



BIBLIOGRAFI HASIL PENELITIAN PERTANIAN KOMODITAS TANAMAN SERAT



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

2011

BIBLIOGRAFI HASIL PENELITIAN PERTANIAN KOMODITAS TANAMAN SERAT

Pusat Perpustakaan dan Penyebaran Teknologi Pertanian
Badan Penelitian dan Pengembangan Pertanian
Kementerian Pertanian
2011

**BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN SERAT**

2011

Diterbitkan oleh:

PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI
PERTANIAN

Jalan Ir. H. Juanda No 20 Bogor.

Telp. 0251 8321746, Faximili 0251 8326561

E-mail : pustaka@litbang.deptan.go.id

Homepage : www.pustaka.litbang.deptan.go.id

ISBN 978-979-8943-60-7

**BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN SERAT
2006-2011**

**Pusat Perpustakaan dan Penyebaran Teknologi Pertanian
Badan Penelitian dan Pengembangan Pertanian
Kementerian Pertanian
2011**

**BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN SERAT**

2011

Diterbitkan oleh:
PUSAT PERPUSTAKAAN DAN PENYEBARAN
TEKNOLOGI PERTANIAN
Jalan Ir. H. Juanda no. 20, Bogor
Telp. 0251 8321746, Faximili 0251 8326561

E-mail: pustaka@pustaka.litbang.deptan.go.id
Homepage: <http://pustaka.litbang.deptan.go.id/>
ISBN 978-979-8943-60-7

BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN SERAT

Pengarah : Dr. Haryono, M.Sc.

Penanggung jawab : Ir. Farid Hasan Baktir, M.Ec.

Penyusun : Sudarno, A.Md.
Sri Astuti, A.Md.

Penyunting : Suni Triani, S.Sos., M.Hum.
Kurniati, S.Pd.

KATA PENGANTAR

Bibliografi Hasil Penelitian Pertanian Komoditas Tanaman Serat tahun 2006-2011 disusun dan disebarakan kepada para pengguna di lingkup Badan Litbang Pertanian, dimaksudkan agar perkembangan penelitian pertanian di berbagai negara dapat diketahui dan dipantau, sehingga dapat dijadikan rujukan untuk penelitian dan pengembangan pertanian di tanah air.

Bibliografi ini memuat hasil penelitian yang bersumber dari database *ProQuest*, *ScienceDirect*, dan *TEEAL (The Essential Electronic of Agricultural Library)* yang dilanggan oleh Pusat Perpustakaan dan Penyebaran Teknologi Pertanian (PUSTAKA).

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

Bibliografi Hasil Penelitian Pertanian Komoditas Tanaman Serat 2006-2011 selain diterbitkan dalam bentuk tercetak, juga dapat diakses secara online melalui web PUSTAKA <http://pustaka.litbang.deptan.go.id>. Untuk mendapatkan artikel lengkapnya, dapat ditelusur melalui perpustakaan UK/UPT lingkup Badan Litbang Pertanian atau kontak langsung ke PUSTAKA melalui alamat email pustaka@pustaka.litbang.deptan.go.id atau telepon ke nomor 0251-8321746, fax 0251-8326561. Bagi para peneliti yang datang ke PUSTAKA, penelusuran dapat dilakukan di Operation Room Digital Library (ORDL) yang berada di Lantai 1 Gedung B.

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

Kepala Pusat,

Ir. Farid H. Baktir, M.Ec.

DAFTAR ISI

	Halaman
KATA PENGANTAR	i
DAFTAR ISI	iii
FLAX (<i>LINUM USITATISSIMUM</i>)	
2006	
ProQuest	1
Science Direct	1
2007	
Science Direct	3
2008	
Science Direct	4
2010	
ProQuest	6
Science Direct	7
HEMP (<i>CANNABIS SATIVA</i>)	
2006	
Science Direct	8
TEEAL	9
2007	
Science Direct	10
TEEAL	10
2008	
Science Direct	12
TEEAL	13
2009	
Science Direct	15

2010	Science Direct	16
2011	Science Direct	17

KAPAS (*GOSSYPIUM HIRSUTUM*)

2006	Science Direct	19
	TEEAL	32
2007	Science Direct	48
	TEEAL	60
2008	Science Direct	64
2009	Science Direct	81
2010	ProQuest	98
	Science Direct	99
2011	ProQuest	116
	Science Direct	116

KENAF (*HIBISCUS CANNABINUS*)

2006	TEEAL	124
2007	TEEAL	125
2008	TEEAL	126
2009	ProQuest	127

2010	Science Direct	128
 RAMIE (<i>BOEHMERIA NIVEA</i>)		
2006	ProQuest	129
2008	ProQuest	130
2009	ProQuest	131
2010	ProQuest	132
	Science Direct	132
2011	ProQuest	133
 YUTE (<i>CORCHORUS SPP.</i>)		
2007	Science Direct	134
2008	ProQuest	135
	Science Direct	135
2009	ProQuest	136
	Science Direct	137
 TANAMAN SERAT LAINNYA		
2006	Science Direct	138
2007	Science Direct	139

2008		
	Science Direct	140
	TEEAL	141
2009		
	ProQuest	142
	Science Direct	142
2010		
	ProQuest	144
	Science Direct	144
2011		
	Science Direct	146
INDEX SUBJECT.....		149

FLAX (*LINUM USITATISSIMUM*)

2006

ProQuest

1. Secondary cell-wall assembly in flax phloem fibres: role of galactans / Tatyana Gorshkova, Claudine Morvan
Planta. Berlin: Jan 2006. Vol. 223, Iss. 2, p. 149-158
Keyword: Flax; Ploem; Fibres; Galactans
2. Sorption properties of flax fibers depending on pretreatment processes and their environmental impact/ Fakin, D. ... [et al.]
Textile Research Journal, 2006, 76(6), 448-448-454
Keyword: Flax; Fibres; Processing; Chemicophysical properties

Science Direct

3. Changes in esterified pectins during development in the flax stems and leaves/ L. Bédouet ... [et al.]
Carbohydrate Polymers, v. 65, Issue 2, 25 July 2006, p. 165-173
Keywords: Acetylation; Flax; Homogalacturonan; Linum usitatissimum; Methylation; Pectins
4. Chemical determination of shive content in flax using the acetyl bromide method/ Bo Smeder
Industrial Crops and Products, v. 24, Issue 2, 2006, p. 123-131
Keywords: Flax; Linum usitatissimum; Fibres; Determination; Acetyl bromide
5. Critical N dilution curve for linseed (*Linum usitatissimum* L.) is different from other C3 species/ F. Flénet ... [et al.]
European Journal of Agronomy, v. 24, Issue 4, 2006, p. 367-373
Keywords: Nitrogen; Analytical methods; Wight; Linseed; Plant population; Spacing

6. Cuticular wax from flax processing waste with hexane and super critical carbon dioxide extractions/ W. Herbert Morrison III ... [et al.]
Industrial Crops and Products, v. 24, Issue 2, 2006, p. 119-122
Keywords: Flax; Hexane; Extraction; Processing

7. Mechanical properties of short flax fibre bundle/poly(ϵ -caprolactone) composites: Influence of matrix modification and fibre content/ Arbelaiz, B. ... [et al.]
Carbohydrate Polymers, v. 64, Issue 2, 2006, p. 224-232
Keywords: Flax; Fibres; Polymer matrix composites; Polycaprolactone; Compatibilization; Physical properties; Strength

8. Sorption properties of flax fibers depending on pretreatment processes and their environmental impact/ Fakin, D. ... [et al.]
Textile Research Journal, 2006, 76(6), p. 448-454
Keyword: Flax; Fibres; Processes; Physical properties; Environmental Impact

9. TDZ-induced triple-response and shoot formation on intact seedlings of *Linum*, putative role of ethylene in regeneration/ Renu Mundhara, A. Rashid,
Plant Science, v. 170, Issue 2, 2006, p. 185-190
Keywords: Calcium; Inhibitors; Chlorpromazine; Cobalt chloride; Ethylene; Potassium permanganate; Nitrate; Thidiazuron; Trifluoperazine; Plant response

10. Thermal characteristics of flaxseed (*Linum usitatissimum* L.) proteins/ B. Dave Oomah, Tanya J. Der, David V. Godfrey
Food Chemistry, v. 98, Issue 4, 2006, p. 733-741
Keywords: Flax; Linum usitatissimum; Heat; Varieties; Agronomic characters

11. SA method of estimating the single flax fibre fineness using data from the LaserScan system/ A. Grishanov, R.J.; Harwood; I. Booth
Industrial Crops and Products, v. 23, Issue 3, May 2006, p. 273-287
Keywords: Flax; Fibres; Processing; Quality

2007

Science Direct

12. Citric acid treatment of flax, cotton and blended nonwoven mats for copper ion absorption/ Wayne E. Marshall ... [et al.]
Industrial Crops and Products, v. 26, Issue 1, 2007, p. 8-13
Keywords: Flax; Flax/cotton blends; Cotton; Citric acid treatment; Nonwoven mats
13. Coniferin dimerisation in lignan biosynthesis in flax cells/ Vickram Beejmohun ... [et al.]
Phytochemistry, v. 68, Issues 22-24, 2007, p. 2744-2752
Keywords: Linum usitatissimum; Flax; Biotechnology; Coniferin; Lignin
14. Engineering flax with increased flavonoid content and thus Fusarium resistance/ Katarzyna Lorenc-Kukuła ... [et al.]
Physiological and Molecular Plant Pathology, v. 70, Issues 1-3, 2007, p. 38-48
Keywords: Linum usitatissimum; Flax; Flavonoids; Antioxidant; Fusarium
15. Flax-cotton fiber blends: Miniature spinning, gin processing, and dust potential/ Jonn A. Foulk ... [et al.]
Industrial Crops and Products, v. 25, Issue 1, 2007, p. 8-16
Keywords: Cotton; Blends; Dust; Strength; Flax; Ginning
16. MALDI-TOF MS evidence for the linking of flax bast fibre galactan to rhamnogalacturonan backbone/ Oleg P. Gur'janov ... [et al.]
Carbohydrate Polymers, v. 67, Issue 1, 2007, p. 86-96
Keywords: Linum usitatissimum; Flax; Fibres; Cell wall; Galactans; Galactanase
17. Optimization for enzyme-retting of flax with pectate lyase/ Danny E. Akin ... [et al.]
Industrial Crops and Products, v. 25, Issue 2, 2007, p. 136-146
Keywords: Pectin; Processing; Strength; Quality

2008

Science Direct

18. Chemical composition and oxidative stability of flax, safflower and poppy seed and seed oils/ Berrin Bozan, Feral Temelli
Bioresource Technology, v. 99, Issue 14, 2008, p. 6354-6359
Keywords: Flax; Seeds; Fatty acid; Tocol; Phenolics; Oxidative stability
19. Comparative analysis of developmental profiles for DNA methylation in 5-azacytidine-induced early-flowering flax lines and their control/ J.C.L. Brown, M.M. De Decker, M.A. Fieldes
Plant Science, v. 175, Issue 3, 2008, p. 217-225
Keywords: Epigenetics; Cytosine methylation; Vegetative phase; Flowering time; Post-germination; Cotyledon senescence
20. Computer image analysis of seed shape and seed color for flax cultivar description/ Wiesnerová Dana, Wiesner Ivo
Computers and Electronics in Agriculture, v. 61(2), 2008, p. 126-135
Keywords: Biodiversity; Computer image analysis; Flax; Agronomic characters; Varieties; Clustering
21. Environmental impacts of the production of hemp and flax textile yarn/ Hayo M.G. van der Werf, Lea Turunen
Industrial Crops and Products, v. 27, Issue 1, 2008, p. 1-10
Keywords: Environmental impact; Fibre processing; Flax; Hemp; Textile; Production
22. Evaluation of flax accessions for high value textile end uses/ Jane Harwood ... [et al.]
Industrial Crops and Products, v. 27, Issue 1, 2008, p. 22-28
Keywords: Flax; Cultivation; Fibres; Textiles; Processing

23. Extraction of lipids from flax processing waste using hot ethanol/ Ronald A. Holser, Danny E. Akin
Industrial Crops and Products, v. 27, Issue 3, 2008, p. 236-240
Keywords: Cuticle; Ethanol; Extraction; Flax; Lipids
24. Lipoxygenase-divinyl ether synthase pathway in flax (*Linum usitatissimum* L.) leaves/ Ivan R. Chechetkin ... [et al.]
Phytochemistry, v. 69, Issue 10, July 2008, p. 2008-2015
Keywords: Linum usitatissimum; Linaceae; Biosynthesis; Lipoxygenase pathway; Oxylipins; Divinyl ether synthase; Etherolenic acid
25. Microsatellite marker enrichment with magnetic beads in flax/ Xin DENG ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 12, 2008, p. 2099-2105
Keywords: Flax; Microsatellite; Enrichment; Genetic marker; Biotechnology
26. Molecular characterization of cell death induced by a compatible interaction between *Fusarium oxysporum* f. sp. *linii* and flax (*Linum usitatissimum*) cells/ Christophe Hano ... [et al.]
Plant Physiology and Biochemistry, v. 46, Issues 5-6, 2008, p. 590-600
Keywords: Caspase; Flax; Linum usitatissimum; Fusarium oxysporum; Cell death; Nuclease; Secondary metabolites
27. Optimization of phosphoric acid catalyzed fractionation and enzymatic digestibility of flax shives/ J.W. Kim, G. Mazza
Industrial Crops and Products, v. 28, Issue 3, 2008, p. 346-355
Keywords: Refine; Flax; Linum usitatissimum; Pretreatment; Enzymatic hydrolysis; Fractionation; Phosphoric acid
28. Polysaccharides, tightly bound to cellulose in cell wall of flax bast fibre: Isolation and identification/ Oleg P. Gurjanov ... [et al.]
Carbohydrate Polymers, v. 72, Issue 4, 2008, p. 719-729
Keywords: Linum usitatissimum; Flax; Fibres; Galactan; Cellulose

2010

ProQuest

29. Arable: Canadian flax alliance to improve opportunities/ Anonymous
Farmers Guardian, Tonbridge: Apr 30, 2010. p. 25
Keywords: Flax; Farmers association; Agricultural development
30. Effect of overspray treatments on the processing efficiency of a 50/50 flax/cotton blend/ Gary Gamble, Jonn Foulk
Textile Research Journal, Princeton: May 2010, v. 80(8), p. 754-759
Keywords: Flax; Cotton: Textile; Processing; Efficiency
31. Genetic analysis of some agronomic traits in flax (*Linum usitatissimum* L.)/ A A Mohammadi, G Saeidi, A Arzani
Australian Journal of Crop Science, Lismore: Jul 2010, v. 4(5), p. 343-352
Keywords: Flax; Linum usitatissimum; Genetics; Agronomic characters
32. Influence of soil type and natural Zn chelates on flax response, tensile properties and soil Zn availability/ Jose M Alvarez
Plant and Soil, The Hague: Mar 2010, v. 328(1-2), p. 217-233
Keywords: Flax; Soil chemico-physical properties; Zinc; Strength; Plant response
33. Internalization of flax rust avirulence proteins into flax and tobacco cells can occur in the absence of the pathogen (W)/ Maryam Rafiqi ... [et al.]
Plant Cell, Rockville: Jun 2010, v. 22(6), p. 2017-2032
Keywords: Flax; Tobacco; Proteins; Pathogens; Plant diseases; Disease control
34. Naturally Advanced Technologies Inc.; Naturally Advanced Technologies forecasts flax to become next major player in the garment, textile industry/ Anonymous
Agriculture Business Week, Atlanta: Dec 2, 2010, p. 8
Keywords: Flax; Forecasting; Textile industry

35. Naturally Advanced Technologies Inc.; Naturally Advanced Technologies, Inc. enters into short-term crailar flax fiber supply agreement/ Anonymous
Ecology, Environment & Conservation Business, Atlanta: Dec 18, 2010, p. 19
Keywords: Flax; Fibres; Supply and demand; Technology
36. Response of organic linseed (*Linum usitatissimum* L.) to the combination of tillage systems (minimum, conventional and no-tillage) and fertilization practices: seed and oil yield production/D J Bilalis ... [et al.]
Australian Journal of Crop Science, Lismore: Nov 2010, v. 4(9), p. 700-705
Keywords: Linum usitatissimum; Linseed; Soil tillage; Fertilization ; Seeds; Oil yields; Production

Science Direct

37. Biodegradable composites based on flax/polyhydroxybutyrate and its copolymer with hydroxyvalerate/ N.M. Barkoula, S.K. Garkhail, T. Peijs
Industrial Crops and Products, v. 31, Issue 1, 2010, p. 34-42
Keywords: Flax; Fibres; Polyhydroxybutyrate; Polymer; Compression; Moulding; Biodegradability

HEMP (*CANNABIS SATIVA*)

Science Direct

38. Analysis of sunnhemp fibers processed using jute spinning system/
Nilesh P. Ingle, S.S. Doke
Industrial Crops and Products, v. 23, Issue 3, 2006, p. 235-243
Keywords: Sunnhemp; Processing; Carding; Drawing; Distribution; Fibres
39. Effect of sowing date and plant density on the cell morphology of hemp (*Cannabis sativa* L.)/
Tanja Schafer, Bernd Honermeier
Industrial Crops and Products, v. 23, Issue 1, 2006, p. 88-98
Keywords: Hemp; Cannabis sativa; Microscopy; Fibre cells; Cell morphology
40. Effect of variety, seed rate and time of cutting on fibre yield of dew-retted hemp/
Sarita J. Bennett, Rebecca Snell, David Wright
Industrial Crops and Products, v. 24, Issue 1, July 2006, p. 79-86
Keywords: Hemp; Dew retting; Fibre yield; Density; Harvesting
41. Effects of chemical-physical pre-treatment processes on hemp fibres for reinforcement of composites and for textiles/
Anne Belinda Thomsen ... [et al.]
Industrial Crops and Products, v. 24, Issue 2, 2006, p. 113-118
Keywords: Hemp; Textile; Hydrothermal treatment; Wet oxidation; Steam explosion; Fibre composition; Fibre colour
42. Optimisation of spinning parameters for processing of 100% sunnhemp fibers/
Nilesh P. Ingle, S.S. Doke
Industrial Crops and Products, v. 23, Issue 3, 2006, p. 225-234
Keywords: Sunnhemp; Processing; Chemicophysical properties; Strength; Quality
43. Visualisation of dislocations in hemp fibres: A comparison between
Bibliografi Hasil Penelitian Pertanian Komoditas Tanaman Serat 2006-2011

scanning electron microscopy (SEM) and polarized light microscopy (PLM)/ Lisbeth G. Thygesen, Jorgen B. Bilde-Sorensen, Preben Hoffmeyer

Industrial Crops and Products, v. 24, Issue 2, 2006, p. 181-185

Keywords: Dislocations; Fibres; Hemp; Cannabis sativa; Scanning electron microscopy; Polarized light microscopy

TEEAL

44. Characterisation of the heterogeneous alkaline pulping kinetics of hemp woody core/ Vinh-Dang. Kien-Loi-Nguyen
Bioresource Technology, 2006, 97 (12), p. 1353-1359
Keywords: Hemp; Fibres; Pulping; Processing; Strength
45. Enzymatic modification of hemp fibres for sustainable production of high quality materials: influence of processing parameters/ Fischer-H. Mussig-J. Bluhm-C
Journal of Natural Fibers, 2006, 3 (2-3), p. 39-53
Keywords: Hemp; Fibres; Pulping; Processing; Strength; Quality
46. Microscopic study on hemp bast fibre formation/ Hernandez-A. Westerhuis-W. Dam-J-E-G-van
Journal of Natural Fibers, 2006, 3 (4), p. 1-12
Keywords: Hemp; Fibres; Strength

2007

Science Direct

47. Comparison of composites made from fungal defibrated hemp with composites of traditional hemp yarn/ Anders Thygesen ... [et al.]
Industrial Crops and Products, v. 25, Issue 2, 2007, p. 147-159
Keywords: Hemp; Fibres; Composition; Processing; Fungal defibrated

TEEAL

48. Carbohydrate components and crystalline structure of organosolv hemp (*Cannabis sativa* L.) bast fibers pulp/ Gumuskaya-E. Usta-M. Balaban-M.
Bioresource Technology, 2007, 98 (3), p. 491-497
Keywords: Hemp; Chemicophysical properties; Carbohydrate; Pulping; X-ray; HPLC
49. Direct hemp cellulose dissolution in N-methylmorpholine-N-oxide/ Janjic-S. Kostic-M. Skundric-P.
Journal of Natural Fibers, 2007, 4 (3), p. 23-36
Keywords: Hemp; Fibres; Cellulose; Chemical solution
50. First report of southern blight caused by *Sclerotium rolfsii* on hemp (*Cannabis sativa*) in Sicily and Southern Italy/ Pane-A. ... [et al.]
Plant Disease, 2007, 91 (5), p. 636-642
Keywords: Cannabis sativa; Sclerotium rolfsii; Plant diseases; Diseases control; Italy
51. First report of witches' broom disease in a *Cannabis* spp. in China and its association with a phytoplasma of elm yellows group (16SrV)/ Zhao-Y. ... [et al.]
Plant Disease, 2007, 91 (2), p. 227-231
Keywords: Cannabis; Plant diseases; Disease control; Phytoplasma; Viroses; China

52. Influence of separation and processing systems on morphology and mechanical properties of hemp and wood fibre reinforced polypropylene composites/ Bledzki-A. Faruk-O. Specht-K.
Journal of Natural Fibers, 2007, 4 (3), p. 37-56
Keywords: Hemp; Fibres; Processing; Strength; Composites board
53. Inter simple sequence repeats separate efficiently hemp (*Cannabis sativa* L.) from marijuana/ Hakki-Erdogan-E. ... [et al.]
Electronic Journal of Biotechnology, 2007, 10 (4), p. 570-581
Keywords: Cannabis sativa; Hemp; Cellulose; Sequencing; Separation; Biotechnology; Genetic engineering
54. Interaction between agronomic and mechanical factors for fiber crops harvesting: italian results- note II. Hemp/ Venturi-P. ... [et al.]
Journal of Natural Fibers, 2007, 4 (4), p. 83-97
Keywords: Hemp; Plant fibres; Agronomic characters; Strength
55. Microarray analysis of bast fibre producing tissues of *Cannabis sativa* identifies transcripts associated with conserved and specialised processes of secondary wall development/ Pauw-M-A-de. ... [et al.]
Functional Plant Biology, 2007, 34 (8), p. 737-749
Keywords: Cannabis sativa; Biotechnology; Genetic engineering; Tissue culture; Fibres; Production
56. Wetting properties of hemp fibres modified by plasma treatment/ Skundric-P. ... [et al.]
Journal of Natural Fibers, 2007, 4 (1), p. 25-33
Keywords: Hemp; Fibres; Processing; Strength; Chemicophysical properties

2008

Science Direct

57. Differential expression of genes involved in C1 metabolism and lignin biosynthesis in wooden core and bast tissues of fibre hemp (*Cannabis sativa* L.)/ Hetty C. van den Broeck ... [et al.]
Plant Science, v. 174, Issue 2, February 2008, p. 205-220
Keywords: Cannabis sativa; DNA; Cellulose; Fibres; Hemp; Lignins
58. Effects of hemicelluloses and lignin removal on water uptake behavior of hemp fibers/ Biljana M. Pejic ... [et al.]
Bioresource Technology, v. 99, Issue 15, October 2008, p. 7152-7159
Keywords: Hemp; Fibers; Chemical properties; Moisture content; Sorption; Water retention
59. Effects of limited enzymatic hydrolysis with trypsin on the functional properties of hemp (*Cannabis sativa* L.) protein isolate/ Shou-Wei Yin ... [et al.]
Food Chemistry, v. 106, Issue 3, 1 February 2008, p. 1004-1013
Keywords: Hemp; Protein isolate; Cannabis sativa; Enzymatic hydrolysis; Trypsin
60. Effects of thermal and enzymatic treatments and harvesting time on the microbial quality and chemical composition of fibre hemp (*Cannabis sativa* L.)/ Minna Nykte ... [et al.]
Biomass and Bioenergy, v. 32, Issue 5, May 2008, p. 392-399
Keywords: Hemp; Temperature; Harvesting; Postharvest handling; Heating; Fibres; Enzymatic retting; Microbial properties; Chemical properties; Quality
61. Influence of agronomic factors on yield and quality of hemp (*Cannabis sativa* L.) fibre and implication for an innovative production system/ Stefano Amaducci ... [et al.]
Field Crops Research, v. 107, Issue 2, 10 May 2008, p. 161-169
Keywords: Cannabis sativa; Hemp; Fibres; Plant population; Genotype; Harvesting; Textile

