue 3, December 2008, p 282-288, ISSN 1049-9644
Keywords: Rhizobacteria; Bacterial antagonists; Biocontrol; PGPR; Ralstonia solanacearum; Solanum tuberosum
394. Evaluation of the Maillard reaction in potato crisps by acrylamide, antioxidant capacity and color/Arda Serpen, Vural Gokmen *Journal of Food Composition and Analysis*, 27 November 2008, ISSN 0889-1575
Keywords: Potato crisp; Potato chips; French fries; Solanum tuberosum L.; Maillard reaction; Risk and benefit; Acrylamide; Total antioxidant capacity; Color; Frying conditions; Food safety; Food composition
395. Expression in arabidopsis of a strawberry linalool synthase gene under the control of the inducible potato PI2 promoter/Li-mei Yang...[et al.] *Agricultural Sciences in China*, Volume 7, Issue 5, May 2008, p. 521-534, ISSN 1671-2927
Keywords: Aradidopsis; Linalool synthase; Potato proteins inhibitor; Inducible promoter; Methyl jasmonate; Plutella xylostella; Induction; Expression
396. Functional food characteristics of potato cultivars (*Solanum tuberosum* L.): Phytochemical composition and inhibition of 1-methyl-1-nitrosourea induced breast cancer in rats /Matthew D. Thompson ...[et al.] *Journal of Food Composition and Analysis* 26 September 2008, ISSN 0889-1575
Keywords: Potato; Solanum tuberosum L.; Cultivars; Breast cancer; Bioactive phytochemicals; Chronic disease prevention; Potato consumption and cancer; Food composition; Functional food

397. Gene expression in potato during cold exposure: Changes in carbohydrate and polyamine metabolisms/Mouhssin Oufir...[et al.] *Plant Science*, Volume 175, Issue 6, December 2008, p.839-852, ISSN 0168-9452
Keywords: Cold exposure; Gene expression; Metabolites; Potato; *Solanum phureja*
398. Generation and analyses of the transgenic potatoes expressing heterologous thermostable [beta]-amylase/Kuan-Hung Lin...[et al.] *Plant Science*, Volume 174, Issue 6, June 2008, p. 649-657, ISSN 0168-9452
Keywords: Thermostability; [beta]-Amylase; Transgenic potato
399. Genetic diversity of *Streptomyces* spp. causing common scab of potato in eastern Canada/Renee St-Onge ...[et al.] *Systematic and Applied Microbiology*, Volume 31, Issues 6-8, December 2008, 474-484, ISSN 0723-2020
Keywords: Potato; Common scab; Genetic diversity; *Streptomyces* spp.; Rep-PCR; 16S rRNA; RpoB; TxtA; TxtC; TomA
400. Glycoalkaloid responses of potato to Colorado potato beetle defoliation/Courtney L. Pariera Dinkins ...[et al.] *Food and Chemical Toxicology*, Volume 46, Issue 8, August 2008, 2832-2836, ISSN 0278-6915
Keywords: *Solanum tuberosum*; Potato; Alkaloid; Herbivory; Food toxicity; Food safety

401. Glycoalkaloids in potatoes: Content of glycoalkaloids in potatoes for consumption /Pia Knuthsen ...[et al.]
Journal of Food Composition and Analysis 5 November 2008,
ISSN 0889-1575
Keywords: Glycoalkaloids; [alpha]-Solanine; [alpha]-Chaconine; 'Solanine'; Bioactive non-nutrients; Potato varieties; Potatoes for consumption; HPLC-UV analysis; Survey; Safety level; Maximum tolerable level; Food composition
402. Human dietary risk assessment associated with glycoalkaloid responses of potato to Colorado potato beetle defoliation/Courtney L. Pariera Dinkins, Robert K.D. Peterson
Food and Chemical Toxicology, Volume 46, Issue 8, August 2008,
p. 2837-2840, ISSN 0278-6915
Keywords: Solanum tuberosum; Alkaloid; Herbivory; Food safety; Food toxicity; Dietary exposure
403. Impact of additives to lower the formation of acrylamide in a potato model system through pH reduction and other mechanisms /Frederic Mestdagh...[et al.]
Food Chemistry, Volume 107, Issue 1, 1 March 2008, p. 26-31,
ISSN 0308-8146
Keywords: Acrylamide; pH; Modelling; Additive; Potato
404. Influence of field margins and landscape context on ground beetle diversity in Wisconsin (USA) potato fields/Ben P. Werling, Claudio Gratton
Ecosystems & Environment, Volume 128, Issues 1-2, October 2008,p. 104-108, ISSN 0167-8809
Keywords: Field margin; Landscape ecology; Biodiversity; Potatoes