62. Modelling post-emergent hemp phenology (*Cannabis sativa* L.): Theory and evaluation/ Stefano Amaducci ... [et al.]
European Journal of Agronomy, v. 28, Issue 2, 2008, p. 90-102
Keywords: Hemp; Cannabis sativa; Phenology; Modelling; Photoperiod; Germinability
63. Quality of chemically modified hemp fibers/ Mirjana Kostic, Biljana Pejic, Petar Skundric
Bioresource Technology, v. 99, Issue 1, January 2008, p. 94-99
Keywords: Hemp; Fibers; Processing; Composition; Chemicophysical properties; Sorption

TEEAL

64. Direct NMR analysis of cannabis water extracts and tinctures and semi-quantitative data on Δ^9 -THC and Δ^9 -THC-acid/ Politi-M. ... [et al.]
Phytochemistry, 2008, 69 (2), p. 562-570
Keywords: Cannabis sativa; Tissue culture; NMR spectroscopy; Extracts; Chemicophysical properties
65. Effects of hemicelluloses and lignin removal on water uptake behavior of hemp fibers/ Pejic-B-M. ... [et al.]
Bioresource Technology, 2008, 99 (15), p. 7152-7159
Keywords: Hemp; Fibres; Chemicophysical properties; Cellulose; Lignin
66. Effects of limited enzymatic hydrolysis with trypsin on the functional properties of hemp (*Cannabis sativa* L.) protein isolate/ Yin-Shou-We. ... [et al.]
Food Chemistry, 2008, 106 (3), p. 1004-1013
Keywords: Hemp; Fibres; Chemicophysical properties; Enzymatic hydrolyzed; Trypsin
67. Estimation of *Cannabis sativa* L. tissue culture conditions essential for callus induction and plant regeneration/ Wielgus-K. ... [et al.]
Journal of Natural Fibers, 2008, 5 (3), p. 199-207
Keywords: Cannabis sativa; Tissue culture; Callus; Plant regeneration; Growth

68. Maintenance breeding of Polish hemp cultivar Beniko/ Grabowska-L. ... [et al.]
Journal of Natural Fibers, 2008, 5 (3), p. 208-217
Keywords: Cannabis sativa; Varieties; Plant breeding; Cultivation; Maintenance; Growth
69. Non-cannabinoid constituents from a high potency *Cannabis sativa* variety/ Radwan-M-M. ... [et al.]
Phytochemistry, 2008, 69 (14), p. 2627-2633
Keywords: Cannabis sativa; Chemical properties; Biopesticides
70. Quality of chemically modified hemp fibers/ Kostic-M. Pejic-B. Skundric-P.
Bioresource Technology, 2008, 99 (1), p. 94-99
Keywords: Hemp; Plant fibres; Chemical properties; Strength; Quality

2009

Science Direct

71. Analysis of green hemp fibre reinforced composites using bag retting and white rot fungal treatments/ Yan Li, K.L. Pickering, R.L. Farrell
Industrial Crops and Products, v. 29, Issues 2-3, 2009, p. 420-426
Keywords: Hemp; Fibres; Interfacial bonding; Composite; Fungal diseases; Diseases control

72. Enzymatic hydrolysis of hemp (*Cannabis sativa* L.) protein isolate by various proteases and antioxidant properties of the resulting hydrolysates/ Chuan-He Tang, Xian-Sheng Wang, Xiao-Quan Yang
Food Chemistry, v. 114, Issue 4, 15 June 2009, p. 1484-1490
Keywords: Hemp; Protein isolates; Cannabis sativa; Enzymatic hydrolysis; Proteases; Hydrolyzed protein; Antioxidant

73. Mechanical properties of lime-hemp concrete containing shives and fibres/ Paulien Brigitte de Bruijn ... [et al.]
Biosystems Engineering, v. 103, Issue 4, August 2009, p. 474-479
Keywords: Hemp; Fibres; Chemicophysical properties; Strength

2010

Science Direct

74. Compressive properties of hemp (*Cannabis sativa* L.) stalks/ Md. Majibur Rahman Khan ... [et al.]
Biosystems Engineering, v. 106, Issue 3, July 2010, p. 315-323
Keywords: Hemp; Cannabis sativa; Fibres; Chemicophysical properties; Strength
75. Effect of hemicelluloses and lignin on the sorption and electric properties of hemp fibers/ Mirjana M. Kostic ... [et al.]
Industrial Crops and Products, v. 32, Issue 2, 2010, p. 169-174
Keywords: Hemp; Fibres; Chemicophysical properties; Sorption; Electrical properties; Electrical conductivity
76. Fibre hemp inflorescences: From crop-residues to essential oil production/ Alessandra Bertoli ... [et al.]
Industrial Crops and Products, v. 32, Issue 3, 2010, p. 329-337
Keywords: Cannabis sativa; Fibres; Hemp; Essential oils; Agricultural wastes; Crop residues
77. Impact of corona treated hemp fibres onto mechanical properties of polypropylene composites made thereof/ Mohamed Ragoubi ... [et al.]
Industrial Crops and Products, v. 31, Issue 2, 2010, p. 344-349
Keywords: Corona viridae; Chemicophysical properties; Strength; Moulding; Board composites; Fibres
78. Steam pretreatment of dry and ensiled industrial hemp for ethanol production/ Balint Sipos ... [et al.]
Biomass and Bioenergy, v. 34, Issue 12, Current and Potential Capabilities of Wood Production Systems in the Southeastern U.S., December 2010, p. 1721-1731
Keywords: Fuel crops; Biofuels; Cannabis sativa; Lignocellulose; Enzymatic hydrolysis; Saccharomyces cerevisiae

2011

Science Direct

79. Anaerobic digestion of industrial hemp: Effect of harvest time on methane energy yield per hectare/ E. Kreuger ... [et al.]
Biomass and Bioenergy, v. 35, Issue 2, 2011, p. 893-900
Keywords: Energy crop; Transportation; Lignocellulose; Biofuel; Biogas; Cannabis sativa; Harvesting; Biomass
80. Bioconversion of industrial hemp to ethanol and methane: The benefits of steam pretreatment and co-production/ Emma Kreuger ... [et al.]
Bioresource Technology, v. 102, Issue 3, 2011, p. 3457-3465
Keywords: Fuel crops; Biofuels; Biogas; Lignocellulose; Energy crops; Cannabis sativa; Processing
81. Fineness and tensile properties of hemp (*Cannabis sativa* L.) fibres/ Md. Majibur Rahman Khan ... [et al.]
Biosystems Engineering, v. 108, Issue 1, 2011, p. 9-17
Keywords: Hemp; Cannabis sativa; Fibres; Chemicophysical properties; Strength
82. Surface texture, chemistry and adsorption properties of acid blue 9 of hemp (*Cannabis sativa* L.) bast-based activated carbon fibers prepared by phosphoric acid activation/ Ru Yang ... [et al.]
Biomass and Bioenergy, v. 35, Issue 1, 2011, p. 437-445
Keywords: Hemp; Cannabis sativa; Activated carbon; Fibres; Chemicophysical properties; Adsorption; Isotherm; Kinetics
83. Upgrading of hemp core for papermaking purposes by means of organosolv process/ L. Barbera ... [et al.]
Industrial Crops and Products, v. 34, Issue 1, 2011, p. 865-872
Keywords: Non-wood resources; Hemp core; Organosolv cooking; Pulp characterisation; Papermaking ability

84. Weed control in sunn hemp and its ability to suppress weed growth/
Jorge A. Mosjidis, Glenn Wehtje
Crop Protection, v. 30, Issue 1, January 2011, p. 70-73
**Keywords: Cover crops; Allelopathy; Forage legumes; Weed
suppression**

KAPAS (*GOSSYPIUM HIRSUTUM*)

2006

Science Direct

85. Behavioral hormoligosis in oviposition preference of *Bemisia tabaci* on cotton/ N.M.M. Abdullah, Joginder Singh, B.S. Sohal
Pesticide Biochemistry and Physiology, v. 84, Issue 1, 2006, p. 10-16
Keywords: Bemisia tabaci; Insecticides; Hormones; Oviposition; Cotton; Biochemical pathways
86. Boll distribution patterns in Bt and non-Bt cotton cultivars: I. Study on commercial irrigated farming systems in South Africa/ J.L. Hofs, B. Hau, D. Marais
Field Crops Research, v. 98, Issues 2-3, 2006, p. 203-209
Keywords: Cotton; South Africa; Precocity; Transgenic plants; Varieties; Irrigated land; Farming systems
87. Boll distribution patterns in Bt and non-Bt cotton cultivars: II. Study on small-scale farming systems in South Africa/ J.L. Hofs ... [et al.]
Field Crops Research, v. 98, Issues 2-3, 2006, p. 210-215
Keywords: Cotton; South Africa; Genetic markers; Transgenic plants; Varieties; Farming systems
88. Climatic limits of pink bollworm in Arizona and California: effects of climate warming/ Andrew Paul Gutierrez ... [et al.]
Acta Oecologica, v. 30, Issue 3, 2006, p. 353-364
Keywords: Cotton; Pest insects; Eradication; Climatic change; GIS
89. Comparative effects of drip and furrow irrigation on the yield and water productivity of cotton (*Gossypium hirsutum* L.) in a saline and waterlogged Vertisol/ Daleshwar Rajak ... [et al.]
Agricultural Water Management, v. 83, Issues 1-2, 16 2006, p. 30-36
Keywords: Cotton; Saline water; Soil water; Trickle irrigation; Productivity; Marginal land; Water quality

90. Concentration and management of *Bemisia tabaci* in cantaloupe as a trap crop for cotton/ S.J. Castle
Crop Protection, v. 25, Issue 6, 2006, p. 574-584
Keywords: Polyphago tarsonemus; Biotypes; Bemisia tabaci; Hosts; Feeding preference; Pest management; Traps; Insect control
91. Cotton management in a compacted subsurface microirrigated coastal plain soil of the southeastern US/ W.J. Busscher, P.J. Bauer, C.R. Camp
Soil and Tillage Research, v. 91, Issues 1-2, 2006, p. 157-163
Keywords: Trickle irrigation; Microirrigation; Soil compaction; Deep tillage; Acrisol; Cultivators
92. Crop water productivity of cotton (*Gossypium hirsutum* L.)-wheat (*Triticum aestivum* L.) system as influenced by deficit irrigation, soil texture and precipitation/ S.K. Jalota ... [et al.]
Agricultural Water Management, v. 84, Issues 1-2, 2006, p. 137-146
Keywords: Water productivity; Cotton; Wheat; Integrated management; Farming system; Soil texture; Irrigation water; Precipitation
93. Crushed cotton gin compost on soil biological properties and rice yield/ M. Tejada, J.L. Gonzalez
European Journal of Agronomy, v. 25, Issue 1, 2006, p. 22-29
Keywords: Oryza sativa; Cotton; Agricultural wastes; Compost; Soil chemico-physical properties; Enzymatic activity; Leaf pigment; Yields
94. Diurnal pattern of aphid feeding and its effect on cotton leaf physiology/ S. Karen Gomez ... [et al.]
Environmental and Experimental Botany, v. 55(1-2), 2006, p. 77-86
Keywords: Aphis gossypii; Feeding preferences; Gossypium hirsutum; Leaf carbohydrates; Photosynthesis; Respiration; Pathogenecity

95. Dry mycelium of *Penicillium chrysogenum* induces expression of pathogenesis-related protein genes and resistance against wilt diseases in Bt transgenic cotton/ Suiyun Chen ... [et al.]
Biological Control, v. 39, Issue 3, 2006, p. 460-464
Keywords: Gossypium hirsutum; Pathogenesis; Penicillium chrysogenum; Fusarium oxysporum; Verticillium dahlia; Disease resistance
96. Dry mycelium of *Penicillium chrysogenum* protects cotton plants against wilt diseases and increases yield under field conditions/ Hezhong Dong ... [et al.]
Crop Protection, v. 25, Issue 4, 2006, p. 324-330
Keywords: Gossypium hirsutum; Penicillium chrysogenum; Wilt disease; Induced resistance; Disease resistance; Yields
97. Early activation of cell wall strengthening-related gene transcription in cotton by a *Verticillium dahliae* elicitor/ M. Zwiigelaar, I.A. Dubery
South African Journal of Botany, v. 72, Issue 3, 2006, p. 467-472
Keywords: Gossypium hirsutum; Disease resistance; Cell walls; Gene expression; Verticillium
98. Early instar response to plant-delivered Bt-toxin in a herbivore (*Spodoptera litura*) and a predator (*Propylaea japonica*)/ Gui-Fen Zhang ... [et al.]
Crop Protection, v. 25, Issue 6, June 2006, p. 527-533
Keywords: Gossypium hirsutum; Transgenic plants; Bacillus thuringiensis; Propylaea japonica; Spodoptera; Biosafety; Predators; Pest insects; Risk assessment
99. Economic impacts on cotton production due to land degradation in the Gediz Delta, Turkey/ E. Atis
Land Use Policy, v. 23, Issue 2, 2006, p. 181-186
Keywords: Cotton; Plantation; Land degradation; Soil salinization; Waterlogging; Economic analysis; Production

100. Efficacy of transgenic Bt cotton for resistance to the Asian corn borer (Lepidoptera: Crambidae)/ Kanglai He ... [et al.]
Crop Protection, v. 25, Issue 2, February 2006, p. 167-173
Keywords: Gossypium hirsutum; Transgenic plants; Host plants; Pest resistance; Ostrinia furnacalis
101. Effect of acetylene and ethylene gases released from encapsulated calcium carbide on growth and yield of wheat and cotton/
 Muhammad Yaseen, Muhammad Arshad, Azeem Khalid
Pedobiologia, v. 50, Issue 5, 30 October 2006, p. 405-411
Keywords: Gossypium hirsutum; Wheat; Calcium carbide; Acetylene; Ethylene; Plant hormone; Nitrification inhibitor; Growth; Yields
102. Effect of organic amendments on Verticillium wilt of cotton/
 Junli Huang, Honglian Li, Hongxia Yuan
Crop Protection, v. 25, Issue 11, November 2006, p. 1167-1173
Keywords: Gossypium hirsutum; Organic amendments; Verticillium dahliae; Fungal diseases; Disease control; Rhizosphere; Microorganism
103. Effects of Bt cotton expressing Cry1Ac and Cry2Ab and non-Bt cotton on behavior, survival and development of *Trichoplusia ni* (Lepidoptera: Noctuidae)/ Y.-X. Li, S.M. Greenberg, T.-X. Liu
Crop Protection, v. 25, Issue 9, September 2006, p. 940-948
Keywords: Cotton; Transgenic plants; Trichoplusia ni; Bacillus thuringensis; Behavior; Development; Survival
104. Effects of integrated use of organic and inorganic nutrient sources with effective microorganisms (EM) on seed cotton yield in Pakistan
 Abdul Khaliq, M. Kaleem Abbasi, Tahir Hussain
Bioresource Technology, v. 97, Issue 8, May 2006, p. 967-972
Keywords: Effective microorganisms; Gossypium hirsutum; Mineral fertilizer; Nutrient uptake; Organic materials

105. Efficient delivery of small interfering RNA to plant cells by a nanosecond pulsed laser-induced stress wave for posttranscriptional gene silencing/ Wei Tang ... [et al.]
Plant Science, v. 171, Issue 3, September 2006, p. 375-381
Keywords: Gossypium hirsutum; Laser induced; Stress; Oryza sativa; Pinus elliottii; RNA; Biotechnology
106. Environmental and cost efficiency of pesticide use in transgenic and conventional cotton production/ Ada Wossink, Zulal S. Denaux
Agricultural Systems, v. 90, Issues 1-3, October 2006, p. 312-328
Keywords: Cotton; Biotechnology; Pesticides; Leaching; Environmental factors; Efficiency; Data analysis; Economic analysis
107. Environmental impact of genetically modified cotton in South Africa/ Stephen Morse, Richard Bennett, Yousouf Ismael
Agriculture, Ecosystems & Environment, v. 117(4), 2006, p. 277-289
Keywords: Insecticides; Environmental impact; Cotton; Genetic modification; South Africa
108. Evaluation of three cultivation practices for early cotton establishment and improving crop profitability/ Theodoros D. Stathakos ... [et al.]
Soil and Tillage Research, v. 87, Issue 2, June 2006, p. 135-145
Keywords: Cotton; Cultivation; Tillage; Plastic film; Energy; Agricultural development; Greece
109. Fixed-bed catalytic pyrolysis of cotton-seed cake: Effects of pyrolysis temperature, natural zeolite content and sweeping gas flow rate/ Ersan Putun, Basak Burcu Uzun, Ayse Eren Putun
Bioresource Technology, v. 97, Issue 5, March 2006, p.701-710
Keywords: Natural zeolite; Catalytic pyrolysis; Cotton; Agricultural wastes; Environmental impacts

110. Footprints in the cotton fields: The industrial revolution as time-space appropriation and environmental load displacement/ Alf Hornborg
Ecological Economics, v. 59, Issue 1, 5 August 2006, p. 74-81
Keywords: Cotton; Plantation; Environmental factors; Appropriate technology; Textile industry; Capital allocation; Agricultural development; Macroeconomy
111. Heterosis study on developmental behavior of flowering and boll setting in upland cotton/ Zi-hong YE, Jun ZHU
Agricultural Sciences in China, v. 5, Issue 1, January 2006, p. 23-32
Keywords: Gossypium hirsutum; Heterosis; Developmental stages; Flowering; Bolls; Fruiting; Growth
112. Impact of Bt cotton adoption on pesticide use by smallholders: A 2-year survey in Makhatini Flats (South Africa)/ Jean-Luc Hofs, Michel Fok, Maurice Vaissayre
Crop Protection, v. 25, Issue 9, September 2006, p. 984-988
Keywords: Cotton; Transgenic plants; Insecticides; Safety; Cost analysis; Efficiency; Integrated plant production; Farming systems; South Africa
113. In-field development of a conceptual crop functioning and management model: A case study on cotton in southern Mali Bruno Rapidel ... [et al.]
European Journal of Agronomy, v. 24, Issue 4, May 2006, p. 304-315
Keywords: Cotton; Crop management; Integrated plant production; Farming systems; Yields; Pilot farms; West Africa
114. Induction of the cytochrome P450 activity by plant allelochemicals in the cotton bollworm, *Helicoverpa armigera* (Hubner)/ Xiaoning Liu ... [et al.]
Pesticide Biochemistry and Physiology, v. 84(2), 2006, p. 127-134
Keywords: Cotton; Pest insects; Helicoverpa armigera; Induction; RNA; Gene expression; Tridecanone; Quercetin

115. Influence of transgenic cotton on the relative abundance and damage by target and non-target insect pests under different protection regimes in India/ H.C. Sharma, G. Pampapathy
Crop Protection, v. 25, Issue 8, August 2006, p. 800-813
Keywords: Gossypium hirsutum; Helicoverpa armigera; Pest insects; Pest control; Host pathogen relations; Side effects
116. Interactions of Bt-cotton and the omnivorous big-eyed bug *Geocoris unctipes* (Say), a key predator in cotton fields/ Jorge B. Torres, John L. Ruberson
Biological Control, v. 39, Issue 1, October 2006, p. 47-57
Keywords: Cotton; Transgenic plants; Pests of plants; Predators; Natural enemies; Heteropteran; Phytophatology
117. Isolation of a cotton reversibly glycosylated polypeptide (GhRGP1) promoter and its expression activity in transgenic tobacco/ Ai-Min Wu, Chen Ling, Jin-Yuan Liu
Journal of Plant Physiology, v. 163, Issue 4, March 2006, p. 426-435
Keywords: Cotton; Tobacco; Glycosides; Peptides; Transgenic plants; Induced expression
118. Modelling biological control with wild-type and genetically modified baculoviruses in the *Helicoverpa armigera*-cotton system/ Xiulian Sun ... [et al.]
Ecological Modelling, v. 198, Issues 3-4, 15 October 2006, p. 387-398
Keywords: Cotton; Pest insect; Helicoverpa armigera; Nucleopolyhedrovirus; Baculoviridae; Genetic modification; Biological control; Persistence; Population dynamics; Epidemiology; Models

119. Molecular cloning and characterization of *Gossypium hirsutum* superoxide dismutase genes during cotton-*Xanthomonas campestris* pv. *malvacearum* interaction/ Andreas E. Voloudakis ... [et al.]
Physiological and Molecular Plant Pathology, v. 68(4-6), 2006, p. 119-127
Keywords: Gossypium hirsutum; Hypersensitivity; Oxidation; SOD; Superoxide dismutase
120. NaCl salinity stress decreased *Bacillus thuringiensis* (Bt) protein content of transgenic Bt cotton (*Gossypium hirsutum*L.) seedlings/ Linjian Jiang ... [et al.]
Environmental and Experimental Botany, v. 55(3), 2006, p. 315-320
Keywords: Gossypium hirsutum; Transgenic plants; Salinity; Stress; Seedlings; Growth
121. New insight into foliar applied methanol influencing phylloplane methylotrophic dynamics and growth promotion of cotton (*Gossypium hirsutum* L.) and sugarcane (*Saccharum officinarum* L.)/ M. Madhaiyan ... [et al.]
Environmental and Experimental Botany, v. 57(1-2), 2006, p. 168-176
Keywords: Gossypium hirsutum; Saccharum officinarum; Leaves; Chemico-physical properties; Methanol; Pectin; Cytokinins; Growth
122. Oviposition deterrents in larval frass of the cotton boll worm, *Helicoverpa armigera* (Lepidoptera: Noctuidae): Chemical identification and electroantennography analysis/ Haiyan Xu ... [et al.]
Journal of Insect Physiology, v. 52(3), 2006, p. 320-326
Keywords: Helicoverpa armigera; Larvae; Developmental stages; Oviposition; Fatty acids
123. Phosphorus nutrition and tolerance of cotton to water stress: I. Seed cotton yield and leaf morphology/ Vijaya Singh, Charles K Pallaghy, Dhananjay Singh
Field Crops Research, v. 96, Issues 2-3, 30 April 2006, p. 191-198
Keywords: Cotton; Phosphorus; Drought stress; Leaves; Yields

124. Phosphorus nutrition and tolerance of cotton to water stress: II. Water relations, free and bound water and leaf expansion rate/ Vijaya Singh, Charles K. Pallaghy, Dhananjay Singh
Field Crops Research, v. 96, Issues 2-3, 30 April 2006, p. 199-206
Keywords: Moisture content; Water binding capacity; Leaves; Growth rate; Cotton; Phosphorus; Drought stress; Turgor
125. Physical and combustion characteristics of pellet fuel from cotton gin by-products produced by select processing treatments/ G.A. Holt, T.L. Blodgett, F.S. Nakayama
Annual Meeting of the Association for the Advancement of Industrial Crops: The International Conference on Industrial Crops and Rural Development, November 2006, p. 204-213
Keywords: Cotton; Agricultural wastes; Biofuels; Pellet; Byproducts; Value added; Processing; Stove
126. Physiologically based demographics of Bt cotton-pest interactions: I. Pink bollworm resistance, refuge and risk/ Andrew Paul Gutierrez, Sergine Ponsard
Ecological Modelling, v. 191, Issues 3-4, 2006, p. 346-359
Keywords: Cotton; Transgenic plants; Pests of plants; Demographic distribution; Plant resistance; Refuges; Risk assessment
127. Physiologically based demographics of Bt cotton-pest interactions: II. Temporal refuges, natural enemy interactions/ Andrew Paul Gutierrez ... [et al.]
Ecological Modelling, v. 191, Issues 3-4, 2006, p. 360-382
Keywords: Cotton; Transgenic plants; Pests of plants; Natural enemies; Plant resistance; Refuges; Risk assessment
128. Pneumatic conveying characteristics of cotton seeds/ A. Kilickan, M. Guner
Biosystems Engineering, v. 95, Issue 4, 2006, p. 537-546
Keywords: Gossypium hirsutum; Seed; Agronomic characters

129. Response of cotton (*Gossypium hirsutum* L.) to different tillage systems and intra-row spacing/ Mehmet Mert ... [et al.]
Soil and Tillage Research, v. 85, Issues 1-2, 2006, p. 221-228
Keywords: Gossypium hirsutum; Ridge tillage; Conventional tillage; Spacing; Yields; Fibres; Quality
130. Role of juvenile hormone esterase and epoxide hydrolase in reproduction of the cotton bollworm, *Helicoverpa zea*/ Sayed M.S. Khalil, Douglas D. Anspaugh, R. Michael Roe
Journal of Insect Physiology, v. 52, Issue 7, July 2006, p. 669-678
Keywords: Cotton; Pest insects; Helicoverpa zea; Developmental stages; Juvenile hormones; Esterase; Epoxides
131. Somatic embryogenesis and plant regeneration from two recalcitrant genotypes of *Gossypium hirsutum* L./ Yan-xia WANG ... [et al.]
Agricultural Sciences in China, v. 5, Issue 5, May 2006, p. 323-329
Keywords: Gossypium hirsutum; Recalcitrant genotypes; Plant regeneration; Somatic embryogenesis; Culture media; Macronutrients
132. Spatial and temporal expression of N-ethylmaleimide-sensitive factor gene in the nervous system of the cotton bollworm, *Helicoverpa armigera*/ Shuai-Ying Cui, Wen-Qing Zhang, Wei-Hua Xu
Insect Biochemistry and Molecular Biology, v. 36(7), 2006, p. 603-609
Keywords: Cotton; Pest insects; Helicoverpa armigera; Ethylmaleimide; Responses; Neurosecretory cell; Neurohormonal control; Hybridization; Diapause
133. Statistical modelling of acid activation on cotton oil bleaching by Turkish bentonite/ E. Gulsah Kirali, Oral Lacin
Journal of Food Engineering, v. 75, Issue 1, July 2006, p. 137-141
Keywords: Cotton; Oils; Bleaching; Bentonite

134. Suitability of stem diameter variations as an indicator of water stress of cotton/ Ji-yang Zhang ... [et al.]
Agricultural Sciences in China, v. 5, Issue 5, May 2006, p. 356-362
Keywords: Gossypium hirsutum; Stems; Diameter; Drought stress; Climatic factors
135. Surveying kaolin-treated cotton plots with airborne multispectral digital video imagery/ Reginald S. Fletcher, Allan T. Showler
Computers and Electronics in Agriculture, v. 54, Issue 1, 2006, p. 1-1
Keywords: Cotton; Remote sensing; Surveying methods; Electronic imagery
136. Tillage, cover crops, and nitrogen fertilization effects on soil nitrogen and cotton and sorghum yields/ Upendra M. Sainju ... [et al.]
European Journal of Agronomy, v. 25, Issue 4, 2006, p. 372-382
Keywords: Cotton; Sorghum; Tillage; Cover crops; Nitrogen fertilization; Inorganic nitrogen; Yields
137. True summer diapause induced by high temperatures in the cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae)/ Zhudong Liu ... [et al.]
Journal of Insect Physiology, v. 52, Issue 10, 2006, p. 1012-1020
Keywords: Helicoverpa armigera; Climatic factors; Heat; Temperatures; Pupae; Metabolism
138. Use of cotton gin trash to enhance denitrification in restored forested wetlands/ Sami Ullah, Stephen P. Faulkner
Forest Ecology and Management, v. 237, Issues 1-3, 2006, p. 557-563
Keywords: Cotton; Agricultural wastes; Forest areas; Denitrification; Pollution; Water; Quality; Wetlands; Reforestation
139. Use of maize as replacement crop in trifluralin treated cotton fields in Turkey/ Ahmet Uludag ... [et al.]
Crop Protection, v. 25, Issue 3, March 2006, p. 275-280
Keywords: Gossypium hirsutum; Zea mays; Catch crops; Flooding; Varieties; Plant responses

140. Water footprint of cotton consumption: An assessment of the impact of worldwide consumption of cotton products on the water resources in the cotton producing countries/ A.K. Chapagain ... [et al.]
Ecological Economics, v. 60, Issue 1, 1 November 2006, p. 186-203
Keywords: Cotton; Demand; Water resources; Water requirement; Water pollution; Irrigation
141. Water use and lint yield response of drip irrigated cotton to the length of irrigation season/ Fadi Karam ... [et al.]
Agricultural Water Management, v. 85, Issue 3, 2006, p. 287-295
Keywords: Gossypium hirsutum; Irrigation; Evapotranspiration; Water management; Water use efficiency
142. Water-yield relation and water use efficiency of cotton (*Gossypium hirsutum* L.) and second crop corn (*Zea mays* L.) in western Turkey/ Necdet Dagdelen ... [et al.]
Agricultural Water Management, v. 82, Issues 1-2, 2006, p. 63-85
Keywords: Gossypium hirsutum; Zea mays; Water availability; Water deficit; Plant response; Yields
143. Yield and fiber quality of upland cotton as influenced by nitrogen and potassium nutrition/ John J. Read, K. Raja Reddy, Johnie N. Jenkins
European Journal of Agronomy, v. 24, Issue 3, April 2006, p. 282-290
Keywords: Gossypium hirsutum; Micronutrients Nitrogen; Potassium; Deficiency; Yields; Fibres; Chemicophysical properties; Strength; Quality
144. Yield and physiological responses of cotton to partial root-zone rigation in the oasis field of northwest China/ Taisheng Du ... [et al.]
Agricultural Water Management, v. 84, Issues 1-2, 2006, p. 41-52
Keywords: Gossypium hirsutum; Rhizosphere; Irrigation; Water use efficiency; Dry farming; Arid zones; Plant responses; Yields

145. Yield, quality and leaf senescence of cotton grown at varying planting dates and plant densities in the Yellow River Valley of China/ Hezhong Dong ... [et. al.]
Field Crops Research, v. 98, Issues 2-3, 2006, p. 106-115
Keywords: Gossypium hirsutum; Planting date; Plant population; Leaves; Growth; Yields; Fibres; Quality

TEEAL

146. Airborne remote sensing to detect plant water stress in full canopy cotton/ DeTar-W-R. Penner-J-V. Funk-H-A.
Transactions of the ASABE, 2006, 49 (3), p. 655-665
Keywords: Gossypium hirsutum; Plant response; Drought stress; Canopy; Growth
147. Alternative configurations in a cylinder-type cleaner for seed cotton/ Ray-S-J.
Applied Engineering in Agriculture, 2006, 22 (5), p. 643-649
Keywords: Cotton; Seed; Agricultural machinery; Cleaners; Seed defoliation
148. Analysis of energy utilization for sustainable wheat and cotton production in Southeastern Anatolia Region of Turkey/ Oren-M-N. Ozturk-H-H.
Journal of Sustainable Agriculture, 2006, 29 (1), p. 119-130
Keywords: Gossypium hirsutum; Cotton; Wheat; Cultivation; Farming systems; Energy; Efficiency; Production; Turkey
149. Analysis of ESTs from multiple *Gossypium hirsutum* tissues and identification of SSRs/ Taliercio-Earl ... [et al.]
Genome, 2006, 49 (4), p. 306-319
Keywords: Gossypium hirsutum; Genetic engineering; Analytical methods; Tissue culture
150. Antagonism of Trichoderma or Gliocladium species on two phytopathogenic species of Fusarium/ Shoulkamy-M-A. ... [et al.]
Journal of Natural Fibers, 2006, 3 (2-3), p. 1-17
Keywords: Fibres; Cotton; Plant diseases; Pathogenicity; Trichoderma; Gliocladium; Fusarium

151. Are arthropod communities in cotton really disrupted? An assessment of insecticide regimes and evaluation of the beneficial disruption index/ Mansfield-S. ... [et al.]
Agriculture, Ecosystems & Environment, 2006, 113 (1-4), p. 326-335
Keywords: Cotton; Biological control; Integrated control; Pest control; Insecticides; Beneficial organisms; Parasitoids; Predatory insects; Spiders; Australia
152. Assessment of cotton aphids, *Aphis gossypii*, and their natural enemies on aphid-resistant and aphid-susceptible wheat varieties in a wheat-cotton relay intercropping system/ Ma-XiaoMu ... [et al.]
Entomologia Experimentalis et Applicata, 2006, 121 (3), p. 235-241
Keywords: Gossypium hirsutum; Wheat; Intercropping; Aphis gossypii; Pests of plants; Plant responses; Natural enemies; Pest control
153. Association of root-knot nematode resistance genes with simple sequence repeat markers on two chromosomes in cotton/ Ynturi-P. ... [et al.]
Crop Science, 2006, 46 (6), p. 2670-2674
Keywords: Gossypium hirsutum; Chromosome banding; Genetic markers; Nucleotide sequence; Plant nematodes; Plant resistance
154. Binding of three Cry1A toxins in resistant and susceptible strains of cotton bollworm (*Helicoverpa armigera*)/ Shudong Luo ... [et al.]
Pesticide Biochemistry and Physiology, 2006, 85 (2), p. 104-109
Keywords: Helicoverpa armigera; Cry1A; Toxins; Binding proteins; Plant resistance
155. Chromosome structural changes in diploid and tetraploid A genomes of *Gossypium*/ Desai-Aparna ... [et al.]
Genome, 2006, 49 (4), p. 336-345
Keywords: Gossypium hirsutum; Genomes; Chromosome banding; Genetic engineering; Diploidy; Tetraploidy

156. Combined bioscouring and bleaching of cotton fibres/ Tavcer-P-F. Trizman-P. Presa-P.
Journal of Natural Fibers, 2006, 3 (2-3), p. 83-97
Keywords: Cotton; Fibres; Processing; Bioremediation; Bleaching
157. Combined effects of constant versus variable intensity simulated rainfall and reduced tillage management on cotton preemergence herbicide runoff/ Potter-T-L. ... [et al.]
Journal of Environmental Quality, 2006, 35 (5), p. 1894-1902
Keywords: Gossypium hirsutum; Cultivation; Rainfall; Tillage management; Herbicides
158. Comparative growth and yield of cotton planted at various densities and configurations/ Siebert-J-D. Stewart-A-M. Leonard-B-R.
Agronomy Journal, 2006, 98 (3), p. 562-568
Keywords: Gossypium hirsutum; Cultivation; Plant population; Farming systems; Growth; Yields
159. Comparisons of female and egg assays to identify *Rotylenchulus reniformis* resistance in cotton/ Stetina-S-R. Young-L-D.
Journal of Nematology, 2006, 38 (3), p. 326-332
Keywords: Gossypium hirsutum; Rotylenchulus reniformis; Pests of plants; Plant resistance
160. Conservation tillage and cover crop influences on cotton production on a Southeastern U.S. Coastal Plain soil/ Schomberg-H-H. ... [et al.]
Agronomy Journal, 2006, 98 (5), p. 1247-1256
Keywords: Gossypium hirsutum; Cultivation; Conservation tillage; Farming systems; Growth; Yields; Production
161. Construction and characterization of the first bacterial artificial chromosome library for the cotton species *Gossypium barbadense* L./ Wang-X-F. ... [et al.]
Genome, 2006, 49 (11), p. 1393-1398
Keywords: Gossypium barbadense; Genomes; Chromosome binding; Biotechnology

162. Cotton and corn rotation under reduced tillage management: impacts on soil properties, weed control, yield, and net return/ Reddy-K-N. ... [et al.]
Weed Science, 2006, 54 (4), p. 768-774
Keywords: Gossypium hirsutum; Zea mays; Tillage; Cropping systems; Soil chemico-physical properties; Weeds; Weed control; Yields; Production
163. Cotton genetic diversity study by AFLP markers/ Murtaza-Naveed
Electronic Journal of Biotechnology, 2006, 9 (4), p. 456-460
Keywords: Gossypium hirsutum; Varieties; Agronomic characters; Genetic markers; Biotechnology
164. Crop water productivity of cotton (*Gossypium hirsutum* L.)-wheat (*Triticum aestivum* L.) system as influenced by deficit irrigation, soil texture and precipitation/ Jalota-S-K. ... [et al.]
Agricultural Water Management, 2006, 84 (1-2), p. 137-146
Keywords: Gossypium hirsutum; Wheat; Cropping systems; Water productivity; Soil water deficit; Soil texture; Precipitation; Productivity
165. Deriving a simple spectral reflectance ratio to determine cotton leaf water potential/ Kakani-V-G. Reddy-K-R. Zhao-D.
Journal of New Seeds, 2006, 8 (3), p. 11-27
Keywords: Gossypium hirsutum; Leaves; Water requirement; Water potential
166. Design and development of cylinder type cotton pre-cleaner/ Patil-P-G. Arude-V-G. Anap-G-R.
AMA, Agricultural Mechanization in Asia, Africa and Latin America, 2006, 37 (3), p. 46-51
Keywords: Cotton; Postharvest handling; Seed cleaner; Agricultural machinery; Design

167. Design development and performance evaluation of a saw cylinder cleaner for mechanically picked cotton/ Shukla-S-K. Arude-V-G. Patil-P-G.
AMA, Agricultural Mechanization in Asia, Africa and Latin America, 2006, 37 (1), p. 25-29
Keywords: Cotton; Postharvest handling; Seed harvesters; Agricultural machinery; Design
168. Design development and performance evaluation of portable cotton ginning machines/ Patil-P-G. Shukla-S-K. Arude-V-G.
AMA, Agricultural Mechanization in Asia, Africa and Latin America, 2006, 37 (1), p. 30-34
Keywords: Cotton; Postharvest handling; Ginning; Agricultural machinery; Design
169. Development and use of indicators in assessing sustainability of soil and water resources - a case study in the cotton-wheat system of northern India/ Chatterji-S. ... [et al.]
Journal of the Indian Society of Soil Science, 2006, 54 (4), p. 481-484
Keywords: Gossypium hirsutum; Wheat; Cropping systems; Farm resources; Water resources
170. Development of a screening method for drought tolerance in cotton seedlings/ Longenberger-P-S. ... [et al.]
Crop Science, 2006, 46 (5), p. 2104-2110
Keywords: Gossypium hirsutum; Seedlings; Plant selection; Drought tolerance
171. Effect of planting date, mepiquat chloride, and glyphosate application to glyphosate-resistant cotton/ Nuti-R-C. ... [et al.]
Agronomy Journal, 2006, 98 (6), p. 1627-1633
Keywords: Gossypium hirsutum; Planting date; Mepiquat; Glyphosate; Chemical resistance

172. Effect of tillage systems on weed control, yield and fibre quality of upland (*Gossypium hirsutum* L.) and Asiatic tree cotton (*G. arboreum* L.)/ Blaise-D.
Soil & Tillage Research, 2006, 91 (1-2), p. 207-216
Keywords: Gossypium hirsutum; Gossypium arboreum; Weeds; Biomass; Weed control; Nitrogen; Vertisols; Conservation tillage; Yields; Fibres; Strength; Quality
173. Effects of nocturnal soil temperatures and *Meloidogyne incognita* densities on cotton seedling growth and the interaction with *Thielaviopsis basicola*/ Monfort-W-S. Kirkpatrick-T-L. Rothrock-C-S.
Plant Disease, 2006, 90 (4), p. 519-522
Keywords: Gossypium hirsutum; Seedlings; Soil temperatures; Meloidogyne incognita; Thielaviopsis basicola; Noctuidae; Growth
174. Effects of ultrasound on the performance of industrial enzymes used in cotton bio-preparation/bio-finishing applications/ Yachmenev-V-G. Calamari-Jr-T. Lambert-A-H.
Journal of Natural Fibers, 2006, 3 (2-3), p. 99-112
Keywords: Cotton; Fibres; Processing; Enzymes; Ultrasonic; Chemicophysical properties
175. Efficacy of a novel nematicidal seed treatment against *Meloidogyne incognita* on cotton/ Monfort-W-S. ... [et al.]
Journal of Nematology, 2006, 38 (2), p. 245-249
Keywords: Gossypium hirsutum; Seed treatment; Meloidogyne incognita; Nematicides
176. Environmental and cost efficiency of pesticide use in transgenic and conventional cotton production/ Wossink-A. Denaux-Z-S.
Agricultural Systems, 2006, 90 (1-3), p. 312-328
Keywords: Gossypium hirsutum; Transgenic plants; Pesticides; Cost analysis; Environmental factors; Efficiency

177. Environmental impact of conventional and Bt insecticidal cotton expressing one and two Cry genes in Australia/ Knox-O-G-G. ... [et al.]
Australian Journal of Agricultural Research, 2006, 57 (5), p. 501-509
Keywords: Gossypium hirsutum; Transgenic plants; Genetic markers; Environmental impacts; Australia
178. Environmental impact of genetically modified cotton in South Africa/ Morse-S. Bennett-R. Ismael-Y.
Agriculture, Ecosystems & Environment, 2006, 117 (4), p. 277-289
Keywords: Gossypium hirsutum; Transgenic plants; Genetic markers; Environmental impacts; South Africa
179. Evaluating high-resolution QuickBird satellite imagery for estimating cotton yield/ Yang-C. Everitt-J-H. Bradford-J-M.
Transactions of the ASABE, 2006, 49 (5), p. 1599-1606
Keywords: Gossypium hirsutum; Satellite imagery; Yields; Productivity
180. Evaluation of cotton germ plasm for resistance to the whitefly and cotton leaf crumple (CLCr) disease and etiology of CLCr in California's Imperial Valley/ Seo-Y-S. ... [et al.]
Plant Disease, 2006, 90 (7), p. 877-884
Keywords: Gossypium hirsutum; Germplasm; Plant diseases; Disease resistance
181. Exploring the limitations for cotton growth and yield/ Reddy-K-R. Hodges-H-F.
Journal of New Seeds, 2006, 8 (2), p. 1-22
Keywords: Gossypium hirsutum; Cultivation; Growth; Yields
182. First report of cotton leaf curl disease in central and southern Sindh Province in Pakistan/ Mansoor-S. ... [et al.]
Plant Disease, 2006, 90 (6), p. 826
Keywords: Gossypium hirsutum; Leaf curls; Plant diseases; Pakistan

183. First report of endophytic *Candida ipomoeae* isolated from ovules of upland cotton in Mississippi/Sacks-E-J. Abbas-H-K. Mengistu-A. *Plant Disease*, 2006, 90 (10), p. 1362
Keywords: Gossypium hirsutum; Candida ipomoeae; Endophytes; Plant diseases; Mississippi
184. Fusarium wilt of cotton: population diversity and implications for management/ Davis-R-M. ... [et al.]
Plant Disease, 2006, 90 (6), p. 692-703
Keywords: Gossypium hirsutum; Fusarium; Wilts; Plant diseases; Disease control
185. Fusarium wilt resistance gene in *Gossypium barbadense* and its effect on root-knot nematode-wilt disease complex/ Wang-C. Roberts-P-A.
Phytopathology, 2006, 96 (7), p. 727-734
Keywords: Gossypium barbadense; Fusarium; Wilts; Nematodes; Plant diseases; Disease resistance
186. Genetic variation for agronomic and fiber properties in an introgressed recombinant inbred population of cotton/ Percy-R-G. Cantrell-R-G. Zhang-J-F.
Crop Science, 2006, 46 (3), p. 1311-1317
Keywords: Gossypium hirsutum; Varieties; Genetic variation; Agronomic characters; Fibres; Yields
187. GhSEM-1 marker potentially associated with regeneration ability in cotton/ Altaf-Khan-M. ... [et al.]
Journal of Crop Improvement, 2006, 16 (1-2), p. 21-35
Keywords: Gossypium hirsutum; Genetic markers; Agronomic characters; Plant regeneration
188. GIS-based approach for areawide pest management: the scales of *Lygus hesperus* movements to cotton from alfalfa, weeds, and cotton/ Carriere-Y. ... [et al.]
Entomologia Experimentalis et Applicata, 2006, 118 (3), p. 203-210
Keywords: Gossypium hirsutum; Lygus hesperus; Pest insects; Movement; Weeds; Pest control; Geographical information systems

189. Ground-based sensing system for cotton nitrogen status determination/ Sui-R. Thomasson-J-A.
Transactions of the ASABE, 2006, 49 (6), p. 1983-1991
Keywords: Gossypium hirsutum; Nitrogen; Soil fertility; Soil analysis; Analytical methods
190. Growth and development of cotton plant under different sowing configurations/ Silva-A-V. Chiavegato-E-J. Carvalho-L-H.
Bragantia, 2006, 65 (3), p. 407-411
Keywords: Gossypium hirsutum; Sowing; Cropping systems; Growth; Productivity
191. Hydraulically based stomatal oscillations and stomatal patchiness in *Gossypium hirsutum*/ Marenco-R-A. ... [et al.]
Functional Plant Biology, 2006, 33 (12), p. 1103-1113
Keywords: Gossypium hirsutum; Stomata; Respiration; Plant morphology
192. Hydrology of Vertosols used for cotton production: II. Pedotransfer functions to predict hydraulic properties/ Vervoort-R-W. Minasny-B. Cattle-S-R.
Australian Journal of Soil Research, 2006, 44 (5), p. 479-486
Keywords: Gossypium hirsutum; Vertisols; Hydrology; Water availability; Production
193. Influence of plant density on cotton response to mepiquat chloride application/ Siebert-J-D. Stewart-A-M.
Agronomy Journal, 2006, 98 (6), p. 1634-1639
Keywords: Gossypium hirsutum; Plant population; Spacing; Mepiquat; Application rates; Plant responses
194. Integrated enzymatic pre-treatment of cotton fabrics/ S-Ledakowicz-J. Lichawska-J. Pyc-R.
Journal of Natural Fibers, 2006, 3 (2-3), p. 199-207
Keywords: Cotton; Textile; Processing; Enzymes
195. Integrated web resource for cotton/ Gingle-A-R. ... [et al.]
Crop Science, 2006, 46 (5), p. 1998-2007
Keywords: Cotton; Integrated plant production; Software

196. Interspecific competition in a pecan-cotton alleycropping system in the southern United States: Production physiology/ Zamora-Diomides-S. ... [et al.]
Canadian Journal of Botany, 2006, 84 (11), p. 1686-1694
Keywords: Gossypium hirsutum; Pecan; Alley cropping; Plant competition; Yields
197. Irrigation and soil management strategies for using saline-sodic water in a cotton-wheat rotation/ Murtaza-G. Ghafoor-A. Qadir-M.
Agricultural Water Management, 2006, 81 (1-2), p. 98-114
Keywords: Gossypium hirsutum; Wheat; Cropping systems; Salinity; Farmyard manure; Gypsum; Plant production
198. Low soil moisture planting of cotton for optimum emergence/ Bowers-C-G-Jr. Collins-C-A. Harris-E-P.
Applied Engineering in Agriculture, 2006, 22 (6), p. 801-808
Keywords: Cotton; Soil moisture; Drought stress; Productivity
199. Machine innovation for inter row cotton cultivation in Uzbekistan/ Amonov-M-O. Pulatov-A-S. Colvin-T-S.
Applied Engineering in Agriculture, 2006, 22 (5), p. 665-674
Keywords: Cotton; Cultivation; Cultivators
200. Microbial communities in the larval midgut of laboratory and field populations of cotton bollworm (*Helicoverpa armigera*)/ Hui-Xiang ... [et al.]
Canadian Journal of Microbiology, 2006, 52 (11), p. 1085-1092
Keywords: Helicoverpa armigera; Pest insects; Population dynamics; Larvae; Microbial properties
201. Modeling water-stressed cotton growth using within-season remote sensing data/ Ko-J-H. ... [et al.]
Agronomy Journal, 2006, 98 (6), p. 1600-1609
Keywords: Gossypium hirsutum; Drought resistance; Water availability; Remote sensing; Data analysis