405. Influence of flesh colour and growing locality on polyphenolic content and antioxidant activity in potatoes/Jaromir Lachman
Scientia Horticulturae, Volume 117, Issue 2, 26 June 2008, p. 109-114, ISSN 0304-4238
Keywords: Potato; Yellow- and purple-fleshed cultivars; Growing region; DPPH assay; Folin-Ciocalteau assay
406. Influence of harvest date on nitrate contents of three potato varieties for off-season production/Anita Ierna
Journal of Food Composition and Analysis, In Press, Corrected Proof, Available online 3 December 2008, ISSN 0889-1575
Keywords: Nitrates; Potato; Solanum tuberosum; Cultivar variation; Harvest date; Off-season crop; Food
407. Insecticide resistance and genetic composition of *Myzus persicae* (Hemiptera: Aphididae) on field potatoes in New Zealand /Ron F. van Toor ...[et al.]
Crop Protection, Volume 27, Issue 2, February 2008, p. 236-247, ISSN 0261-2194
Keywords: Potato; Aphids; Myzus persicae; Alarm response; Insecticide resistance; Carboxylesterase; Modified acetylcholinesterase; kdr; Neonicotinoid resistance; Microsatellite; Genotypes
408. Isometric virus of the potato tuber moth *Tecia solanivora* (Povolny) (Lepidoptera: Gelechiidae) has a tri-segmented RNA genome /Jean-Louis Zeddam...[et al.]
Journal of Invertebrate Pathology, Volume 99, Issue 2, October 2008, p. 204-211, ISSN 0022-2011
Keywords: Small RNA virus; Phthorimaea operculella; Symmetrischema plaesiosema; Lepidoptera; Gelechiidae; Host specificity; Potato pest; Biological control

409. Low temperature post-harvest storage of New Zealand Taewa (Maori potato): Effects on starch physico-chemical and functional characteristics/Jaspreet Singh ...[et al.]
Food Chemistry, Volume 106, Issue 2, 15 January 2008, p. 583-596, ISSN 0308-8146
Keywords: Potato; Starch; Cultivar; Storage; Physico chemical; Morphological; Thermal; Pasting; Viscoelastic
410. Measurement and modelling of ABA signalling in potato (*Solanum tuberosum L.*) during partial root-zone drying/Fulai Liu ...[et al.]
Environmental and Experimental Botany, Volume 63, Issues 1-3, May 2008, p. 385-391, ISSN 0098-8472
Keywords: ABA signalling; Modelling; Partial root zone drying; Potato; Shifting of irrigation; Soil water dynamics
411. Methodology for evaluating the formation and human exposure to acrylamide through fried potato crisps/E. Cummins ...[et al.]
Food Science and Technology, Volume 41, Issue 5, June 2008, p. 854-867, ISSN 0023-6438
Keywords: Risk assessment; Acrylamide; Potato crisp; Simulation
412. Microsporogenesis and crossing behavior of a tetraploid, interspecific inter-EBN hybrid potato/J. Panahandeh ...[et al.]
Scientia Horticulturae, Volume 116, Issue 4, 20 May 2008, p. 348-353, ISSN 0304-4238
Keywords: Potato; *S. tuberosum*; *S. stoloniferum*; Crossability and interspecific hybrid
413. NaCl-induced changes in structure and water mobility in potato tissue as determined by CLSM and LF-NMR/Ida Krestine Straadt, Anette Kistrup Thybo, Hanne Christine Bertram
Food Science and Technology, Volume 41, Issue 8, November 2008, p. 1493-1500, ISSN 0023-6438
Keywords: Salting; Potato; NMR; T2 relaxation; Confocal