202. Molecular cloning and characterization of *Gossypium hirsutum* superoxide dismutase genes during cotton D *Xanthomonas campestris* pv. *malvacearum* interaction/ Voloudakis-A-E. ... [et al.] *Physiological and Molecular Plant Pathology*, 2006, 68 (4-6), p. 119-127
Keywords: Gossypium hirsutum; Xanthomonas campestris; Molecular genetics; Cloning; Gene mutation
203. Nitrogen fertilization and yield of cotton in ultra-narrow and conventional row spacings/ Clawson-E-L. Cothren-J-T. Blouin-D-C. *Agronomy Journal*, 2006, 98 (1), p. 72-79
Keywords: Gossypium hirsutum; Cropping system; Spacing; Nitrogen fertilizers; Fertilizing; Yields
204. Optimisation of machine parameters of pneumatic knapsack cotton picker/ Rangasamy-K. Muthamilselvan-M. Durairaj-C-D. *AMA, Agricultural Mechanization in Asia, Africa and Latin America*, 2006, 37 (3), p. 9-14
Keywords: Cotton; Agricultural machinery; Picking; Machine performance
205. Peroxidative coupling of hemigossypol to (+)- and (-)-gossypol in cottonseed extracts/ Benedict-C-R. Liu-J-G. Stipanovic-R-D. *Phytochemistry*, 2006, 67 (4), p. 356-361
Keywords: Gossypium hirsutum; Malvaceae; Cotton; Peroxidative coupling; Extracts; Chemical properties
206. Phenotypic expression of rkn1-mediated *Meloidogyne incognita* resistance in *Gossypium hirsutum* populations/ Wang-C. Matthews-W-C. Roberts-P-A. *Journal of Nematology*, 2006, 38 (2), p. 250-257
Keywords: Gossypium hirsutum; Meloidogyne incognita; Population; Plant resistance; Phenotypic; Gene expression

207. Physiological and antioxidant responses of cotton and spurred anoda (*Anoda cristata*) under nitrogen deficiency/ Bettmann-G-T. ... [et al.]
Weed Science, 2006, 54 (4), p. 641-650
Keywords: Gossypium hirsutum; Weeds; Anoda cristata; Nitrogen; Antioxidant; Chemicophysical properties
208. Plant density modifications of cotton within-boll yield components/ Bednarz-C-W. Nichols-R-L. Brown-S-M.
Crop Science, 2006, 46 (5), p. 2076-2080
Keywords: Gossypium hirsutum; Plant population; Spacing; Yield components
209. Plant density modifies within-canopy cotton fiber quality/ Bednarz-C-W. Nichols-R-L. Brown-S-M.
Crop Science, 2006, 46 (2), p. 950-956
Keywords: Gossypium hirsutum; Plant population; Spacing; Canopy; Growth; Yields; Fibres; Quality
210. Potential for weediness of Bt cotton in northern Australia/ Eastick-R-J. Hearnden-M-N.
Weed Science, 2006, 54 (6), p. 1142-1151
Keywords: Gossypium hirsutum; Transgenic plants; Weeds; Plant resistance
211. Potential interaction of pendimethalin and systemic insecticides for thrips control in cotton/ Grey-T-L. ... [et al.]
Agronomy Journal, 2006, 98 (1), p. 141-147
Keywords: Gossypium hirsutum; Thrips; Pest control; Insecticides; Pendimethalin
212. Production of cellulase-free polygalacturonase preparation by *Sclerotium rolfsii* for bioscouring of cotton/ Schnitzhofer-W. ... [et al.]
Journal of Natural Fibers, 2006, 3 (2-3), p. 19-38
Keywords: Gossypium hirsutum; Sclerotium rolfsii; Cellulose; Biotechnology; Polygalacturonase; Production

213. Quantifying potential tolerance of selected cotton cultivars to *Belonolaimus longicaudatus*/ Koenning-S-R.Bowman-D-T. Morris-R-H.
Journal of Nematology, 2006, 38 (2), p. 187-191
Keywords: Gossypium hirsutum; Varieties; Plant selection; Plant resistance; Nematodes; Belonolaimus longicaudatus
214. Reproduction of *Meloidogyne incognita* on winter cover crops used in cotton production/ Timper-P. Davis-R-F. Tillman-P-G,
Journal of Nematology, 2006, 38 (1), p. 83-89
Keywords: Gossypium hirsutum; Cover crops; Seasonal crops; Meloidogyne incognita; Nematodes; Control methods; Production
215. Residual effects of cotton-based crop rotations on soil properties of irrigated Vertosols in central-western and north-western New South Wales/ Hulugalle-N-R. Weaver-T-B. Finlay-L-A.
Australian Journal of Soil Research, 2006, 44 (5), p. 467-477
Keywords: Gossypium hirsutum; Crop rotation; Agricultural chemicals; Residues; Soil analysis; Chemicophysical properties; Vertisols
216. Resistance-type portable cotton lint moisture meter/ Byler-R-K.
Applied Engineering in Agriculture, 2006, 22 (1), p. 13-17
Keywords: Gossypium hirsutum; Plant resistance; Lint; Moisture content; Quality
217. Response of cotton (*Gossypium hirsutum* L.) to different tillage systems and intra-row spacing/ Mert-M. ... [et al.]
Soil & Tillage Research, 2006, 85 (1-2), p. 221-228
Keywords: Gossypium hirsutum; Tillage; Cropping systems; Growth; Productivity

218. Seed cotton moisture conditioning using an atomizing nozzle in the conveyer-distributor/ Byler-R-K. Boykin-J-C.
Applied Engineering in Agriculture, 2006, 22 (6), p. 819-826
Keywords: Cotton; Seeds; Postharvest handling; Agricultural machinery; Treatment; Moisture content
219. Soil management and landscape variability affects field-scale cotton productivity/ Terra-J-A. ... [et al.]
Soil Science Society of America Journal, 2006, 70 (1), p. 98-107
Keywords: Cotton; Plantation; Soil management; Lanscaping; Farming systems; Productivity
220. Soil organic carbon sequestration in cotton production systems of the Southeastern United States: a review/ Causarano-H-J. ... [et al.]
Journal of Environmental Quality, 2006, 35 (4), p. 1374-1383
Keywords: Cotton; Organic carbon; Soil analysis; Production systems
221. Spatial and temporal dynamics of oviposition behavior of bollworm and three of its predators in Bt and non-Bt cotton fields/ Torres-J-B. Ruberson-J-R
Entomologia Experimentalis et Applicata, 2006, 120 (1), p. 11-22
Keywords: Gossypium hirsutum; Transgenic plants; Pests of plants; Oviposition; Predators; Pest control
222. Spatial distribution of *Aspergillus flavus* and its toxigenic strains on commercial cottonseed from south Texas and its relationship to aflatoxin contamination/ Jaime-Garcia-R. Cotty-P-J.
Plant Pathology, 2006, 55 (3), p. 358-366
Keywords: Cotton; Seeds; Aspergillus flavus; Toxicity; Aflatoxin contamination
223. Spurred anoda (*Anoda cristata*) interference in wide row and ultra narrow row cotton/ Molin-W-T. ... [et al.]
Weed Science, 2006, 54 (4), p. 651-657
Keywords: Gossypium hirsutum; Anoda cristata; Plant competition; Cropping systems; Weed control

224. Suppression of *Rotylenchulus reniformis* 122-cm deep endorses resistance introgression in *Gossypium*/ Robinson-A-F. ... [et al.]
Journal of Nematology, 2006, 38 (2), p. 195-209
Keywords: Gossypium hirsutum; Nematodes; Rotylenchulus reniformis; Integrated control; Plant resistance
225. Temporal variation in arthropod sampling effectiveness: the case for using the beat sheet method in cotton/ Wade-M-R. ... [et al.]
Entomologia Experimentalis et Applicata, 2006, 120 (2), p. 139-153
Keywords: Cotton; Pest insects; Anthropods; Movement; Analytical methods
226. Thermal dependence of bioengineered glufosinate tolerance in cotton/ Mahan-J-R. ... [et al.]
Weed Science, 2006, 54 (1), p. 1-5
Keywords: Gossypium hirsutum; Glufosinate; Chemical resistance; Heat tolerance; Biotechnology
227. Tropospheric ozone and interspecific competition between yellow nutsedge and Pima cotton/ Grantz-D-A. Shrestha-A.
Crop Science, 2006, 46 (5), p. 1879-1889
Keywords: Gossypium hirsutum; Nutsedge; Varieties; Cropping systems; Plant competition; Tropospheric; Ozone; Atmospheric impacts
228. Understanding the mechanisms employed by *Trichoderma virens* to effect biological control of cotton diseases/ Howell-C-R.
Phytopathology, 2006, 96 (2), p. 178-180
Keywords: Gossypium hirsutum; Trichoderma virens; Plant diseases; Disease control; Biological control
229. Usefulness of SSR derived from tetraploid *Gossypium* spp. for analyses of diploid *Gossypium* spp./ Altaf-Khan-M. ... [et al.]
Journal of Crop Improvement, 2006, 16 (1-2), p. 1-20
Keywords: Gossypium; Diploidy; Tetraploidy; Genetic engineering

230. Water distribution from a subsurface drip irrigation system and dripline spacing effect on cotton yield and water use efficiency in a Coastal Plain soil/ Grabow-G-L. ... [et al.]
Transactions of the ASABE, 2006, 49 (6), p. 1823-1835
Keywords: Gossypium hirsutum; Surface water; Trickle irrigation; Water use; Efficiency; Yields
231. Water use and lint yield response of drip irrigated cotton to the length of irrigation season/ Karam-F. ... [et al.]
Agricultural Water Management, 2006, 85 (3), p. 287-295
Keywords: Gossypium hirsutum; Trickle irrigation; Water use; Climatic factors; Yields
232. Water-yield relation and water use efficiency of cotton (*Gossypium hirsutum* L.) and second crop corn (*Zea mays* L.) in western Turkey/ Dagdelen-N. ... [et al.]
Agricultural Water Management, 2006, 82 (1-2), p. 63-85
Keywords: Gossypium hirsutum; Zea mays; Cropping systems; Water availability; Water use; Efficiency; Yields
233. Weed management practices in glyphosate-tolerant and conventional cotton fields in Australia/ Werth-J-A. ... [et al.]
Australian Journal of Experimental Agriculture, 2006, 46 (9), p. 1177-1183
Keywords: Gossypium hirsutum; Glyphosate; Weeds; Weed control; Growth
234. Winter cereal cover crop mulches and inter-row cultivation effects on cotton development and grass weed suppression/ Vasilakoglou-I. ... [et al.]
Agronomy Journal, 2006, 98 (5), p. 1290-1297
Keywords: Gossypium hirsutum; Cereal crops; Cover crops; Cropping systems; Mulches; Weeds; Growth

2007

Science Direct

235. Assessing impacts of surge-flow irrigation on water saving and productivity of cotton/ M.G. Horst ... [et al.]
Agricultural Water Management, v. 87, Issue 2, 2007, p. 115-127
Keywords: Water use; Water productivity; Efficiency; Distribution; Irrigation
236. Assessing the profitability of different crop protection strategies in cotton: Case study results from Shandong Province, China/ D. Pems, H. Waibel
Agricultural Systems, v. 95, Issues 1-3, December 2007, p. 28-36
Keywords: Gossypium hirsutum; Transgenic plants; Profitability; Uncertainty; Simulation model; China
237. Benefits of site-specific subsoiling for cotton production in Coastal Plain soils/ R.L. Raper...[et al.]
Soil and Tillage Research, v. 96, Issues 1-2, October 2007, p.174-181
Keywords: Site-specific; Precision agriculture; Subsoiling; Soil compaction; Draft; Drawbar power
238. Citric acid treatment of flax, cotton and blended nonwoven mats for copper ion absorption/ Wayne E. Marshall...[et al.]
Industrial Crops and Products, v. 26, Issue 1, June 2007, p. 8-13
Keywords: Flax; Flax/cotton blends; Cotton; Citric acid treatment; Nonwoven mats
239. Cloning and Expression Analysis of a Brassinosteroid Biosynthetic Enzyme Gene, GhDWF1, from Cotton (*Gossypium hirsutum* L.)/ Ming LUO ... [et al.]
Agricultural Sciences in China, v. 6, Issue 11, November 2007, p. 1297-1305
Keywords: Cotton; DWARF1 gene; Fibres; Brassinosteroids; Phytosterol

240. Canopy reflectance in cotton for growth assessment and lint yield prediction/ Duli Zhao ... [et al.]
European Journal of Agronomy, v. 26, Issue 3, April 2007, p. 335-344
Keywords: Cotton; *Gossypium hirsutum*; Leaf area index; Aboveground biomass; N fertilizer rate; Lint yield; Canopy reflectance; Remote sensing
241. Cloning and expressing of a gene encoding cytosolic copper zinc superoxide dismutase in the upland cotton/ Gen-hai HU ... [et al.]
Agricultural Sciences in China, v. 6, Issue 5, May 2007, p. 536-544
Keywords: Cotton; Copperzinc superoxide dismutase; Gene; Cloning
242. Changes in homogalacturonans and enzymes degrading them during cotton cotyledon expansion/ Zhiquan Zhang, Margaret L. Pierce, Andrew J. Mort
Phytochemistry, v. 68, Issue 8, April 2007, p. 1094-1103
Keywords: Cell walls; Endo-polygalacturonase; Exo-polygalacturonase; *Gossypium*; Malvaceae; Growth; Pectin
243. Characterization of *Bacillus thuringiensis* isolates toxic to cotton boll weevil (*Anthonomus grandis*)/ Erica Soares Martins ... [et al.]
Biological Control, v. 40, Issue 1, January 2007, p. 65-68
Keywords: *Bacillus thuringiensis*; *Anthonomus grandis*; Biological control; Toxicity; Cry genes
244. Characterization of vine shoots, cotton stalks, *Leucaena leucocephala* and *Chamaecytisus proliferus*, and of their ethyleneglycol pulps/ Luis Jimenez ... [et al.]
Bioresource Technology, v. 98, Issue 18, 2007, p. 3487-3490
Keywords: Non-wood; Pulping; Ethyleneglycol; Pulp; Paper
245. Comparison of chemical pretreatment methods for improving saccharification of cotton stalks/ Rebecca A. Silverstein ... [et al.]
Bioresource Technology, v. 98, Issue 16, 2007, p. 3000-3011
Keywords: Delignification; Bioethanol; Modeling; Lignocellulose; Enzymatic hydrolysis

246. Containment of regulated genetically modified cotton in the field/
Danny Llewellyn ... [et al.]
Agriculture, Ecosystems & Environment, v. 121(4), 2007, p. 419-429
Keywords: Bioconfinement; Biosafety; Gene flow; Honeybees; Insect vectors; Pollen dispersal; Pollen traps
247. Cover crop effect on soil carbon fractions under conservation tillage cotton/ Upendra M. Sainju ... [et al.]
Soil and Tillage Research, v. 96, Issues 1-2, 2007, p. 205-218
Keywords: Cover crop; Organic carbon; Microbial carbon; Carbon mineralization; On-farm study; Soil quality; Cropping system
248. Chemical modification of cotton cellulose in supercritical carbon dioxide: Synthesis and characterization of cellulose carbamate/ Cuiyu Yin ... [et al.]
Carbohydrate Polymers, v. 67, Issue 2, 22 January 2007, p. 147-154
Keywords: Supercritical CO₂; Cellulose; Esterification; Cellulose carbamate; Nitrogen content
249. Degradation kinetics of pectins by an alkaline pectinase in bioscouring of cotton fabrics/ Qiang Wang ... [et al.]
Carbohydrate Polymers, v. 67, Issue 4, 19 February 2007, p. 572-575
Keywords: Degradation; Kinetics; Pectin; Pectinase; Bioscouring; Cotton
250. Elaboration and test of a decision rule for the application of mepiquat chloride on cotton in Mali/ Anne Barrabe ... [et al.]
European Journal of Agronomy, v. 27(2-4), 2007, p. 197-204
Keywords: Decision rule; Cropping system; Growth regulator; Cotton; Mali

251. Enhanced plant growth, development and fiber yield of Bt transgenic cotton by an integration of plastic mulching and seedling transplanting/ Hezhong Dong ... [et al.]
Industrial Crops and Products, v. 26, Issue 3, 2007, p. 298-306
Keywords: Bt transgenic cotton; Fiber yield; Plant growth; Plastic mulching; Seedling transplanting
252. Effect of reactive dyes upon the uptake and antibacterial efficacy of poly(hexamethylene biguanide) on cotton. Part 3: Reduction in the antibacterial efficacy of poly(hexamethylene biguanide) on cotton, dyed with bis(monochlorotriazinyl) reactive dyes/ Atsuko Kawabata, John A. Taylor
Carbohydrate Polymers, v. 67, Issue 3, 1 February 2007, p. 375-389
Keywords: Poly(hexamethylene biguanide); Antibacterial; Reactive dyes; Cellulose
253. Effect of timing of first and last irrigation on the yield and water use efficiency in cotton/ G.S. Buttar ... [et al.]
Agricultural Water Management, v. 89, Issue 3, 2007, p. 236-242
Keywords: Cotton; First irrigation; Last irrigation; Seed cotton yield; Water expense efficiency
254. Effect of trans-*Bacillus thuringiensis* gene on gibberellic acid and zeatin contents and boll development in cotton/ Yuan Chen ... [et al.]
Field Crops Research, v. 103, Issue 1, 25 July 2007, p. 5-10
Keywords: Bt cotton; Boll development; Endogenous hormone; Gibberellic acid; Zeatin
255. Effects of larval host plants on over-wintering preparedness and survival of the cotton bollworm, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae)/ Zhudong Liu ... [et al.]
Journal of Insect Physiology, v. 53, Issue 10, 2007, p. 1016-1026
Keywords: Helicoverpa armigera; Host plants; Reserve storage; Over-wintering preparedness; Survival

256. Enzymatic production of biodiesel from cotton seed oil using t-butanol as a solvent/ D. Royon ... [et al.]
Bioresource Technology, v. 98, Issue 3, 2007, p. 648-653
Keywords: Biodiesel; Lipase; t-Butanol; Novozym 435; Methanol; Cotton seed oil
257. Evaluation of FAO-56 crop coefficient procedures for deficit irrigation management of cotton in a humid climate/ Ayman A. Suleiman, Cecilia M. Tojo Soler, Gerrit Hoogenboom
Agricultural Water Management, v. 91, Issues 1-3, 2007, p. 33-42
Keywords: Drip irrigation; DSSAT; Irrigation efficiency; Irrigation scheduling; Penman-Monteith; Southeastern USA
258. Estimating aboveground fresh biomass of different cotton canopy types with homogeneity models based on hyper spectrum parameters/ Jun-hua BAI ... [et al.]
Agricultural Sciences in China, v. 6, Issue 4, 2007, p. 437-445
Keywords: Canopy; Cotton; AGB; Hyperspectrum parameters; Homogeneity estimation models
259. Flax-cotton fiber blends: Miniature spinning, gin processing, and dust potential/ Jonn A. Foulk ... [et al.]
Industrial Crops and Products, v. 25, Issue 1, January 2007, p. 8-16
Keywords: Cotton; Blends; Dust; Strength; Flax; Ginning
260. Genetic relationships of D-genome species based on two types of EST-SSR markers derived from *G. arboreum* and *G. raimondii* in Gossipier/ W.Z. Guo ... [et al.]
Plant Science, v. 172, Issue 4, April 2007, p. 808-814
Keywords: Gossipier Houzingenia; Cotton; EST-SSR; Genetic relationship
261. Genetic variation among cotton (*G. hirsutum* L.) cultivars for motes, seed-coat fragments and loading force/Yuksel Bolek, Mustafa Oglakci, Kamil Ozdin
Field Crops Research, v. 101, Issue 2, 5 March 2007, p. 155-159
Keywords: Cotton; Mote; Resistance; Seed coat; Seed quality

262. Glyphosate-induced male sterility in glyphosate-resistant cotton (*Gossypium hirsutum* L.) is associated with inhibition of anther dehiscence and reduced pollen viability/ Hagai Yasuor, Joseph Riov, Baruch Rubin
Crop Protection, v. 26, Issue 3, Weed Science in Time of Transition, March 2007, p. 363-369
Keywords: Glyphosate; Cotton; Gossypium hirsutum; Flowers; Stigma; Anthers; Pollen
263. Growth and eco-physiological performance of cotton under water stress conditions/ Chun-yan WANG ... [et al.]
Agricultural Sciences in China, v. 6, Issue 8, August 2007, p. 949-955
Keywords: Cotton; Ecology; Plant performance; Water stress; Transpiration; Stomatal aperture
264. Growth, yield and quality of wheat and cotton in relay strip intercropping systems/ L. Zhang ... [et al.]
Field Crops Research, v. 103, Issue 3, 13 September 2007, p. 178-188
Keywords: Crop growth analysis; Grain yield; Lint yield; Land use; Fiber quality; Expolinear growth equation; Competition; Growth delay
265. *Helicoverpa armigera* baseline susceptibility to *Bacillus thuringiensis* Cry toxins and resistance management for Bt cotton in India/G.T. Gujar ... [et al.]
Journal of Invertebrate Pathology, v. 95, Issue 3, Special Issue for SIP 2007, SIP 2007, July 2007, p. 214-219
Keywords: Cotton bollworm; Helicoverpa armigera; Bacillus thuringiensis; Cry toxins; Plant resistance
266. Induction of microsomal NADPH:cytochrome P450 and NADH:cytochrome b5 reductases by long-term salt treatment of cotton (*Gossypium hirsutum* L.) and bean (*Phaseolus vulgaris* L.) plants/ Liliana Brankova, Sergei Ivanov, Vera Alexieva
Plant Physiology and Biochemistry, v. 45, Issue 9, 2007, p. 691-695
Keywords: Gossypium hirsutum; Phaseolus vulgaris; Chromosome; Salinity; Stress

267. Insect resistance management for Syngenta's VipCot(TM) transgenic cotton/ Ryan W. Kurtz, Alan McCaffery, David O'Reilly
Journal of Invertebrate Pathology, v. 95, Issue 3, Special Issue for SIP 2007, SIP 2007, July 2007, p. 227-230
Keywords: Bacillus thuringiensis; Insect resistance; Pest control; Integrated control; Vip3A; Helicoverpa zea; Heliothis virescens
268. Insecticidal properties of bistrifluron, benzoylphenylurea insecticide, against cotton caterpillar, *Palpita indica* (Lepidoptera: Pyralidae)/ Min-Ki Kim ... [et al.]
Journal of Asia-Pacific Entomology, v. 10, Issue 3, 2007, p. 269-274
Keywords: Bistrifluron; Chlorfluazuron; Benzoylphenylurea; Palpita indica
269. Identification of genes preferentially expressed in cotton fibers: A possible role of calcium signaling in cotton fiber elongation/Peng Gao ... [et al.]
Plant Science, v. 173, Issue 1, July 2007, p. 61-69
Keywords: Cotton; Fibres; Elongation; Suppression subtractive hybridization
270. Impact of introducing the *Bacillus thuringiensis* gene into cotton on boll nitrogen metabolism/ Xiang Zhang ... [et al.]
Environmental and Experimental Botany, v. 61(2), 2007, p. 175-180
Keywords: Cotton; Bacillus thuringiensis; Gene; Nitrogen metabolism
271. Influence of the *Verticillium dahliae* Kleb infection on the anti-enzyme Inside the body of the cotton with different root injured degree/ Wei-wei FAN ... [et al.]
Agricultural Sciences in China, v. 6, Issue 7, July 2007, p. 816-824
Keywords: Gossypium hirsutum; Cotton; Plant disease; Verticillium dahliae; Injury of root; Disease control

272. Impact of a no-till with mulch soil management strategy on soil macrofauna communities in a cotton cropping system/T. Brevault ... [et al.]
Soil and Tillage Research, v. 97, Issue 2, December 2007, p. 140-149
Keywords: Soil; Macrofauna; Conservation agriculture; No tillage; Cover crop; Cotton; Africa
273. Modelling the role of refuges for sustainable management of dual-gene Bt Cotton in West African smallholder farming systems/Samuel Nibouche ... [et al.]
Crop Protection, v. 26, Issue 6, June 2007, p. 828-836
Keywords: Transgenic crop; Resistance; Model; Helicoverpa armigera; Cotton
274. Modulation of Rubisco activase gene expression during heat stress in cotton (*Gossypium hirsutum* L.) involves post-transcriptional mechanisms/ Benjamin P. DeRidder, Michael E. Salvucci
Plant Science, v. 172, Issue 2, February 2007, p. 246-254
Keywords: Rubisco activase; Heat stress; Photosynthesis; Cotton; Gene expression; Nuclear run-on
275. Monitoring and adaptive resistance management in Australia for Bt-cotton: Current status and future challenges/ Sharon Downes, Rod Mahon, Karen Olsen
Journal of Invertebrate Pathology, v. 95, Issue 3, Special Issue for SIP 2007, SIP 2007, July 2007, p. 208-213
Keywords: Bacillus thuringiensis; Cotton; Resistance; Helicoverpa armigera; Australia
276. Multifunctional properties of cotton fabric treated with chitosan and carboxymethyl chitosan/ Deepti Gupta, Adane Haile
Carbohydrate Polymers, v. 69, Issue 1, 1 May 2007, p. 164-171
Keywords: Antibacterial activity; Chitosan; Basic dyeable cotton; Multifunctional finish

277. Monitoring and management strategy for *Helicoverpa armigera* resistance to Bt cotton in China/ Kongming Wu
Journal of Invertebrate Pathology, v. 95, Issue 3, Special Issue for SIP 2007, SIP 2007, July 2007, p. 220-223
Keywords: Bt cotton; Helicoverpa armigera; Resistance management; Natural refugia
278. Metabolism of reactive oxygen species in the cytoplasmic male-sterile cotton anther/ Pei-dong JIANG ... [et al.]
Agricultural Sciences in China, v. 6, Issue 3, March 2007, p. 275-280
Keywords: Cotton; Cytoplasmic male sterility; Reactive oxygen species
279. Nine [9]-lipoxygenase GhLOX1 gene is associated with the hypersensitive reaction of cotton *Gossypium hirsutum* to *Xanthomonas campestris* pv *malvacearum*/ Philippe Marmey ... [et al.]
Plant Physiology and Biochemistry, v. 45, Issue 8, August 2007, p. 596-606
Keywords: Lipoxygenase; Hypersensitive reaction; Xanthomonas campestris; Gossypium hirsutum; Methyl jasmonate; Salicylic acid
280. Overexpression of a foreign Bt gene in cotton affects the low-molecular-weight components in root exudates/ Wei-Dong YAN ... [et al.]
Pedosphere, v. 17, Issue 3, June 2007, p. 324-330
Keywords: Gene Overexpression; Low-Molecular-Weight components; Nutritional status; Root exudates; Transgenic cotton
281. Ploughing frequency and compost application effects on soil infiltrability in a cotton-maize (*Gossypium hirsutum*Zea mays L.) rotation system on a Ferric Luvisol and a Ferric Lixisol in Burkina Faso/ K. Ouattara ... [et al.]
Soil and Tillage Research, v. 95, Issues 1-2, 2007, p. 288-297
Keywords: Ploughing frequency; Compost; Cotton-maize; Burkina Faso

282. Prediction of the naturalisation potential and weediness risk of transgenic cotton in Australia/ D. John Rogers ... [et al.]
Agriculture, Ecosystems & Environment, v. 119, Issues 1-2, February 2007, p. 177-189
Keywords: Bollgard II(R); Roundup Ready(R) Flex; Climex; Inferential modelling; Climate matching; Familiarity; Substantial equivalence
283. Rain-free requirement and physiological properties of cotton plant growth regulators/ Walter E. Thomas ... [et al.]
Pesticide Biochemistry and Physiology, v. 88, Issue 3, July 2007, p. 247-251
Keywords: Plant height; Absorption; Translocation; Rain-free period; Leaf area
284. Response of cotton to various levels of nitrogen and water applied to normal and paired sown cotton under drip irrigation in relation to check-basin/ H.S. Thind, M.S. Aujla, G.S. Buttar
Agricultural Water Management, v. 95, Issue 1, January 2008, p. 25-34
Keywords: Agronomic characters; Efficiency; Cotton; Trickle irrigation; Nitrogen; Paired sowing; Water use
285. Runoff and soil loss from ultra-narrow row cotton plots with and without stiff-grass hedges/ R.F. Cullum ... [et al.]
Soil and Tillage Research, v. 93, Issue 1, March 2007, p. 56-63
Keywords: Runoff; Soil loss; Spacing; Cropping systems; Farm management; Erosion control
286. Soil properties in furrows of an irrigated Vertisol sown with continuous cotton (*Gossypium hirsutum* L.)/ N.R. Hulugalle ... [et al.]
Soil and Tillage Research, v. 97, Issue 2, December 2007, p. 162-171
Keywords: Cracking clay; Haplustert; Permanent beds; Trafficking; Tillage system; Vertisol

287. Soil properties and crop yields in a dryland Vertisol sown with cotton-based crop rotations/ N.R. Hulugalle ... [et al.]
Soil and Tillage Research, v. 93, Issue 2, April 2007, p. 356-369
Keywords: Farming system; Cropping system; Soil quality; Clay; Dryland; Wheat; Sorghum; Chickpea; Halpustert; Compaction
288. Soil properties in furrows of an irrigated Vertisol sown with continuous cotton (*Gossypium hirsutum* L.)/ N.R. Hulugalle ... [et al.]
Soil and Tillage Research, Volume 97, Issue 2, 2007, p. 162-171
Keywords: Cracking clay; Haplustert; Permanent beds; Trafficking; Tillage system; Vertisol
289. Stratification of nutrients in soil for different tillage regimes and cotton rotations/ Alan L. Wright ... [et al.]
Soil and Tillage Research, v. 96, Issues 1-2, October 2007, p. 19-27
Keywords: Cotton; Macronutrients; Nutrient stratification; Plant-available nutrients; Reduced tillage; Soil-profile distribution
290. Threshold distances and depths of nucleopolyhedrovirus in soil for transport to cotton plants by wind and rain/ James R. Fuxa, Arthur R. Richter, Maynard L. Milks
Journal of Invertebrate Pathology, v. 95, Issue 1, 2007, p. 60-70
Keywords: Baculoviridae; Heliothis virescens; Nucleopolyhedrovirus; Epizootiology; Transport; Soil-plant; Wind; Rain
291. Tillage systems for a cotton-peanut rotation with winter-annual grazing: Impacts on soil carbon, nitrogen and physical properties/ Guillermo Siri-Prieto, D. Wayne Reeves, Randy L. Raper
Soil and Tillage Research, v. 96, Issues 1-2, 2007, p. 260-268
Keywords: Annual grazing; Soil compaction; No-till; Soil quality; Soil organic carbon

292. Utilization of modified silk cotton hull waste as an adsorbent for the removal of textile dye (reactive blue MR) from aqueous solution/K.S. Thangamani ... [et al.]
Bioresource Technology, v. 98, Issue 6, April 2007, p. 1265-1269
Keywords: Silk cotton hull; Carbon; Dye; Adsorption; Isotherms
293. Water use efficiency of irrigated cotton in Uzbekistan under drip and furrow irrigation/ Alan L. Wright ... [et al.]
Agricultural Water Management, v. 90, Issues 1-2, 2007, p. 112-120
Keywords: Cotton; Irrigation; Trickle irrigation; Irrigation scheduling; Water use; Efficiency; Moisture content
294. Water vapor permeability of cotton fabrics coated with shape memory polyurethane/ S. Mondal, J.L. Hu
Carbohydrate Polymers, v. 67, Issue 3, 1 February 2007, p. 282-287
Keywords: Shape memory polyurethanes; Water vapor permeability; Processing; Melting; Temperature

TEEAL

295. Abundance and diversity of ground-dwelling arthropods of pest management importance in commercial Bt and non-Bt cotton fields/ Torres-J-B. Ruberson-J-R.
Annals of Applied Biology, 2007, 150 (1), p. 27-39
Keywords: Gossypium hirsutum; Pests of plants; Arthropods; Attacks; Pest control
296. Containment of regulated genetically modified cotton in the field/ Llewellyn-D. ... [et al.]
Agriculture, Ecosystems & Environment, 2007, 121 (4), p. 419-429
Keywords: Gossypium hirsutum; Genetic engineering; Biosafety; Genetically modified organisms
297. Cotton roots, earthworms, and infiltration characteristics in sod-peanut-cotton cropping systems/ Katsvairo-T-W. ... [et al.]
Agronomy Journal, 2007, 99 (2), p. 390-398
Keywords: Gossypium hirsutum; Peanuts; Cropping systems; Pests of plants; Plant diseases; Arthropods; Earthworms; Attacks; Pest control; Yields
298. Cover crop effect on soil carbon fractions under conservation tillage cotton/ Sainju-U-M. ... [et al.]
Soil & Tillage Research, 2007, 96 (1-2), pages 205-218
Keywords: Gossypium hirsutum; Cover crops; Cropping systems; Conservation tillage; Soil carbon; Yields
299. *Helicoverpa armigera* baseline susceptibility to *Bacillus thuringiensis* Cry toxins and resistance management for Bt cotton in India/ Gujar-G-T. ... [et al.]
Journal of Invertebrate Pathology, 2007, 95 (3), p. 214-219
Keywords: Gossypium hirsutum; Helicoverpa armigera; Bacillus thuringiensis; Plant resistance; Pest management

300. Kaolin particle film associated with increased cotton aphid infestations in cotton/ Showler-A-T. Armstrong-J-S.
Entomologia Experimentalis et Applicata, 2007, 124 (1), p. 55-60
Keywords: **Gossypium hirsutum; Pests of plants; Aphidaceae; Infestation; Kaolin; Pest control**
301. Long-term impacts of elevated carbon dioxide and transgenic Bt cotton on performance and feeding of three generations of cotton bollworm/
Chen-FaJun ... [et al.]
Entomologia Experimentalis et Applicata, 2007, 124 (1), p. 27-35
Keywords: **Gossypium hirsutum; Transgenic plants; Carbon dioxide; Pests of plants; Pest control**
302. Monitoring and adaptive resistance management in Australia for Bt-cotton: current status and future challenges/ Downes-S. Mahon-R. Olsen-K.
Journal of Invertebrate Pathology, 2007, 95 (3), p. 208-213
Keywords: **Gossypium hirsutum; Transgenic plants; Bacillus thuringiensis; Plant resistance**
303. Nitrogen and phosphorus fertilizer and residual response in cotton-sorghum and cotton-cotton sequences/ Booker-J-D. ... [et al.]
Agronomy Journal, 2007, 99 (3), p. 607-613
Keywords: **Gossypium hirsutum; Sorghum; Cropping systems; Nitrogen fertilizers; Phosphorus fertilizers; Fertilizing; Chemical residues; Plant responses**
304. Performance of peanut and cotton in a bahiagrass cropping system/ Katsvairo-T-W. ... [et al.]
Agronomy Journal, 2007, 99 (5), p. 1245-1251
Keywords: **Gossypium hirsutum; Arachis hypogaea; Bahiagrass; Cropping systems; Plant responses; Plant performance; Productivity**

305. Prediction of the naturalisation potential and weediness risk of transgenic cotton in Australia/ Rogers-D-J. ... [et al.]
Agriculture, Ecosystems & Environment, 2007, 119 (1-2), p. 177-189
Keywords: Gossypium hirsutum; Transgenis plants; Weeds; Plant responses; Plant competition
306. Runoff and soil loss from ultra-narrow row cotton plots with and without stiff-grass hedges/ Cullum-R-F. ... [et al.]
Soil & Tillage Research, 2007, 93 (1), p. 56-63
Keywords: Gossypium hirsutum; Cropping systems; Runoff; Erosion; Soil loss; Conservation tillage
307. Soil properties and crop yields in a dryland Vertisol sown with cotton-based crop rotations/ Hulugalle-N-R. ... [et al.]
Soil & Tillage Research, 2007, 93 (2), p. 356-369
Keywords: Gossypium hirsutum; Cropping systems; Soil chemicophysical properties; Dry farming; Vertisols; Plant responses; Yields
308. Southern root-knot nematode (*Meloidogyne incognita*) affects common cocklebur (*Xanthium strumarium*) interference with cotton/ Webster-T-M. Davis-R-F.
Weed Science, 2007, 55 (2), p. 143-146
Keywords: Gossypium hirsutum; Weeds; Xanthium strumarium; Nematodes; Meloidogyne incognita; Plant resistance
309. Stratification of nutrients in soil for different tillage regimes and cotton rotations/ Wright-A-L. ... [et al.]
Soil & Tillage Research, 2007, 96 (1-2), p. 19-27
Keywords: Gossypium hirsutum; Cropping systems; Soil fertility; Soil nutrients; Tillage; Plant performance
310. Suitability of cotton as an alternative crop in the Ogallala Aquifer Region/ Gowda-P-H. ... [et al.]
Agronomy Journal, 2007, 99 (6), p. 1397-1403
Keywords: Gossypium hirsutum; Farming systems; Land suitability; Productivity

311. Target and non-target effects on the invertebrate community of Vip cotton, a new insecticidal transgenic/ Whitehouse-M-E-A. Wilson-L-J. Constable-G-A.
Australian Journal of Agricultural Research, 2007, 58 (3), p. 273-285
Keywords: Gossypium hirsutum; Transgenic plants; Invertebrate; Pest control; Insecticides; Plant resistance
312. Tolerance of cotton expressing a 2,4-D detoxification gene to 2,4-D applied in the field/ Charles-G-W. ... [et al.]
Australian Journal of Agricultural Research, 2007, 58 (8), p. 780-787
Keywords: Gossypium hirsutum; Gene; Plant growth substances; Bioengineering; Technology

2008

Science Direct

313. Accumulation characteristics of biomass and nitrogen and critical nitrogen concentration dilution model of cotton reproductive organ/ Xue Xiaoping ... [et al.]
Acta Ecologica Sinica, v. 28, Issue 12, 2008, p. 6204-6211
Keywords: Cotton; Reproductive organ; Biomass; Nitrogen accumulation; Nitrogen; Chemicophysical properties; Dilution
314. Acibenzolar-S-methyl-induced alteration of defence gene expression and enzyme activity in cotton infected with *Fusarium oxysporum f. sp. Vasinfectum*/ Jennifer A. Whan ... [et al.]
Physiological and Molecular Plant Pathology, v. 73(6) 2008, p. 175-182
Keywords: Fusarium oxysporum; Plant growth promoter; Cotton; Induced mutation; PCR; Transcript accumulation; Chitinase; Phenylalanine ammonia lyase; Glucanase; Polyphenol oxidase; Peroxidase
315. Activity changes of enzymes associated with fiber development and relationship with fiber specific strength in two cotton cultivars/ Hong-Mei SHU ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 3, 2008, p. 437-446
Keywords: Gossypium hirsutum; Cultivar; Enzyme activity; Gene expression; Cellulose
316. Antimicrobial and chemical detoxifying functions of cotton fabrics containing different benzophenone derivatives/ Kyung Hwa Hong, Gang Sun
Carbohydrate Polymers, v. 71, Issue 4, 2008, p. 598-605
Keywords: Protective clothing material; Radical; Cotton; Anti-bacterial fabrics; Pesticide degradation; Benzophenone

317. Cloning and mapping of a new MYB transcription factor (GhTF1) in cotton/ Dong FANG ... [et al.]
Acta Agronomica Sinica, v. 34(2), 2008, p. 207-211
Keywords: Gossypium; Gene; Cloning; Expression; Gene tagging
318. Coronatine alleviates salinity stress in cotton by improving the antioxidative defense system and radical-scavenging activity/ Zhixia Xie ... [et al.]
Journal of Plant Physiology, v. 165, Issue 4, 2008, p. 375-384
Keywords: Antioxidant; Enzymes; Coronatine; Gossypium hirsutum; Salt stress
319. Costs and benefits of refuge requirements: The case of Bt cotton/ George B. Frisvold, Jeanne M. Reeves
Ecological Economics, v. 65, Issue 1, 2008, p. 87-97
Keywords: Cost and benefit analysis; Resistance management; Refuges; Technology adoption; Bt cotton
320. Cotton benzoquinone reductase: Up-regulation during early fiber development and heterologous expression and characterization in *Pichia pastoris*/ Rickie B. Turley, Earl Taliercio
Plant Physiology and Biochemistry, v. 46, Issues 8-9, 2008, p. 780-785
Keywords: Benzoquinone reductase; Fiber development; Gossypium hirsutum; Quinones; Pichia pastoris
321. Cotton logistics as a model for a biomass transportation system/ Poorna P. Ravula, Robert D. Grisso, John S. Cundiff
Biomass and Bioenergy, v. 32, Issue 4, 2008, p. 314-325
Keywords: Cotton; Modules; Discrete event; Simulation; Optimization; Knapsack; Biomass logistics; Greedy algorithm; Inventory control

322. Changes in C/N Ratio of subtending leaf of cotton boll and its relationship with cotton boll dry matter accumulation and distribution/ Hong-Biao HU...[et al.]
Acta Agronomica Sinica, v. 34, Issue 2, 2008, p. 254-260
Keywords: Cotton boll; C/N ratio; Dry matter; Accumulation; Distribution
323. Characterization and expression analysis of Terminal Flower1 homologs from cultivated allotetraploid cotton (*Gossypium hirsutum*) and its diploid progenitors/ Anagnostis Argiriou, Georgios Michailidis, Athanasios S. Tsiftaris
Journal of Plant Physiology, v. 165, Issue 15, 2008, p. 1636-1646
Keywords: Cotton; Gossypium; Flowering; Perenniality
324. Climatic determinants of cotton yields: Evidence from a plot in West Africa/ Elodie Blanc, Philippe Quirion, Eric Strob,
Agricultural and Forest Meteorology, v. 148(6-7), 2008, p. 1093-1100
Keywords: Cotton; Yields; Climate; West Africa
325. Conditions and indicators for screening cotton (*Gossypium hirsutum* L.) varieties tolerant to low Potassium/ Xiao-Li TIAN ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 8, August 2008, p. 1435-1443
Keywords: Cotton; Gossypium hirsutum; Plant responses; Potassium; Variety screening; Hydroponic culture; Indicator of tolerance
326. Defining the experimental unit for the design and analysis of site-specific experiments in commercial cotton fields/ Jeffrey L. Willers ... [et al.]
Agricultural Systems, v. 96, Issues 1-3, March 2008, p. 237-249
Keywords: General linear; Mixed models; Geographic information systems; Precision agriculture; Farming systems; Research; Remote sensing

327. Development and validation of SUCROS-Cotton: a potential crop growth simulation model for cotton/ L. Zhang ... [et al.]
NJAS-Wageningen Journal of Life Sciences, v. 56(1-2),2008,p.59-83
Keywords: Development; Development time; Growth; Intercropping; Lint; Physiological day; Yields
328. Effect of enzymatic treatment on cotton fiber dissolution in NaOH/urea solution at cold temperature/ Ying Wang, Yulin Zhao, Yulin Deng
Carbohydrate Polymers, v. 72, Issue 1, 2008, p. 178-184
Keywords: Cellulose; Crystallinity; Enzyme; Dissolution; Molecular weight
329. Effect of ethylene, 1-MCP, ABA and IAA on break strength, cellulase and polygalacturonase activities during cotton leaf abscission/ A. Mishra ... [et al.]
South African Journal of Botany, v. 74, Issue 2, 2008, p. 282-287
Keywords: Physical properties; Cell wall hydrolases; Ethylene; Gossypium hirsutum; Leaf abscission
330. Effect of microwave irradiation on the physical properties and morphological structures of cotton cellulose/ Aiqin Hou, Xiaojun Wang, Lianghua Wu
Carbohydrate Polymers, v. 74, Issue 4, 2008, p. 934-937
Keywords: Cotton fabric; Microwave; Crystallinity; Preferred orientation
331. Effect of pectate lyase bioscouring on physical, chemical and low-stress mechanical properties of cotton fabrics/ Styliani Kalantzi ... [et al.]
Bioresource Technology, v. 99, Issue 17, 2008, p. 8185-8192
Keywords: Bioprep 3000L; Bioscouring; Cotton; Physicochemical properties; Kawabata evaluation system

332. Effects of N fertilization on root development and activity of water-stressed cotton (*Gossypium hirsutum* L.) plants/ Rui-Xian Liu ... [et al.]
Agricultural Water Management, v. 95, Issue 11, 2008, p. 1261-1270
Keywords: Nitrogen; Water stress; Cotton; Root development; Antioxidant enzyme activity; Root vigor
333. Effects of sodium tungstate on the ultrastructure and growth of pea (*Pisum sativum*) and cotton (*Gossypium hirsutum*) seedlings/ Ioannis-Dimosthenis S. Adamakis, Eleftherios P. Eleftheriou, Thomas L. Rost
Environmental and Experimental Botany, v. 63, Issues 1-3, 2008, p. 416-425
Keywords: Cell plates; Cell vacuolation; Gossypium hirsutum; Nucleolar vacuoles; Pisum sativum; Tungstate
334. Effectiveness and chemical pest control of Bt-cotton in the Yangtze River Valley, China/ Naiyin Xu ... [et al.]
Crop Protection, v. 27, Issue 9, September 2008, p. 1269-1276
Keywords: China; Bacillus thuringiensis; Cotton; Transgenic plants; Varieties; Hybrids; Gene expression; Chemical control; Effectiveness
335. Efficient culture system for synchronization control of somatic embryogenesis in cotton (*Gossypium hirsutum* L.)/ Jing-Lin CAO ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 2, February 2008, p. 224-231
Keywords: Cotton; Somatic embryogenesis; Synchronization control; Culture system
336. Estimation of producer returns from Bt cotton with varying refuge sizes/ Swagata 'Ban' Banerjee, Steven W. Martin
Crop Protection, v. 27, Issue 6, June 2008, p. 1003-1008
Keywords: Bt cotton; Refuge; Returns; Risk; Simulated yield

337. Ethylene induced cotton leaf abscission is associated with higher expression of cellulase (GhCell1) and increased activities of ethylene biosynthesis enzymes in abscission zone/ Amita Mishra ... [et al.]
Plant Physiology and Biochemistry, v. 46, Issue 1, 2008, p. 54-63
Keywords: Methylcyclopropene; ACC oxidase; ACC synthase; Cellulase; Ethylene; Gossypium hirsutum; Leaf abscission
338. Evaluation of *Metarhizium anisopliae* strains as potential biocontrol agents of the tick *Rhipicephalus (Boophilus) microplus* and the cotton stainer *Dysdercus peruvianus*/ Irina Lubeck ... [et al.]
Fungal Ecology, v. 1, Issues 2-3, May-August 2008, p. 78-88
Keywords: Biological control; Metarhizium anisopliae; Rhipicephalus microplus; Dysdercus peruvianus; Chitinases
339. Field trials of four formulations of *Beauveria bassiana* and *Metarhizium anisoplae* for control of cotton spider mites (Acari: Tetranychidae) in the Tarim Basin of China/ Wei-Bing Shi, Li-Li Zhang, Ming-Guang Feng
Biological Control, v. 45, Issue 1, April 2008, p. 48-55
Keywords: Beauveria bassiana; Metarhizium anisoplae; Emulsifiable formulation; Tetranychus; Chlorpyrifos; Microbial control
340. Fluoride removal by Fe(III)-loaded ligand exchange cotton cellulose adsorbent from drinking water/ Yaping Zhao...[et al.]
Carbohydrate Polymers, v. 72, Issue 1, 3 April 2008, p. 144-150
Keywords: Fluoride removal; Ferrum; Cotton; Cellulose; Adsorbent; Drinking water; Ligand exchange mechanism
341. Genetic dissection of net effects between yield and its components in Sea Island Cotton (*Gossypium barbadense* L.)/ Zihong YE ... [et al.]
Agricultural Sciences in China, v. 7, Issue 9, 2008, p. 1052-1060
Keywords: Yield; Yield components; Gossypium barbadense; Conditional analysis