414. New determination method of amylose content in potato starch/D. Stawski
Food Chemistry, Volume 110, Issue 3, 1 October 2008, p.777-781, ISSN 0308-8146
Keywords: Starch; Amylose; Thermogravimetry
415. Nitrogen dynamics in the soil-plant system under deficit and partial root-zone drying irrigation strategies in potatoes/Ali Shahnazari ...[et.al.]
European Journal of Agronomy, Volume 28, Issue 2, February 2008, p. 65-73, ISSN 1161-0301
Keywords: Nitrogen uptake; Potato (*Solanum tuberosum* L.); Residual nitrogen; Leaching; Water saving irrigation strategy
416. Optimization of the blanching process to reduce acrylamide in fried potatoes/Frederic Mestdagh...[et al.]
Food Science and Technology, Volume 41, Issue 9, November 2008, p. 1648-1654, ISSN 0023-6438
Keywords: Acrylamide; Potato; Blanching; Response surface methodology
417. Oxylipin profile and antioxidant status of potato tubers during extended storage at room temperature/Pierre Delaplace...[et al.]
Plant Physiology and Biochemistry, Volume 46, Issue 12, December 2008, p.1077-1084, ISSN 0981-9428
Keywords: Potato; *Solanum tuberosum* L.; Oxylipin; Aging; Fatty acid hydroperoxide; Oxidative stress; Postharvest storage
418. Phenolic constituents levels in cv. Agria potato under microwave processing /Anna Angela Barba, ...[et.al.],
Food Science and Technology, Volume 41, Issue 10, December 2008, p. 1919-1926, ISSN 0023-6438
Keywords: *Solanum tuberosum*; Microwave cooking; Food analysis; Phenolic compounds; HPLC-DAD

419. Phenolic content and antioxidant capacity of Philippine potato (*Solanum tuberosum*) tubers/Rowena Grace O. ...[et al.]
Journal of Food Composition and Analysis 27 November 2008,
ISSN 0889-1575
Keywords: Potato; *Solanum tuberosum*; Potato varieties
Benguet, Ganza, Igorota and 125411.22; Phenolic
content; Antioxidant activity; Phillipine potato;
Radical scavenging; Metal chelation; Reducing
power; Food composition
420. Phenotypic, agronomic and nutritional characteristics of seven
varieties of Andean potatoes/M.E. Jimenez, A.M. Rossi, N.C.
Samman
Journal of Food Composition and Analysis, In Press, Corrected
Proof, Available online 3 September 2008, ISSN 0889-1575
Keywords: Andean potato; Vitamin C; Proximate composition;
Argentine potato varieties; Food composition;
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421. Postharvest chitosan treatment induces resistance in potato against
fusarium sulphureum/Xiao-juan Sun...[et al.]
Agricultural Sciences in China, Volume 7, Issue 5, May 2008,
615-621, ISSN 1671-2927
Keywords: Chitosan; Potato; Decay; Induced resistance
422. Potato (*Solanum tuberosum* L.) tuber physiological age index is a
valid reference frame in postharvest ageing studies/Pierre
Delaplace...[et al.]
Postharvest Biology and Technology, Volume 50, Issue 1, October
2008, p. 103-106, ISSN 0925-5214
Keywords: Incubation period; Dormancy; Sprouting pattern;
Emergence pattern; Storage

423. Potato genotype differences in nutritionally distinct starch fractions after cooking, and cooking plus storing cool/John Monro...[et al.]
Journal of Food Composition and Analysis, In Press, Corrected Proof, Available online 3 December 2008, ISSN 0889-1575
Keywords: Potato; *Solanum tuberosum L.*; Potato cultivar; Starch; Digestion; In vitro; Glycaemia; Glycaemic index; Slowly digested starch; Resistant starch; Biodiversity and nutrition; Food composition
424. Potato yield and metabolic profiling under conventional and organic farming/Albino Maggio...[et al.]
European Journal of Agronomy, Volume 28, Issue 3, April 2008,p. 343-350, ISSN 1161-0301,
Keywords: *Solanum tuberosum L.*; Nitrogen fertilization; Irrigation; Carbohydrates; Protein content; Amino acid profile
425. Predicting moisture profiles in potato and carrot during convective hot air drying using isothermally measured effective diffusivity /Jaruk Srikiatden, John S. Roberts
Journal of Food Engineering, Volume 84, Issue 4, February 2008,p. 516-525, ISSN 0260-8774
Keywords: Drying; Diffusion; Potato; Carrot; Modeling; Isothermal; Convective
426. Proliferation of amyloplasts in meristematic cells of developing stolons of potato and apple callus: Progenitors of proplastids /Shonosuke Sagisaka
Journal of Plant Physiology, Volume 165, Issue 16, 1 November 2008, p. 1678-1690, ISSN 0176-1617
Keywords: Amyloplast (proliferation); Apple callus; Potato stolon; Proplastid (generation and development)

427. Protein, iron, zinc and calcium concentrations of potatoes following traditional processing as 'chuno'/G. Burgos ...[et al.]
Journal of Food Composition and Analysis 25 September 2008,
ISSN 0889-1575
Keywords: Potato; Solanum varieties; Protein; Minerals;
Traditional freeze drying; Chuno; Food composition
428. Reduction of acrylamide formation by selected agents in fried potato crisps on industrial scale/Shiyi Ou...[et al.]
Innovative Food Science & Emerging Technologies, Volume 9,
Issue 1, January 2008, p. 116-121, ISSN 1466-8564
Keywords: Acrylamide; Agents; Potato crisps; Inhibition
429. Regulation of UDP-glucose pyrophosphorylase isozyme UGP5 associated with cold-sweetening resistance in potatoes/Sanjay K. Gupta, Joseph R. Sowokinos, In-Su Hahn
Journal of Plant Physiology, Volume 165, Issue 7, 5 May 2008, p. 679-690, ISSN 0176-1617
Keywords: Cold sweetening; Kinetics; Post translational modification; Potato; UGPase
430. Relationship between potato starch isolation methods and kinetic parameters of hydrolysis by free and immobilised [alpha]-amylase on alginate (*Laminaria digitata* algae)/Djaffar Djabali...[et al.]
Journal of Food Composition and Analysis, 25 November 2008,
ISSN 0889-1575
Keywords: Potato; Solanum tuberosum; Starch isolation;
[alpha]-Amylase; Sodium alginate; Covalent immobilization; TOC/TON; Free and immobilised enzyme; Kinetic; Bisulphite and alkaline analysis;
Food composition

431. Relative effects of biological amendments and crop rotations on soil microbial communities and soilborne diseases of potato /Robert P. Larkin
Soil Biology and Biochemistry, Volume 40, Issue 6, June 2008, p. 1341-1351, ISSN 0038-0717
Keywords: Biological amendments; Crop rotation; Soil microbial communities; Potato; Soilborne disease; Compost tea; FAME
432. Shoot and root competition in potato/maize intercropping: Effects on growth and yield/Gustave Nachigera Mushagalusa, Jean-Francois Ledent, Xavier Draye
Environmental and Experimental Botany, Volume 64, Issue 2, November 2008, p. 180-188, ISSN 0098-8472
Keywords: Maize; Potato; Intercropping; Competition
433. Soil water in relation to irrigation, water uptake and potato yield in a humid climate/G.C. Starr...[et al.]
Agricultural Water Management, Volume 95, Issue 3, March 2008, p. 292-300, ISSN 0378-3774
Keywords: Soil water; Irrigation; Potato; Time series; Diagnostic modeling; Water use efficiency; Time domain reflectometry
434. *Solanum tuberosum* inositol phosphate kinase (StITPK1) displaying inositol phosphate-inositol phosphate and inositol phosphate-ADP phosphotransferase activities/Samuel E.K. Caddick
FEBS Letters, Volume 582, Issue 12, 28 May 2008, p. 1731-1737, ISSN 0014-5793
Keywords: ATP-grasp fold; Inositol polyphosphate kinase; Phosphotransferase; Solanum tuberosum