342. Genetic effect on yield and fiber quality traits of 16 chromosome substitution lines in upland cotton/ LUAN Ming-bao ... [et al.]
Agricultural Sciences in China, v. 7, Issue 11, 2008, p. 1290-1297
Keywords: Chromosome; Substitution lines; Upland; Cotton; Additive genetic effect; Dominance genetic effect; AD model
343. Genotypic variation for drought tolerance in cotton (*Gossypium hirsutum* L.): Leaf gas exchange and productivity, Flora - Morphology, Distribution/ Ihsan Ullah ... [et al.]
Functional Ecology of Plants, v. 203, Issue 2, 2008, p. 105-115
Keywords: Drought tolerance; Photosynthetic rate; Stomatal conductance; Productivity
344. Grafting of ethylcellulose microcapsules onto cotton fibers/ Roxana Badulescu ... [et al.]
Carbohydrate Polymers, v. 71, Issue 1, 5 January 2008, p. 85-91
Keywords: Ethylcellulose; Grafting; BTCA; SEM; FT-IR; Microcapsule
345. Ground-based sensing system for weed mapping in cotton/ Ruixiu Sui ... [et al.]
Computers and Electronics in Agriculture, v. 60(1), 2008, p. 31-38
Keywords: Precision agriculture; Weed mapping; Optical sensor; Remote sensing; Cotton
346. HBP-NH₂ grafted cotton fiber: Preparation and salt-free dyeing properties/ Feng Zhang...[et al.]
Carbohydrate Polymers, v. 74, Issue 2, 16 October 2008, p. 250-256
Keywords: Amino-terminated; Hyperbranched polymer; Salt-free dyeing; Oxidized cotton fiber; Graft
347. HydroLOGIC: An irrigation management system for Australian cotton/ Q.D. Richards, M.P. Bange, S.B. Johnston,
Agricultural Systems, v. 98, Issue 1, July 2008, p. 40-49
Keywords: Irrigation management; Cotton; Decision making; Risk; Crop management; Software development; Support

348. Identification and characterization of the novel gene GhDBP2 encoding a DRE-binding protein from cotton (*Gossypium hirsutum*)/ Bo Huang, Longguo Jin, Jin-Yuan Liu
Journal of Plant Physiology, v. 165, Issue 2, 2008, p. 214-223
Keywords: ABA; DRE-binding protein; Gossypium hirsutum; LEA D113; Transcriptional activator
349. Identification of micro-RNAs in cotton/ Muhammad Younas Khan Barozai ... [et al.]
Plant Physiology and Biochemistry, v. 46, Issues 8-9, 2008, p. 739-751
Keywords: Cotton; Micro RNAs; Post-transcriptional gene; Homology search
350. Impact of variable nitrogen fertilisation on arthropods in cotton in Georgia, USA/ Yigen Chen, John R. Ruberson
Agriculture, Ecosystems & Environment, v. 126(3-4), 2008, p. 281-288
Keywords: Resource availability; Nutrient; Bottom up effects; Top down effects; Tri-trophic interactions; Sustainable agriculture
351. *In vitro* regeneration of four commercial cotton cultivars (*Gossypium hirsutum* L.) grown in Xinjiang, China/ Tian-Zi CHEN ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 8, August 2008, p. 1374-1380
Keywords: Gossypium hirsutum.; Regeneration; Somatic embryogenesis
352. Increasing the environmental and social sustainability of cotton farming through farmer education in Andhra Pradesh, India/ Francesca Mancini ... [et al.]
Agricultural Systems, v. 96, Issues 1-3, March 2008, p. 16-25
Keywords: Integrated pest management; Farmer field schools; Cotton; Pesticides; Farmers' education; Physical labour; Gender; India

353. Individual and combined effects of salinity and waterlogging on Cry1Ac expression and insecticidal efficacy of Bt cotton/ Zhen Luo ... [et al.]
Crop Protection, v. 27, Issue 12, December 2008, p. 1485-1490
Keywords: Bt cotton; Gossypol; Insecticidal efficacy; Insecticidal protein; Salinity; Waterlogging
354. Interactions between Cry1Ac, Cry2Ab, and Cry1Fa *Bacillus thuringiensis* toxins in the cotton pests *Helicoverpa armigera* (Hubner) and *Earias insulana* (Boisduval)/ Maria A. Ibargutxi...[et al.]
Biological Control, v. 47, Issue 1, October 2008, p. 89-96
Keywords: Earias insulana; Helicoverpa armigera; Bacillus thuringiensis; Bt cotton; Cry toxins; Interaction; Synergy; Pest control
355. Intron-targeted intron-exon splice conjunction (IT-ISJ) marker and its application in construction of upland cotton linkage map/ Jing ZHENG ... [et al.].
Agricultural Sciences in China, v. 7, Issue 10, 2008, p. 1172-1180
Keywords: Linkage map; Cotton; Gossypium hirsutum; Biotechnology; Genetic engineering
356. Leaf carbon isotope discrimination, ash content and K relationships with seedcotton yield and lint quality in lines of *Gossypium hirsutum* L./ J.T. Tsialtas ... [et al.]
Field Crops Research, v. 107, Issue 1, 11 April 2008, p. 70-77
Keywords: Drought; Dry farming; Arid zones; Surrogates; Water use efficiency
357. Light filtering by epidermal flavonoids during the resistant response of cotton to *Xanthomonas protects* leaf tissue from light-dependent phytoalexin toxicity/ W. Ray Edwards ... [et al.]
Phytochemistry, v. 69, Issue 12, September 2008, p. 2320-2328
Keywords: Gossypium hirsutum; Malvaceae; Upland cotton; Xanthomonas campestris; Ecology; Chemistry; Anthocyanin; Flavonol glycoside; Phytoalexin; Ultra Violet; Damage

358. Light interception and utilization in relay intercrops of wheat and cotton/ L. Zhang ... [et al.]
Field Crops Research, v. 107, Issue 1, 11 April 2008, p. 29-42
Keywords: Leaf are index; Light; Efficiency; Photosynthetic active radiation; Intercropping; Competition
359. Microbial activity and soil C sequestration for reduced and conventional tillage cotton/ Alan L. Wright ... [et al.]
Applied Soil Ecology, v. 38, Issue 2, 2008, p. 168-173
Keywords: Carbon sequestration; Cotton; Microbial biomass; Mineralized C; Mineralized N; Nitrogen sequestration
360. Microbial community response to transition from conventional to conservation tillage in cotton fields/ Breana L. Simmons, David C. Coleman
Applied Soil Ecology, v. 40, Issue 3, 2008, p. 518-528
Keywords: Cotton; Cultivation; Microbial community; Microbial biomass; Conservation tillage
361. Microbial pretreatment of cotton stalks by solid state cultivation of *Phanerochaete chrysosporium*/ Jian Shi, Mari S. Chinn, Ratna R. Sharma-Shivappa
Bioresource Technology, v. 99, Issue 14, 2008, p. 6556-6564
Keywords: Cotton stalk; Pretreatment; Phanerochaete chrysosporium; Bioethanol; Lignin
362. Molecular cloning, expression profile and promoter analysis of a novel ethylene responsive transcription factor gene GhERF4 from cotton (*Gossypium hirsutum*)/ Long-Guo Jin, Jin-Yuan Liu
Plant Physiology and Biochemistry, v. 46, Issue 1, 2008, p. 46-53
Keywords: Abiotic stress; Cotton; EAR motif; Ethylene; Nuclear localization; Promoter analysis
363. Nitrous oxide emissions from fertilized, irrigated cotton (*Gossypium hirsutum* L.) in the Aral Sea Basin, Uzbekistan: Influence of nitrogen applications and irrigation practices/ Clemens Scheer ... [et al.]
Soil Biology and Biochemistry, v. 40, Issue 2, 2008, p. 290-301
Keywords: Denitrification; Irrigation; Nitrogen; Soil moisture; Arid climate; Greenhouse gases; Climate change; Emission pulse

364. Opposing roles for superoxide and nitric oxide in the NaCl stress-induced upregulation of antioxidant enzyme activity in cotton callus tissue/ Shantel A. Vital ... [et al.]
Environmental and Experimental Botany, v. 62, Issue 1, 2008, p. 60-68
Keywords: Antioxidants; Nitric oxide; Oxidative stress; Salt stress; Signal transduction
365. Overexpression of carboxylesterase gene associated with organophosphorous insecticide resistance in cotton aphids, *Aphis gossypii* (Glover)/ Chuan-Wang Cao ... [et al.]
Pesticide Biochemistry and Physiology, v. 90, Issue 3, 2008, p. 175-180
Keywords: Carboxylesterase; Overexpression; Omethoate; Insecticide resistance; Aphis gossypii
366. Oviposition deterrents from eggs of the cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae): Chemical identification and analysis by electroantennogram/ Mulan Liu, Hejuan Yu, Guoqing Li
Journal of Insect Physiology, v. 54, Issue 4, 2008, p. 656-662
Keywords: Helicoverpa armigera; Eggs; Oviposition deterrents; Fatty acids; EAG
367. Perceived improvements in nitrogen fertilizer efficiency from cotton precision farming/ J. Colby Torbett ... [et al.]
Computers and Electronics in Agriculture, v. 64(2) 2008, p. 140-148
Keywords: Site-specific; Information technologies; Precision farming; Nitrogen; Cotton; Efficiency; Order logit
368. Phenological trends in winter wheat and spring cotton in response to climate changes in northwest China/ H.L. Wang ... [et al.]
Agricultural and Forest Meteorology, v. 148, Issues 8-9, 2008, p. 1242-1251
Keywords: Phenological phases; Growth stage; Climate warming; Gossypium hirsutum; Triticum aestivum

369. Physical characteristics of compressed cotton stalks/ S.K. Jha, Amar Singh, Adarsh Kumar
Biosystems Engineering, v. 99, Issue 2, 2008, p. 205-210
Keywords: Growth stage; Gossypium hirsutum; Plant characters
370. Physiological mechanism of sucrose metabolism in cotton fiber and fiber strength regulated by Nitrogen/ Rong-Hui MA ... [et al.]
Acta Agronomica Sinica, v. 34, Issue 12, 2008, p. 2143-2151
Keywords: Cotton; Subtending leaf of cotton boll; Leaf nitrogen concentration; Cotton fiber; Sucrose metabolism; Fiber strength
371. Potentiation between pyrethroid and organophosphate insecticides in resistant field populations of cotton bollworm *Helicoverpa armigera* (Lepidoptera: Noctuidae) in Pakistan/ Mushtaq Ahmad
Pesticide Biochemistry and Physiology, v. 91, Issue 1, 2008, p. 24-31
Keywords: Helicoverpa armigera; Pakistan; Resistance; Potentiation; Antagonism; Pyrethroid; Organophosphate
372. Predation rate and development of *Coccinella septempunctata* L. influenced by *Neozygites fresenii*-infected cotton aphid prey/ David O. Simelane, Donald C. Steinkraus, Timothy J. Kring
Biological Control, v. 44, Issue 1, 2008, p. 128-135
Keywords: Coccinella septempunctata; Neozygites fresenii; Entomopathogenic fungus; Cotton aphid; Fungus; Entomophthoralean fungus; Intraguild predation; Interaction; Development
373. Preparation of durable insect repellent cotton fabric: Limonene as insecticide/ A. Hebeish...[et al.]
Carbohydrate Polymers, v. 74, Issue 2, 2008, p. 268-273
Keywords: Cotton; Textile; Repellent; Insecticides; Cyclodextrin; Monochlorotriazinyl cyclodextrin; Polymeric binder; Coating; Limonene

374. QTL mapping in A-genome diploid Asiatic cotton and their congruence analysis with AD-genome tetraploid cotton in genus *Gossypium*/ Xuexia Ma ... [et al.]
Journal of Genetics and Genomics, v. 35, Issue 12, 2008, p. 751-762
Keywords: Gossypium arboreum; Microsatellite; Fiber quality; Yield traits; QTL mapping
375. Repellency of controlled-release treated cotton fabrics based on cypermethrin and prallethrin/ F.A. Abdel-Mohdy ... [et al.]
Carbohydrate Polymers, v. 73, Issue 1, 4 July 2008, p. 92-97
Keywords: Insecticide; Insect repellent; Cypermethrin; Prallethrin; Cyclodextrin; MCT-[beta]-CD
376. Response of the photosynthetic apparatus of cotton (*Gossypium hirsutum*) to the onset of drought stress under field conditions studied by gas-exchange analysis and chlorophyll fluorescence imaging/ A. Massacci ... [et al.]
Plant Physiology and Biochemistry, v. 46, Issue 2, 2008, p. 189-195
Keywords: Chlorophyll fluorescence; Drought acclimation; Gossypium hirsutum; Photorespiration; Photosynthesis; Stomatal conductance
377. Sampling and management of *Bemisia tabaci* (Genn.) biotype B in Australian cotton/ Richard V. Sequeira, Steven E. Naranjo
Crop Protection, v. 27, Issue 9, 2008, p. 1262-1268
Keywords: Bemisia tabaci; Cotton; Management zones; Binomial sampling plan
378. Selection of a highly virulent isolate of *Lecanicillium attenuatum* against cotton aphid/ Jeong Jun Kim, Kyu Chin Kim
Journal of Asia-Pacific Entomology, v. 11, Issue 1, 2008, p. 1-4
Keywords: Aphis gossypii; Biological control; Cotton aphid; Entomopathogenic fungi; Lecanicillium attenuatum; Verticillium lecanii

379. Simulation of the effect of pruning and topping on cotton growth using COTTON2K model/ Yanmin Yang ... [et al.]
Field Crops Research, v. 106, Issue 2, 2008, p. 126-137
Keywords: Cotton; COTTON2K; Pruning and topping; Model; Calibration; Validation
380. Soil temperature dependent growth of cotton seedlings before emergence/ G. Nabi, C.E. Mullins
Pedosphere, v. 18, Issue 1, 2008, p. 54-59
Keywords: Linear growth; Root/shoot elongation; Soil temperature
381. Sonicator dyeing of modified cotton, wool and silk with *Mahonia napaulensis* DC. and identification of the colorant in Mahonia/ Padma S. Vankar ... [et al.]
Industrial Crops and Products, v. 27, Issue 3, 2008, p. 371-379
Keywords: Mahonia napaulensis; Cotton; Wool; Silk; Natural dyeing
382. Species composition and seasonal abundance of pestiferous plant bugs (Hemiptera: Miridae) on Bt Cotton in China/ Y.H. Lu ... [et al.]
Crop Protection, v. 27, Issues 3-5, 2008, p. 465-472
Keywords: Transgenic; Bt cotton; Mirid; Species composition; Seasonal abundance; China
383. Spectral vegetation indices for benchmarking water productivity of irrigated cotton and sugarbeet crops/ M.P. Gonzalez-Dugo, L. Mateos
Agricultural Water Management, v. 95, Issue 1, 2008, p. 48-58
Keywords: Crop coefficients; Vegetation indices; Remote sensing; Water productivity; Sugarbeet; Cotton
384. Spectrum characteristics of cotton canopy infected with Verticillium wilt and applications/ Bing CHEN ... [et al.]
Agricultural Sciences in China, v. 7, Issue 5, 2008, p. 561-569
Keywords: Cotton; Verticillium wilt; Canopy spectrum; SL; Inversion models

385. Spontaneous combustion identification of stored wet cotton using a C80 calorimeter/ Qingsong Wang, Jinhua Sun, Song Guo
Industrial Crops and Products, v. 28, Issue 3, 2008, p. 268-272
Keywords: Spontaneous combustion; Cotton; Thermal analysis;
386. Stage-specific gut proteinases of the cotton stainer bug *Dysdercus peruvianus*: Role in the release of entomotoxic peptides from *Canavalia ensiformis* urease/ Angela R. Piovesan ... [et al.]
Insect Biochemistry and Molecular Biology, v. 38, Issue 11, 2008, p. 1023-1032
Keywords: Dysdercus peruvianus; Urease; Proteolytic enzyme; Insecticidal peptide; Enzyme inhibitor
387. Stereoselective coupling of hemigossypol to form (+)-gossypol in moco cotton is mediated by a dirigent protein/ Jinggao Liu ... [et al.]
Phytochemistry, v. 69, Issue 18, Tannin/Polyphenol Special Issue, December 2008, p. 3038-3042
Keywords: Dirigent protein; Moco cotton; Gossypium hirsutum; Malvaceae; Gossypol; Gossypol biosynthesis; Hemigossypol; Oxidative coupling; Peroxidase; Stereoselectivity
388. Study of gene effects for cotton yield and *Verticillium* wilt tolerance in cotton plant (*Gossypium hirsutum* L.)/ A. Aguado ... [et al.]
Field Crops Research, v. 107, Issue 1, 2008, p. 78-86
Keywords: Breeding; Hayman analysis
389. Study on the nutrition characteristics of different K use efficiency cotton genotypes to K deficiency stress/ Cun-cang JIANG ... [et al.]
Agricultural Sciences in China, v. 7, Issue 6, June 2008, p. 740-74
Keywords: Gossypium hirsutum; Potassium; Efficiency; Genotype; Uptake capability; Distribution ability

390. Susceptibility of Pakistani populations of cotton aphid *Aphis gossypii* (Homoptera: Aphididae) to endosulfan, organophosphorus and carbamate insecticides/ Mushtaq Ahmad, M. Iqbal Arif
Crop Protection, v. 27, Issues 3-5, 2008, p. 523-531
Keywords: Aphis gossypii; Insecticide resistance; Endosulfan; Organophosphates; Carbamates; Pakistan
391. Swelling and dissolution of cellulose. Part IV: Free floating cotton and wood fibres in ionic liquids/ Celine Cuissinat, Patrick Navard, Thomas Heinze
Carbohydrate Polymers, v. 72, Issue 4, 2008, p. 590-596
Keywords: Cellulose; Cotton; Ionic liquids; Dissolution; Swelling
392. Temperature-mediated developmental delay may limit yield of cotton in relay intercrops with wheat/ L. Zhang ... [et al.]
Field Crops Research, v. 106, Issue 3, 2008, p. 258-268
Keywords: Air temperature; Soil temperature; Soil cover; Thermal time; Physiological time; Phenology
393. Toxicity to the cotton bollworm, *Helicoverpa armigera*, of some Cry1Ac toxins expressed in cotton in India/ G.T. Gujar ... [et al.]
Crop Protection, v. 27, Issues 3-5, 2008, p. 537-544
Keywords: Toxicity; Bacillus thuringiensis; Cry1Ac; Cotton bollworm; Helicoverpa armigera
394. Yield, leaf senescence, and Cry1Ac expression in response to removal of early fruiting branches in transgenic Bt cotton/ Hezhong DONG ... [et al.]
Agricultural Sciences in China, v. 7, Issue 6, 2008, p. 692-702
Keywords: Branch removal; Bt cotton; Cry1Ac protein; Leaf senescence; Photosynthetic rate; Sink/Source ratio

395. Yield and growth characteristics for cotton under various irrigation regimes on sandy soil/ W.R. DeTar
Agricultural Water Management, v. 95, Issue 1, 2008, p. 69-76
Keywords: Cotton; Water production functions; Drip irrigation; Application rates; Growth characteristics; Length of season; Evapotranspiration

2009

Science Direct

396. Acoustical evaluation of carbonized and activated cotton nonwovens/ N. Jiang, J.Y. Chen, D.V. Parikh
Bioresource Technology, v. 100, Issue 24, 2009, p. 6533-6536
Keywords: Activated carbon fiber; Nonwoven; Cotton; Noise absorption; Transmission loss
397. Activated carbons from flax shive and cotton gin waste as environmental adsorbents for the chlorinated hydrocarbon trichloroethylene/ K. Thomas Klasson ... [et al.]
Bioresource Technology, v. 100, Issue 21, 2009, p. 5045-5050,
Keywords: Activated carbon; Agricultural by-products; Cotton gin waste; Flax shive; Trichloroethylene
398. Agronomic and economic response to furrow diking tillage in irrigated and non-irrigated cotton (*Gossypium hirsutum* L.)/ R.C. Nuti ... [et al.]
Agricultural Water Management, v. 96, Issue 7, 2009, p. 1078-1084
Keywords: Irrigation scheduling; Water capture; Water consumption; Best management practices; Conservation tillage
399. Analysis of antibody response by temperature-sensitive measles vaccine strain in the cotton rat model, *Comparative Immunology/* Takeshi Haga ... [et al.]
Microbiology and Infectious Diseases, v. 32, Issue 5, 2009, p. 395-406
Keywords: Cotton rat; Measles vaccine; Temperature sensitive; Rat Sigmodon; Vaccin; Laboratory animal; Virus; Temperature
400. Analysis of mealybug incidence on the cotton crop using ADSS-OLAP (Online Analytical Processing) tool/ Ahsan Abdullah
Computers and Electronics in Agriculture, v. 69(1), 2009, p. 59-72
Keywords: Decision Support System; Agriculture; Data Warehouse; Mealybug; Pest; Cotton; Pesticide; Data quality;

401. Analysis of the cotton sucrose synthase 3 (Sus3) promoter and first intron in transgenic Arabidopsis/ Meng-Bin Ruan ... [et al.]
Plant Science, v. 176, Issue 3, 2009, p. 342-351
Keywords: Cotton Sucrose synthase; Gene expression;
402. Analysis of xyloglucan endotransglycosylase/hydrolase (XTH) genes from allotetraploid (*Gossypium hirsutum*) cotton and its diploid progenitors expressed during fiber elongation/ Georgios Michailidis ... [et al.]
Journal of Plant Physiology, v. 166, Issue 4, 2009, p. 403-416
Keywords: Cell wall; Cotton fiber; Gossypium; Xyloglucan endotransglycosylase/hydrolase
403. Antimicrobial activity of AgCl embedded in a silica matrix on cotton fabric/ Brigita Tomsic ... [et al.]
Carbohydrate Polymers, v. 75, Issue 4, 2009, p. 618-626
Keywords: Cellulose; Modification; Antimicrobial; Finishing; Sol-gel coating; Washing fastness
404. Antioxidative and ACE inhibitory activities in enzymatic hydrolysates of the cotton leafworm, *Spodoptera littoralis*/ Lieselot Vercruyse ... [et al.]
Food Chemistry, v. 114, Issue 1, 2009, p. 38-43
Keywords: Antioxidant; Bioactive peptides; ACE inhibition; Insect
405. Assessing effects of transgenic Cry1Ac cotton on the earthworm *Eisenia fetida*/ Biao Liu ... [et al.]
Soil Biology and Biochemistry, v. 41, Issue 9, 2009, p. 1841-1846
Keywords: Transgenic; Cry1Ac gene; Cotton; Leaf; Eisenia fetida; Growth; Reproduction
406. Boll size affects the insecticidal protein content in *Bacillus thuringiensis* (Bt) cotton/ Yonghui Wang ... [et al.]
Field Crops Research, v. 110, Issue 2, 2009, p. 106-110
Keywords: Bt cotton; Boll size; CryIA; Insecticidal protein

407. Bt cotton in China: Are secondary insect infestations offsetting the benefits in farmer fields/ Zi-jun WANG ... [et al.]
Agricultural Sciences in China, v. 8, Issue 1, 2009, p. 83-90
Keywords: Bt cotton; Secondary insect; Mirid; China
408. Characterization, and mapping of genomic microsatellite markers in Sea-Island Cotton (*Gossypium barbadense*)/ Pei-Pei ZHANG ... [et al.]
Acta Agronomica Sinica, v. 35, Issue 6, June 2009, p. 1013-1020
Keywords: Sea-island cotton; Microsatellites; Genetic variation; Genetic mapping
409. Characterizing leaf gas exchange responses of cotton to full and limited irrigation conditions/ Jonghan Ko, Giovanni Piccinni
Field Crops Research, v. 112, Issue 1, 2009, p. 77-89
Keywords: Photosynthesis; Water use efficiency; Yield
410. Cloning and expression profile of gibberellin insensitive dwarf GID1 homologous genes from cotton/ Jing DONG ... [et al.]
Acta Agronomica Sinica, v. 35, Issue 10, October 2009, p. 1822-1830
Keywords: Cotton; Fiber development; Expression specificity
411. Combining ability analysis to identify suitable parents for heterosis in seed cotton yield, its components and lint percentage in upland cotton/ Naqib Ullah Khan ... [et al.]
Industrial Crops and Products, v. 29, Issue 1, 2009, p. 108-115
Keywords: F1 hybrids; F2 hybrids; Gene action; Hybrid vigour; Inbreeding depression; Gossypium hirsutum
412. Competition for ¹⁵N labeled nitrogen in a loblolly pine-cotton alley cropping system in the southeastern United States/ Diomides S. Zamora, Shibu Jose, Kara Napolitano
Agriculture, Ecosystems & Environment, v. 131, Issues 1-2, Temperate agroforestry: When trees and crops get together, May 2009, p. 40-50
Keywords: Fertilizer efficiency; Tree-crop interaction; Safety-net hypothesis; Temperate alley cropping

413. Contribution of conservation biological control to integrated control of *Bemisia tabaci* in cotton/ Steven E. Naranjo, Peter C. Ellsworth
Biological Control, v. 51, Issue 3, December 2009, p. 458-470
Keywords: Bemisia tabaci; Life tables; Key factor; Irreplaceable mortality; Predation; Parasitism; Contemporaneous mortality; Selective insecticides; Bioresidual; Integrated control
414. *Conyza canadensis* (L.) Cronquist response to pre-plant application of residual herbicides in cotton (*Gossypium hirsutum* L.)/ Jason K. Norsworthy, Marilyn McClelland, Griff M. Griffith
Crop Protection, Volume 28, Issue 1, January 2009, p. 62-67
Keywords: Conyza canadensis; Dicamba; Glufosinate; Herbicide resistance; Horseweed; Residual weed control; Weed emergence
415. Cotton leaf nutrient concentrations in response to waterlogging under field conditions/ Stephen P. Milroy, Michael P. Bange, Pongmanee Thongbai
Field Crops Research, v. 113, Issue 3, 2009, p. 246-255
Keywords: Cotton; Gossypium hirsutum; Mineral nutrition; Nitrogen; Phosphorus; Potassium; Sodium; Waterlogging
416. Degradation of cotton cellulose treated with hydrochloric acid either in water or in ethanol/ Jheng-Hua Lin, Yung-Ho Chang, You-Hong Hsu
Food Hydrocolloids, v. 23, Issue 6, 9th International Hydrocolloids Conference, August 2009, p. 1548-1553
Keywords: Cellulose; Acid treated; Medium effect; Molecular weight distribution; Degradation rate
417. Density and cloud point of diesel oil mixtures with the straight vegetable oils (SVO): Palm, cabbage palm, cotton, groundnut, copra and sunflower/ Abolle Abolle, Kouakou Loukou, Planche Henri
Biomass and Bioenergy, v. 33, Issue 12, December 2009, p. 1653-1659
Keywords: Biofuel, Density; Cloud point; Vegetable oils; Elaeis guineensis; Sabal palmetto; Gossypium hirsutum; Arachis hypogaea; Cocos nucifera; Helianthus annuus; Fuel blend; Diesel oil

418. Determination of growth-stage-specific crop coefficients (Kc) of cotton and wheat/ Jonghan Ko...[et al.]
Agricultural Water Management, v. 96, Issue 12, December 2009, p. 1691-1697
Keywords: Crop coefficient; Measurement;
419. Different drip irrigation regimes affect cotton yield, water use efficiency and fiber quality in western Turkey/ N. Dagdelen ..[et al.]
Agricultural Water Management, v. 96, Issue 1, January 2009, p. 111-120
Keywords: Cotton; Drip irrigation; Water-yield relation; Fiber quality; Water stress
420. Differential gene expression between hybrids and their parents during the four crucial stages of cotton growth and development/ Yun-lei ZHAO ... [et al.]
Agricultural Sciences in China, v. 8, Issue 2, February 2009, p. 144-153
Keywords: Cotton; Heterosis; Molecular mechanism; Gene expression; Differential display
421. Differential gene expression of cotton cultivar CCRI24 during somatic embryogenesis/ Xiuming Wu ... [et al.]
Journal of Plant Physiology, v. 166, Issue 12, 15 August 2009, p. 1275-1283
Keywords: Auxin; Cotton; Ethylene; Somatic embryogenesis; Suppression subtractive hybridization
422. Differentially expressed genes in cotton plant genotypes infected with *Meloidogyne incognita*/ Aulus Estevao Anjos de Deus Barbosa ... [et al.]
Plant Science, v. 177, Issue 5, November 2009, p. 492-497
Keywords: Root-knot nematode; Meloidogyne incognita; Resistance genes; Gossypium hirsutum; Cotton

423. Direct and residual effects of nitrogen fertilization, foliar application of potassium and plant growth retardant on Egyptian cotton growth, seed yield, seed viability and seedling vigor/ Zakaria M. Sawan, Ashraf H. Fahmy, Serag E. Yousef
Acta Ecologica Sinica, v. 29, Issue 2, July 2009, p. 116-123
Keywords: Cotton yield; Nitrogen; Mepiquat chloride; Potassium; Seed viability; Seedling vigor
424. Does labelling frequency affect N rhizodeposition assessment using the cotton-wick method/ S. Mahieu ... [et al.]
Soil Biology and Biochemistry, v. 41, Issue 10, 2009, p. 2236-2243
Keywords: N rhizodeposition; 15N; Cotton-wick method; Legumes; Pisum sativum; Isotopic methods
425. Early plastic mulching increases stand establishment and lint yield of cotton in saline fields/ Hezhong Dong ... [et al.]
Field Crops Research, v. 111, Issue 3, 2009, p. 269-275
Keywords: Cotton; Plastic mulching; Saline soil; Stand establishment; Lint yield
426. Eco-friendly - novel approach for attaining wrinkle - free/soft-hand cotton fabric/ Mohamed Hashem ... [et al.]
Carbohydrate Polymers, v. 78, Issue 4, 2009, p. 690-703
Keywords: Cotton fabric; Eco-friendly finishing; Wrinkle-free; Soft-hand; Silicon microemulsion
427. Economic analysis of no tillage and minimum tillage cotton-corn rotations in the Mississippi Delta/ Steven W. Martin, James Hanks
Soil and Tillage Research, v. 102, Issue 1, January 2009, p. 135-137
Keywords: Zero tillage; Minimum till; Rotations; Cotton; Corn; Net returns
428. Effect of microbial pretreatment on enzymatic hydrolysis and fermentation of cotton stalks for ethanol production/ Jian Shi ... [et al.]
Biomass and Bioenergy, v. 33, Issue 1, January 2009, p. 88-96
Gossypium hirsutum; Pretreatment; Phanerochaete chrysosporium; Lignin; Fuel ethanol; Cellobiose; Submerged cultivation; Solid state cultivation

429. Effect of post- and pre-crosslinking of cotton fabrics on the efficiency of biofinishing with cellulase enzyme/ Ali Hebeish ... [et al.]
Carbohydrate Polymers, v. 78, Issue 4, 17 November 2009, p. 953-960
Keywords: Bio-polish; Cellulase enzyme; Cotton blend; Finishing; Easy care; Textile
430. Effect of pre-sowing and pre-emergence glyphosate applications on weeds in stale seedbed cotton/ M.N. Dogan ... [et al.]
Crop Protection, v. 28, Issue 6, June 2009, P.503-507
Keywords: Cotton; Stale seedbed; Glyphosate; Weed control
431. Effects of *Bacillus thuringiensis* toxin Cry1Ac and cytoplasmic polyhedrosis virus of *Helicoverpa armigera* (Hubner) (HaCPV) on cotton bollworm (Lepidoptera: Noctuidae)/ Rasoul Marzban ... [et al.]
Journal of Invertebrate Pathology, v. 101, Issue 1, 2009, p. 71-76
Keywords: Bacillus thuringiensis; Cry1Ac; Helicoverpa armigera; Transgenic cotton; HaCPV; Combination; Synergism; Additive
432. Effects of larval host plants on over-wintering physiological dynamics and survival of the cotton bollworm, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae)/ Zhudong Liu ... [et al.]
Journal of Insect Physiology, v. 55, Issue 1, January 2009, P.1-9
Keywords: Helicoverpa armigera; Host plants; Reserve storage; Molecular biology
433. Effects of ozone fumigation on cotton (*Gossypium hirsutum* L.) morphology, anatomy, physiology, yield and qualitative characteristics of fibers/ Demetrius Zouzoulas ... [et al.]
Environmental and Experimental Botany, v. 67(1), 2009, p. 293-303
Keywords: Cotton; Ozone; Leaf epidermal characters; Growth characters; Flower characters; Pollen germination; Photosynthesis; Yield; Lint quality; Leaf anatomy

434. Effects of potassium deficiency on root growth of cotton seedlings and its physiological mechanisms/ Zhi-Yong ZHANG ... [et al.]
Acta Agronomica Sinica, v. 35, Issue 4, April 2009, P.718-723
Keywords: Gossypium hirsutum; Potassium; Root growth; Indole acetic acid; Ethylene
435. Effects of salinity and fertigation practice on cotton yield and 15N recovery/ Zhenan Hou ... [et al.]
Agricultural Water Management, v. 96, Issue 10, 2009, p. 1483-1489
Keywords: Drip irrigation; Soil salinity; Fertigation strategy; 15N; Cotton
436. Effects of soil water content on cotton root growth and distribution under mulched drip irrigation/ Xiao-tang HU ... [et al.]
Agricultural Sciences in China, v. 8, Issue 6, 2009, p. 709-716
Keywords: Mulched drip irrigation; Cotton; Gossypium hirsutum; Soil water content; Root
437. Efficacy of transgenic cotton plant containing the Cry1Ac and Cry2Ab genes of *Bacillus thuringiensis* against *Helicoverpa armigera* and *Syllepte derogata* in cotton cultivation in Burkina Faso/ Omer Hema ... [et al.]
Crop Protection, v. 28, Issue 3, March 2009, p. 205-214
Keywords: Transgenic cotton plant; Bacillus thuringiensis; Helicoverpa armigera; Syllepte derogata; Burkina Faso
438. Enhancing antimicrobial properties of dyed and finished cotton fabrics/ Mohamed Hashem ... [et al.]
Carbohydrate Polymers, v. 78, Issue 3, 15 October 2009, p. 502-510
Keywords: Antimicrobial; Biocides; Cotton fabric; Finishing
439. EST-SSR sequences revealed the relationship of D-genome in diploid and tetraploid species in Gossypier/ Hua-Yu Zhu ... [et al.]
Plant Science, v. 176, Issue 3, March 2009, p. 397-405
Keywords: Gossypium; Cotton; EST-SSR; D-genome; Diploid; Tetraploid; Genetic relationship

440. Evaluation of cotton cultivars for resistance to pathotypes of *Verticillium dahliae*/ M. Erhan Gore ... [et al.]
Crop Protection, v. 28, Issue 3, March 2009, p. 215-219
Keywords: Cotton; Resistance; Verticillium ; Pathotypes
441. Finishing of cotton fabrics with poly (N-vinyl-2-pyrrolidone) to improve their performance and antibacterial properties/ H.M. Fahmy, M.H. Abo-Shosha, N.A. Ibrahim
Carbohydrate Polymers, v. 77, Issue 4, 2009, p. 845-850
Keywords: Poly (N-vinyl-2-pyrrolidone); Crosslinking; Cotton fabrics; Easy-care finishing; Iodine solution; Antibacterial activity
442. Growth and development of cotton (*Gossypium hirsutum* L.) in response to CO₂ enrichment under two different temperature regimes/ S.T. Yoon ... [et al.]
Environmental and Experimental Botany, v. 67, Issue 1, 2009, p. 178-187
Keywords: Global climate change; CO₂; Temperature interaction; Gossypium hirsutum; Biomass;
443. Identification and expression of a new delta-12 fatty acid desaturase (FAD2-4) gene in upland cotton and its functional expression in yeast and Arabidopsis thaliana plants/ Daiyuan Zhang ... [et al.]
Plant Physiology and Biochemistry, v. 47, Issue 6, Plant Lipids, June 2009, p. 462-471
Keywords: Delta-12; Fatty acid desaturase 2; Gossypium hirsutum; Linoleic acid; Oleic acid; Polyunsaturated; Fatty acid metabolism
444. Impact of *Helicoverpa armigera* nucleopolyhedroviruses expressing a cathepsin L-like protease on target and nontarget insect species on cotton/ Xiulian Sun ... [et al.]
Biological Control, v. 49, Issue 1, April 2009, p. 77-83
Keywords: Helicoverpa armigera; Nucleopolyhedrovirus; Genetically modified viruses; Cathepsin; Cysteine protease; Insecticidal activity; Control efficacy

445. Influence of silver content on antimicrobial activity and color of cotton fabrics functionalized with Ag nanoparticles/ Vesna Ilic ... [et al.]
Carbohydrate Polymers, v. 78, Issue 3, 2009, p. 564-569
Keywords: Silver nanoparticles; Cotton; Antibacterial efficiency
446. Initial activity and persistence of insecticides for the control of bollworms (Lepidoptera: Noctuidae) in cotton crops/T. Brevault ... [et al.]
Crop Protection, v. 28, Issue 5, May 2009, P.401-406
Keywords: Insecticide; Residual activity; Pyrethroid resistance; Helicoverpa armigera; Earias; Diparopsis watersii; Cotton
447. Integrated control of cotton root rot disease by mixing fungal biocontrol agents and resistance inducers/ Kamal A.M. Abo-Elyousr, M. Hashem, E.H. Ali
Crop Protection, v. 28, Issue 4, 2009, p. 295-301
Keywords: Acibenzolar-S-methyl; Salicylic acid; Cotton, Root rot; Fusarium oxysporum; Pythium debaryanum; Paecilomyces; Trichoderma
448. Introgression of resistance to reniform nematode (*Rotylenchulus reniformis*) into upland cotton (*Gossypium hirsutum*) from *Gossypium arboreum* and a *G. hirsutum*/*Gossypium aridum* bridging line/ Erik J. Sacks, A. Forest Robinson
Field Crops Research, v. 112, Issue 1, 2009, p. 1-6
Keywords: Cotton; Reniform nematode; Resistance; Inheritance; Introgression; Wide cross
449. Irrigation scheduling strategies for cotton to cope with water scarcity in the Fergana Valley, Central Asia/ L.S. Pereira ... [et al.]
Agricultural Water Management, v. 96, Issue 5, May 2009, p. 723-735
Keywords: Irrigation requirements; Deficit irrigation; Water savings; Water productivity; Economic;

450. Landscape effects of transgenic cotton on non-target ants and beetles/ Yves Carriere ... [et al.]
Basic and Applied Ecology, v. 10, Issue 7, October 2009, p. 597-606
Keywords: Bacillus thuringiensis; Landscape effects; Herbicide tolerance; Nontarget arthropods; Regional effects; Remote sensing; Risk assessment; Transgenic
451. Long-term effects of poultry litter and conservation tillage on crop yields and soil phosphorus in cotton-cotton-corn rotation/ S.S. Reddy ... [et al.]
Field Crops Research, , v. 114, Issue 2, November 2009, p. 311-319
Keywords: Poultry litter; Conventional tillage; Cover crop; Mulch tillage; No-tillage; Phosphorus
452. Macronutrient concentration in plant parts of cotton fertilized with broiler litter in a marginal upland soil/ H. Tewolde ... [et al.]
Soil and Tillage Research, v. 105, Issue 1, September 2009, p. 1-11
Keywords: Poultry litter; Manure; Incorporation; Tillage; Tissue nutrients
453. Methylation-sensitive amplification polymorphism of epigenetic changes in cotton under salt stress/ Xue-Lin LI ... [et al.]
Acta Agronomica Sinica, v. 35, Issue 4, April 2009, p. 588-596
Keywords: Cotton; Salt stress; DNA methylation;
454. Microbial pretreatment of cotton stalks by submerged cultivation of *Phanerochaete chrysosporium*/Jian Shi, Ratna R. Sharma-Shivappa, Mari S. Chinn
Bioresource Technology, v. 100, Issue 19, October 2009, p. 4388-4395
Keywords: Fungal pretreatment; Biofuel; Phanerochaete chrysosporium; Cotton residue; Delignification
455. Microwave curing for producing cotton fabrics with easy care and antibacterial properties/ Moustafa M.G. Fouda ... [et al.]
Carbohydrate Polymers, v. 77, Issue 3, 11 July 2009, p. 651-655
Keywords: Chitosan; Microwave; Antibacterial; Finishing

456. Modeling boll maturation period, seed growth, protein, and oil content of cotton (*Gossypium hirsutum* L.) in China/ Wenfeng Li ... [et al.]
Field Crops Research, v. 112, Issues 2-3, 26 June 2009, p. 131-140
Keywords: Cottonseed; Crop model; Maturation period; Biomass; Accumulation; Protein content; Oil content
457. Module-specific post-processing calibration method to improve cotton yield mapping/ Yufeng Ge ... [et al.]
Computers and Electronics in Agriculture, v. 68, Issue 2, 2009, p. 161-167
Keywords: Cotton; Precision agriculture; Wireless communication; Yield calibration; Yield monitor
458. Molecular identification and expression analysis of GhCYP51G1 gene, a homologue of obtusifoliol-14 alpha-demethylase gene, from upland cotton/ Kun-Ling TAN ... [et al.]
Acta Agronomica Sinica, v. 35, Issue 7, 2009, p. 1194-1201
Keywords: Cotton fiber; Phytosterols; Obtusifoliol; alpha-demethylase; GhCYP51G1; Brassinosteroids
459. N-Halamine-coated cotton for antimicrobial and detoxification applications/ Xuehong Ren ... [et al.]
Carbohydrate Polymers, v. 78, Issue 2, 5 September 2009, p. 220-226
Keywords: Biocidal; Cellulose; Bacteria; Antimicrobial; N-Halamine
460. New development for combined bioscouring and bleaching of cotton-based fabrics/ Ali Hebeish ... [et al.]
Carbohydrate Polymers, v. 78, Issue 4, 17 November 2009, p. 961-972
Keywords: Bioscouring, Bleaching, Cotton Fabric; Pectinase enzyme, Peracetic acid; Polyester

461. Nitrogen and water affect direct and indirect plant systemic induced defense in cotton/ D.M. Olson ... [et al.]
Biological Control, v. 49, Issue 3, June 2009, p. 239-244
Keywords: Gossypium hirsutum; Microplitis croceipes; Helicoverpa; Spodoptera exigua; Nitrogen; Water stress; Volatiles; Anti-feedants
462. No effects of elevated CO₂ on the population relationship between cotton bollworm, *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae), and its parasitoid, *Microplitis mediator* Haliday (Hymenoptera: Braconidae)/ Jin Yin ... [et al.]
Agriculture, Ecosystems & Environment, v. 132, Issues 3-4, 2009, p. 267-275
Keywords: CO₂; Helicoverpa armigera; Microplitis mediator; Parasitism rate; Population consumption; Spring wheat
463. One-step process for bio-scouring and peracetic acid bleaching of cotton fabric/ Amira El Shafie, Moustafa M.G. Fouda, Mohamed Hashem
Carbohydrate Polymers, v. 78, Issue 2, 5 September 2009, p. 302-308
Keywords: Cotton; Peracetic acid; Bleaching; Bio-scouring; Pretreatment; Tetraacetylenediamine
464. Parasitism of cotton whitefly, *Bemisia tabaci* on cucumber by *Eretmocerus mundus*: Bionomics in relation to temperature/ Nooshin Zandi-Sohani, Parviz Shishehbor, Farhan Kocheili
Crop Protection, v. 28, Issue 11, November 2009, p. 963-967
Keywords: Eretmocerus mundus; Bemisia tabaci; Biology; Life table parameters; Cucumber
465. Photosynthesis of cotton near-isogenic lines introgressed with QTLs for productivity and drought related traits/ Avishag Levi ... [et al.]
Plant Science, v. 177, Issue 2, August 2009, p. 88-96
Keywords: Gas exchange; Gossypium; Leaf water potential

466. Physiological and molecular mechanisms of glyphosate tolerance in an *in vitro* selected cotton mutant/ X.H. Tong ... [et al.]
Pesticide Biochemistry and Physiology, v. 94(2-3), 2009, p. 100-106
Keywords: Gossypium hirsutum; Cotton; Shikimate; Glyphosate; PCR
467. Potential of mungbean, *Vigna radiatus* as a trap crop for managing *Apolygus lucorum* (Hemiptera: Miridae) on Bt cotton/ Y.H. Lu ... [et al.]
Crop Protection, v. 28, Issue 1, January 2009, p. 77-81
Keywords: Mungbean; Apolygus lucorum; Cotton; Host preference; Trap crop
468. Preparation of cationic cotton with two-bath pad-bake process and its application in salt-free dyeing/ Lili Wang ... [et al.]
Carbohydrate Polymers, v. 78, Issue 3, 2009, p. 602-608
Keywords: Cationic cotton; Salt-free dyeing; Reactive dyes
469. Preparation of polyethylene glycol/polyacrylamide adduct and utilization in cotton finishing/ Z. El-Sayed Mohamed, M.H. Abo-Shosha, N.A. Ibrahim
Carbohydrate Polymers, v. 75, Issue 3, 11 February 2009, p. 479-483
Keywords: Acrylamide; Polyethylene glycol; Adduct; Fabric; Finishing
470. Properties and potential applications of natural cellulose fibers from the bark of cotton stalks/ Narendra Reddy, Yiqi Yang
Bioresource Technology, v. 100, Issue 14, 2009, p. 3563-3569
Keywords: Biofibers; Cotton stalks; Cellulose; Biomass; Composites
471. Protonation behavior of cotton fabric with irreversibly adsorbed chitosan: A potentiometric titration study/ Dusko Cakara ... [et al.]
Carbohydrate Polymers, v. 78, Issue 1, 4 August 2009, p. 36-40
Keywords: Chitosan; Cotton; Protonation; Adsorption; Charge; pH; pK; Titration; Potentiometric; Medical; Antimicrobial

472. Quantitative trait loci controlling plant architectural traits in cotton/
Xianliang Song, Tianzhen Zhang
Plant Science, v. 177, Issue 4, October 2009, p. 317-323
Keywords: Cotton; Plant architecture; QTL mapping; Epistatic QTL
473. Rheological properties of printing pastes and their influence on quality-determining parameters in screen printing of cotton with reactive dyes using recycled polysaccharide thickeners/ Rebeka Fijan ... [et al.]
Carbohydrate Polymers, v. 78, Issue 1, 4 August 2009, p. 25-35
Keywords: Polysaccharides; Thickener recycling; Textile; Rheology; Quality; Determining parameters
474. Sequential pegboard to support small farmers in cotton pest control decision-making in Cameroon/ T. Brevault ... [et al.]
Crop Protection, v. 28, Issue 11, 2009, p. 968-973
Keywords: Cotton; Bollworms; Spraying threshold; Sampling; Cameroon; Dissemination
475. Sex pheromone composition of the cotton caterpillar, *Palpita indica* (Lepidoptera: Pyralidae), in Korea/ Kyung San Choi ... [et al.]
Journal of Asia-Pacific Entomology, v. 12, Issue 4, 2009, p. 269-275
Keywords: Palpita indica; EAG; E-11-hexadecenal; E,E-10,12-hexadecadienal; GC-EAD;
476. Soil fungal population levels in cotton fields fertilized with poultry litter and their relationships to soil nutrient concentrations and plant growth parameters/ R.G. Pratt, H. Tewolde
Applied Soil Ecology, v. 41, Issue 1, January 2009, p. 41-49
Keywords: Fungal population levels; Poultry litter; Soil nutrient concentrations; Cotton; Animal waste disposal
477. Spatially variable insecticide applications for early season control of cotton insect pests/ J.M. McKinion ... [et al.]
Computers and Electronics in Agriculture, v. 67(1-2), 2009, p. 71-79