435. Sorption isotherms of potato slices dried and texturized by controlled sudden decompression/T. Iguedjtal, N. Louka, K. Allaf
Journal of Food Engineering, Volume 85, Issue 2, March 2008, p. 180-190, ISSN 0260-8774
Keywords: **Sorption isotherms; Surface area; Isosteric heat; Texturizing; Potatoes; Drying**
436. Steady shear and yield stress data of fresh and frozen/thawed mashed potatoes: Effect of biopolymers addition/C. Fernandez, M.D. Alvarez, W. Canet
Food Hydrocolloids, Volume 22, Issue 7, October 2008, p.1381-1395, ISSN 0268-005X
Keywords: **Yield stress; Rheological models; Mashed potatoes**
437. Study on degradation kinetics of niacin in potato (*Solanum tuberosum* L.)/P. Nisha ...[et al.]
Journal of Food Composition and Analysis, In Press, Corrected Proof, Available online 3 December 2008, ISSN 0889-1575
Keywords: **Niacin degradation; Kinetics; Potato; Cookers; Food processing; Thermal processing of food; Vitamin retention; Vitamin loss; Food quality; Food composition**
438. Textural properties of potatoes (*Solanum tuberosum* L., cv. Monalisa) as affected by different cooking processes /P. Garcia-Segovia, A. Andres-Bello, J. Martinez-Monzo
Journal of Food Engineering, Volume 88, Issue 1, September 2008, p. 28-35, ISSN 0260-8774
Keywords: **Vacuum cooking; Potatoes; Texture profile analysis**
439. Thermal analysis of mixtures of wheat flour and potato starches /I.S.M. Zaidul...[et al.]
Food Hydrocolloids, Volume 22, Issue 4, June 2008, p. 499-504, ISSN 0268-005X
Keywords: **Wheat flour; Potato starch; Mixture; Gelatinization characteristics**

440. Thermal and viscoelastic properties of potato starches/Narpinder Singh...[et al.]

Food Hydrocolloids, Volume 22, Issue 6, August 2008, p. 979-988, ISSN 0268-005X

Keywords: Potato starch; Thermal; Rheology; Amylopectin structure; Pasting properties

441. Timing of injury and efficacy of soil-applied insecticides against wireworms on potato in Virginia/Thomas P. Kuhar, Juan M. Alvarez

Crop Protection, Volume 27, Issues 3-5, March-May 2008, p. 792-798, ISSN 0261-2194

Keywords: Conoderus spp.; Melanotus spp.; Chemical

442. Total and individual carotenoid profiles in *Solanum phureja* cultivated potatoes: II. Development and application of near-infrared reflectance spectroscopy (NIRS) calibrations for germplasm characterization/Merideth Bonierbale...[et al.]

Journal of Food Composition and Analysis, 5 October 2008, ISSN 0889-1575

Keywords: Potato; Potato cultivars; Solanum phureja; Biodiversity; Carotenoids; NIRS; Food analysis; Food composition

443. Total and individual carotenoid profiles in *Solanum phureja* of cultivated potatoes: I. Concentrations and relationships as determined by spectrophotometry and HPLC/Gabriela Burgos...[et al.]

Journal of Food Composition and Analysis 26 September 2008, ISSN 0889-1575

Keywords: Potato; Solanum phureja; Carotenoids; Spectrophotometry; HPLC; Food composition; Biodiversity

444. Understanding the role of potatoes in the Peruvian diet: An approach that combines food composition with household expenditure data/Donald Rose...[etal.]

Journal of Food Composition and Analysis, In Press, Corrected Proof, Available online 5 November 2008, ISSN 0889-1575

Keywords: Potato; Peru; Household expenditures; Consumption; Energy; Iron; Micronutrient deficiency; Micronutrient malnutrition; Food composition

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