Keywords: Multispectral; Imaging; Spatially variable; Automation; Insecticide; WLAN; Wireless; Network

478. Sucrose metabolism in cotton (*Gossypium hirsutum* L.) fibre under low temperature during fibre development/ Hongmei Shu ... [et al.]
European Journal of Agronomy, v. 31, Issue 2, August 2009, p. 61-68

Keywords: Cotton fibre; Low temperature; Sucrose metabolism; Enzyme activity

479. Susceptibility of the cotton bollworm, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) to the *Bacillus thuringiensis* toxin Cry2Ab before and after the introduction of Bollgard-II/ S. Kranthi ... [et al.]
Crop Protection, v. 28, Issue 5, May 2009, p. 371-375

Keywords: Helicoverpa armigera; Bt cotton; Bacillus thuringiensis; Resistance; Cry2Ab

480. Testing for antibacterial properties of cotton/flax denim/ David T.W. Chun, Jonn A. Foulk, David D. McAlister III
Industrial Crops and Products, v. 29, Issues 2-3, 2009, p. 371-376

Keywords: Antibacterial properties; Bacteriostatic properties; Flax

481. Thermal analysis and devolatilization kinetics of cotton stalk, sugar cane bagasse and shea meal under nitrogen and air atmospheres/ S. Munir ... [et al.]
Bioresource Technology, v. 100, Issue 3, February 2009, p. 1413-1418

Keywords: Cotton stalk; Sugar cane bagasse; Shea meal; Thermal degradation; Kinetics

482. Using EPIC model to manage irrigated cotton and maize/ Jonghan Ko, Giovanni Piccinni, Evelyn Steglich
Agricultural Water Management, v. 96, Issue 9, 2009, p. 1323-1331

Keywords: Crop model; EPIC; Crop evapotranspiration; Irrigation management

483. Using ESAP software for predicting the spatial distributions of

- NDVI and transpiration of cotton/ D.J. Hunsake r... [et al.]
Agricultural Water Management, v. 96, Issue 9, 2009, p. 1293-1304
Keywords: Remote sensing; Crop coefficients; Irrigation management; Crop water use
484. Utilization of acrylates emulsion terpolymer with chitosan as a finishing agent for cotton fabrics/ H.E. Nasr ... [et al.]
Carbohydrate Polymers, v. 76, Issue 1, 2009, p. 36-45
Keywords: Antibacterial; Characterization; Chitosan; Cotton fabric; Dyeing; Finishing; UV-protection
485. Valorization of cotton stalks by fast pyrolysis and fixed bed air gasification for syngas production as precursor of second generation biofuels and sustainable agriculture/ E. Kantarelis, A. Zabaniotou
Bioresource Technology, v. 100, Issue 2, January 2009, p. 942-947
Keywords: Cotton stalks; Air gasification; Pyrolysis; Kinetics; Syngas
486. Viscosity of diesel oil and mixtures with straight vegetable oils: Palm, cabbage palm, cotton, groundnut, copra and sunflower/ Abolle Abolle, Loukou Kouakou, Henri Planche
Biomass and Bioenergy, v. 33, Issue 9, 2009, p. 1116-1121
Keywords: Straight vegetable oils; *Elaeis guineensis*; *Sabal palmetto*; *Gossypium hirsutum*; *Arachis hypogea*; *Cocos nucifera*; *Helianthus annuus*; Fuel blend; Viscosity; Biofuel; Diesel fuel

2010

ProQuest

487. Development and characterization of a cotton (*Gossypium hirsutum* L.) event with enhanced reproductive resistance to glyphosate / R Eric Cerny ... [et al.]
Crop Science, Madison: Jul/Aug 2010, v. 50(4), p. 1375-1384
Keyword: Cotton; Gossypium hirsutum; Characterization; Glyphosate
488. Effects of cultural system (organic and conventional) on growth and fiber quality of two cotton (*Gossypium hirsutum* L.) varieties/ Dimitrios Bilalis ... [et al.]
Agriculture and Food Systems, Cambridge: Sep 2010, v. 25(3), p. 228-235
Keywords: Gossypium hirsutum; Varieties; Fibres; Quality; Growth
489. Fiber quality and textile performance of some Australian cotton genotypes/ Robert L Long ... [et al.]
Crop Science, Madison: Jul/Aug 2010, v. 50(4), p. 1509-1518
Keyword: Fibres; Cotton; Quality; Textile Industry
490. Multi-level determination of heat tolerance in cotton (*Gossypium hirsutum* L.) under field conditions/ N S Cottee ... [et al.]
Crop Science, Madison: Nov/Dec 2010, v. 50(6), p. 2553-2564
Keywords: Cotton; Gossypium hirsutum; Heat tolerance
491. Phenological and growth interactions between velvetleaf (*Abutilon theophrasti* M.) and cotton (*Gossypium hirsutum* L.)/ J A Cortés-Martín, M A Mendiola-Ubillo, M Castejón-Muñoz
Journal of Agricultural Science, Toronto: Dec 2010, v. 2(4), p. 155-169
Keywords: Cotton; Gossypium hirsutum; Phenology; Growth; Abutilon theophrasti

492. Soil microbial communities and function in alternative systems to Continuous Cotton / V Acosta-Martínez ... [et al.]
Soil Science Society of America Journal, Madison:Jul/Aug 2010, v. 74(4), p. 1181-1192
Keyword: Cotton; Alternative Agriculture; Technology
493. Use of root gall ratings to determine high risk zones in cotton fields infested by *Meloidogyne incognita*/ J A Wrather ... [et al.]
Crop Science, Madison:Nov/Dec 2010, v. 50(6), p. 2575-2579
Keywords: Cotton; Crops; Risk; Rhizosphere

Science Direct

494. Airborne remote sensing assessment of the damage to cotton caused by spray drift from aerially applied glyphosate through spray deposition measurements/ Y. Huang ... [et al.]
Biosystems Engineering, v. 107, Issue 3, November 2010, p. 212-220
Keywords: Gossypium hirsutum; Glyposate; Analytical methods; Remote sensing
495. Alteration of cotton source-sink relations with plant population density and mepiquat chloride/ C.O. Gwathmey, J.D. Clement
Field Crops Research, v. 116, Issues 1-2, 3 2010, p. 101-107
Keywords: Gossypium hirsutum; Cotton; Source-sink relations; Plant population density; Mepiquat chloride; Starch reserves
496. Antimicrobial effect of silver nanoparticles produced by fungal process on cotton fabrics/ M.H. El-Rafie ... [et al.]
Carbohydrate Polymers, v. 80, Issue 3, 5 May 2010, p. 779-782
Keywords: Nanotechnology; Silver nanoparticles; Fungi; Antimicrobial; Cotton fabrics

497. Application of reactive cyclodextrin poly butyl acrylate preformed polymers containing nano-ZnO to cotton fabrics and their impact on fabric performance/ Amira El Shafei, S. Shaarawy, A. Hebeish
Carbohydrate Polymers, v. 79, Issue 4, 17 March 2010, p. 852-857
Keywords: Textile finishing; Nanoparticles; Cyclodextrin; Anti-microbial; Air permeability
498. Artificial neural network to predict leaf population chlorophyll content from cotton plant images/ Xing-mei SUO ... [et al.]
Agricultural Sciences in China, v. 9, Issue 1, January 2010, p. 38-45
Keywords: Artificial neural network; Image processing; Cotton plant; Leaf population; Chlorophyll content; Prediction
499. Assessment of photochemical reflectance index as a tool for evaluation of chlorophyll fluorescence parameters in cotton and peanut cultivars under water stress condition/ Shahenshah ... [et al.]
Agricultural Sciences in China, v. 9, Issue 5, May 2010, p. 662-670
Keywords: Arachis hypogaea; Gossypium hirsutum.; Non-Photochemical quenching; Photochemical reflectance index; Remote sensing; Water stress
500. Biological and oxidative treatment of cotton textile dye-bath effluents by fixed and fluidized bed reactors/ A. Baban ... [et al.]
Bioresource Technology, v. 101, Issue 4, February 2010, p. 1147-1152
Keywords: Azo dyes; Adsorption; COD fractions; Ozone oxidation
501. Biological control of Verticillium wilt on cotton by the use of fluorescent *Pseudomonas* spp. under field conditions/ Oktay Erdogan, Kemal Benlioglu
Biological Control, v. 53, Issue 1, April 2010, p. 39-45
Keywords: Verticillium; Cotton; Fluorescent Pseudomonas; Serratia plymuthica; Weed; Field trial

502. Bivalent insect-resistant gene transgenic cotton variety CCRI 41 with high efficiency and broad adaptability/ Xiang-mo GUO ... [et al.]
Agricultural Sciences in China, v. 9, Issue 5, May 2010, p. 101-109
Keywords: Gossypium hirsutum; Transgenic plants; Varieties; Pest insects resistance; Plant response; Genetic engineering
503. Canopy temperature based system effectively schedules and controls center pivot irrigation of cotton/ S.A. O'Shaughnessy, S.R. Evett
Agricultural Water Management, v. 97(9), 2010, p. 1310-1316
Keywords: Automatic irrigation; Cotton; Time temperature threshold
504. Changes in plant morphology and dry matter partitioning caused by potassium deficiency in *Gossypium hirsutum*/ E. Gerardeaux ... [et al.]
Environmental and Experimental Botany, v. 67(3), 2010, p. 451-459
Keywords: Leaf area; Water potential; Sucrose
505. Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations/ S.S. Daood ... [et al.]
Biomass and Bioenergy, v. 34, Issue 3, March 2010, p. 263-271
Keywords: Saccharum officinarum; Gossypium arboreum; Pakistani coal; Biomass; Char; Reactivity; Coats Redfern method; Non-isothermal kinetics
506. Characterization of two NADPH: Cytochrome P450 reductases from cotton (*Gossypium hirsutum*)/ Chang-Qing Yang ... [et al.]
Phytochemistry, v. 71, Issue 1, January 2010, p. 27-35
Keywords: Gossypium hirsutum; P450 reductase; Secondary metabolism; Gossypol

507. Chemical modification of chitosan with cationic hyperbranched dendritic polyamidoamine and its antimicrobial activity on cotton fabric/ Benjamas Klaykruayat, Krisana Siralermukul, Kawee Srikulkit
Carbohydrate Polymers, v. 80, Issue 1, 25 March 2010, p. 197-207
Keywords: Cationic hyperbranched; Polyamidoamine; Modification of chitosan; Antimicrobial activity; S. aureus; Cotton fabric
508. Chitosan and monochlorotriazinyl-[beta]-cyclodextrin finishes improve antistatic properties of cotton/polyester blend and polyester fabrics/ E.S. Abdel-Halim ... [et al.]
Carbohydrate Polymers, v. 82, Issue 1, 2 August 2010, p. 202-208
Keywords: Chitosan; Monochlorotriazinyl; beta-cyclodextrins; Antistatic finishing; Polyester; Cotton; Polyester blend
509. Classification of foreign fibers in cotton lint using machine vision and multi-class support vector machine/ Daoliang Li, Wenzhu Yang, Sile Wang
Computers and Electronics in Agriculture, v. 74(2), 2010, p. 274-279
Keywords: Foreign fiber; Machine vision; Classification;
510. Combustion characteristics of cotton stalk in FBC/ Zhiao Sun ... [et al.]
Biomass and Bioenergy, v. 34, Issue 5, May 2010, p. 761-770
Keywords: Cotton stalk; Fluidized bed; Mixing characteristics; Combustion characteristics; Bed material
511. Comparison of airborne multispectral and hyperspectral imagery for mapping cotton root rot/ Chenghai Yang, James H. Everitt, Carlos J. Fernandez
Biosystems Engineering, v. 107, Issue 2, October 2010, p. 131-139
Keywords: Gossypium hirsutum; Plant diseases; Root rot; Genetic marker; Analytical methods

512. Cotton, wheat and white lupin differ in phosphorus acquisition from sparingly soluble sources/ Xiaojuan Wang ... [et al.]
Environmental and Experimental Botany, v. 69, Issue 3, December 2010, p. 267-272
Keywords: Rhizosphere pH; Rhizosphere exchangeable; Root; Accumulation
513. Deficit irrigation and nitrogen effects on seed cotton yield, water productivity and yield response factor in shallow soils of semi-arid environment/ Yudhveer Singh, Sajjan Singh Rao, Panna Lal Regar
Agricultural Water Management, v. 97, Issue 7, 2010, p. 965-970
Keywords: Drip irrigation; Evapotranspiration; Deficit irrigation; Nitrogen; Seeds; Cotton; Yields; Yield response
514. Degradation of soil fertility following cycles of cotton-cereal cultivation in Mali, West Africa: A first approximation to the problem/ Giora J. Kidron, Arnon Karnieli, Itzhak Benenson
Soil and Tillage Research, v. 106, Issue 2, January 2010, p. 254-262
Keywords: Cotton; Soil cultivation; Nutrients; Nitrogen; Organic matter; Mali
515. Detecting stink bugs/damage in cotton utilizing a portable electronic nose/ Will G. Henderson ... [et al.]
Computers and Electronics in Agriculture, v. 70, Issue 1, January 2010, p. 157-162
Keywords: Electronic nose; Stink bugs; Cotton; Volatiles; Precision agriculture
516. Developing a novel UV protection process for cotton based on layer-by-layer self-assembly/ Q. Wang, P.J. Hauser
Carbohydrate Polymers, v. 81, Issue 2, 11 June 2010, p. 491-496
Keywords: UV protection; Cationized cotton; Fluorescent brightening agent

517. Differential cotton leaf crumple virus-VIGS-mediated gene silencing and viral genome localization in different *Gossypium hirsutum* genetic backgrounds/ Ali M. Idris ... [et al.]
Physiological & Molecular Plant Pathology, v. 75(1-2), 2010, p. 13-22
Keywords: Begomovirus; Cotton breeding; Cotton genetics; Genetic improvement; Geminivirus; Magnesium chelatase marker; Viral episome
518. Differential expression, phosphorylation of COX subunit 1 and COX activity during diapause phase in the cotton bollworm, *Helicoverpa armigera*/ Jing Yang, Jia Zhu, Wei-Hua Xu
Journal of Insect Physiology, v. 56, Issue 12, 2010, p. 1992-1998
Keywords: Diapause termination; Cytochrome oxidase; Clone; Protein phosphorylation; Helicoverpa armigera
519. Effect of high night temperatures on cotton respiration, ATP levels and carbohydrate content/D.A. Loka, D.M. Oosterhuis
Environmental and Experimental Botany, v. 68(3) 2010, p. 258-263
Keywords: Cotton; Night temperature; Respiration; Carbohydrates
520. Effect of H₂O₂ on fiber initiation using fiber retardation initiation mutants in cotton (*Gossypium hirsutum*)/ Dayong Zhang, Tianzhen Zhang, Wangzhen Guo
Journal of Plant Physiology, v. 167, Issue 5, March 2010, p. 393-399
Keywords: Cotton; Gossypium hirsutum; Retardation development
521. Effective antibacterial adhesive coating on cotton fabric using ZnO nanorods and chalcone/ P.M. Sivakumar ... [et al.]
Carbohydrate Polymers, v. 79, Issue 3, 11 February 2010, p. 717-723
Keywords: Nanorods; Chalcone;

522. Effects of pigment glands and gossypol on growth, development and insecticide-resistance of cotton bollworm (*Heliothis armigera* (Hubner))/ Guangchao Kong, Muhammad. K. Daud, Shuijin Zhu
Crop Protection, v. 29, Issue 8, August 2010, p. 813-819
Keywords: Gossypium hirsutum; Host plant resistance; Insecticide tolerance; Mechanisms; Detoxifying enzymes
523. Effects of plant density and nitrogen and potassium fertilization on cotton yield and uptake of major nutrients in two fields with varying fertility/ Hezhong Dong ... [et al.]
Field Crops Research, v. 119, Issue 1, 2010, p. 106-113
Keywords: Cotton; Plant density; Nitrogen fertilizer; Potassium fertilizer; Yields; Nutrient uptake; Nutrient use efficiency
524. Enhancement of refuges for *Helicoverpa armigera* (Lepidoptera: Noctuidae) used in the resistance management plan for cotton (*Gossypium hirsutum* L.) containing Bollgard II® traits/ Stewart J. Addison
Agriculture, Ecosystems & Environment, v. 135, Issue 4, 1 February 2010, p. 328-335
Keywords: Bacillus thuringiensis; Magnet; Transgenic crops; Pigeonpea; Oviposition; Bt resistance; Insect-attraction technology
525. ENSO-based climate variability affects water use efficiency of rainfed cotton grown in the southeastern USA/ Axel Garcia y Garcia ... [et al.]
Agriculture, Ecosystems & Environment, v. 139(4), 2010, p. 629-635
Keywords: El Nino; Southern Oscillation; Gossypium hirsutum; Water productivity; Cotton
526. Evaluation of hydraulic lift in cotton (*Gossypium hirsutum* L.) germplasm/ B.L. McMichael, Robert J. Lascano
Environmental and Experimental Botany, v. 68, Issue 1, March 2010, p. 26-30
Keywords: Cotton; Roots; Water uptake; Water content

527. Evaluation of *Lecanicillium longisporum*, Vertalec(R) against the cotton aphid, *Aphis gossypii*, and cucumber powdery mildew, *Sphaerotheca fuliginea* in a greenhouse environment/ Jeong Jun Kim ... [et al.]
Crop Protection, v. 29, Issue 6, June 2010, p. 540-544
Keywords: Aphis gossypii; Cotton aphid; Dual control; Entomopathogenic fungi; Lecanicillium longisporum; Microbial control; Powdery mildew; Sphaerotheca fuliginea; Verticillium lecanii
528. Evaluation of multifunctional properties of cotton fabric based on metal/chitosan film/ M. Gouda, S.M.A.S. Keshk
Carbohydrate Polymers, v. 80, Issue 2, 12 April 2010, p. 504-512
Keywords: Chitosan film; UV-protection; Metal oxides; Antibacterial finishing
529. Expression responses of nine cytochrome P450 genes to xenobiotics in the cotton bollworm *Helicoverpa armigera*/ Xiaojie Zhou ... [et al.]
Pesticide Biochemistry and Physiology, v. 97, Issue 3, July 2010, p. 209-213
Keywords: Helicoverpa armigera; Cytochrome P450; Xenobiotics; Induction; Gossypol; Xanthotoxin; Phenobarbital; Deltamethrin
530. Feasibility of incorporating cotton seed extract in Clostridium strain P11 fermentation medium during synthesis gas fermentation/ Dimple K. Kundiyana ... [et al.]
Bioresource Technology, v. 101, Issue 24, December 2010, p. 9673-9680
Keywords: Ethanol; Syngas; Clostridium; Cotton seed extract; Acetogenic bacteria
531. Gene identification and proteomic analysis of the esterases of the cotton bollworm, *Helicoverpa armigera*/ Mark G. Teese ... [et al.]
Insect Biochemistry and Molecular Biology, v. 40, Issue 1, January 2010, p. 1-16
Keywords: Comparative genomics; Cholinesterase; adhesion molecule; Protein purification.

532. Genetic analysis of homozygous-dominant-surviving ligo lintless recombinants in cotton (*Gossypium hirsutum* L.)/ Feng-Ju LIU, Wen-Hua LIANG, Tian-Zhen ZHANG
Acta Agronomica Sinica, Volume 36, Issue 12, December 2010, p. 2020-2027
Keywords: Ligo lintless; Recombinant; Homozygous; Phenotype
533. Genetic variability among cotton genotypes for cold tolerance/ Yuksel Bolek
Field Crops Research, v. 119, Issue 1, 2010, p. 59-67
Keywords: Cotton; Gossypium; Genotype; Cold tolerance; Germination; Screening
534. Gibberellin 20-oxidase promotes initiation and elongation of cotton fibers by regulating gibberellin synthesis/ Yue-Hua Xiao ... [et al.]
Journal of Plant Physiology, v. 167, Issue 10, 1 July 2010, p. 829-837
Keywords: Fiber elongation; Fiber initiation; GA 20-oxidase; Gibberellin; Gossypium hirsutum
535. Growth promotion and protection against salt stress by *Pseudomonas putida* Rs-198 on cotton/ Lixia Yao ... [et al.]
European Journal of Soil Biology, v. 46, Issue 1, 2010, p. 49-54
Keywords: Pseudomonas putida; Protection against; Salt stress; Cotton; Growth
536. Histopathology and ultrastructure of midgut of *Alabama argillacea* (Hubner) (Lepidoptera: Noctuidae) fed Bt-cotton/ Maria Esmeralda C. Sousa ... [et al.]
Journal of Insect Physiology, v. 56, Issue 12, 2010, p. 1913-1919
Keywords: Bollgard; Lepidoptera; Microscopy; Cotton leafworm; Bacillus thuringiensis

537. Immobilization of silver nanoparticles synthesized using *Curcuma longa* tuber powder and extract on cotton cloth for bactericidal activity/ Muthuswamy Sathishkumar, Krishnamurthy Sneha, Yeoung-Sang Yun
Bioresource Technology, v. 101, Issue 20, October 2010, p. 7958-7965
Keywords: Bioreduction; Silver; Nanoparticles; Curcuma longa; Antimicrobial activity
538. Impact of different levels of non-Bt cotton refuges on pest populations, bollworm damage, and Bt cotton production/ G.T. Gujar ... [et al.]
Journal of Asia-Pacific Entomology, v. 13 (4), 2010, p. 249-253
Keywords: Refugia; Transgenic Bt cotton; Bollworms; Yield
539. Impact of no tillage and mulching practices on cotton production in North Cameroon: A multi-locational on-farm assessment/ K. Naudin ... [et al.]
Soil and Tillage Research, v. 108, Issues 1-2, May-June 2010, p. 68-76
Keywords: Sorghum; Maize; Cover crops; Conservation agriculture; Africa
540. Imparting durable antimicrobial properties to cotton fabrics using alginate-quaternary ammonium complex nanoparticles/ Hyung Woo Kim, Bo Ra Kim, Young Ha Rhee
Carbohydrate Polymers, v. 79, Issue 4, 17 March 2010, p. 1057-1062
Keywords: Antimicrobial; Textile finish; Alginate; Nanoparticles; Quaternary ammonium compound
541. Incorporation of chlorohexidin diacetate into cotton fabrics grafted with glycidyl methacrylate and cyclodextrin/ E.S. Abdel-Halim ... [et al.]
Carbohydrate Polymers, v. 79, Issue 1, 5 January 2010, p. 47-53
Keywords: Chlorohexidin diacetate; beta-Cyclodextrin; Inclusion complex; Cotton fabric; Antimicrobial finishing

542. Increasing incomes of Malian cotton farmers: Is elimination of US subsidies the only solution?/ Felix G. Baquedano, John H. Sanders, Jeffrey Vitale
Agricultural Systems, v. 103, Issue 7, September 2010, p. 418-432
Keywords: Cotton subsidies; Bt cotton; Improved sorghum; technology of marketing; Mali
543. Inheritance of Cry1Ac resistance and associated biological traits in the cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae)/ Rupa Nair ... [et al.]
Journal of Invertebrate Pathology, v. 104, Issue 1, May 2010, p. 31-38
Keywords: Helicoverpa armigera; Cry1Ac; Inheritance; Biological traits
544. Insecticidal activities of crude extracts and phospholipids from *Chenopodium ficifolium* against melon and cotton aphid, *Aphis gossypii*/ Quang Le Dang ... [et al.]
Crop Protection, v. 29, Issue 10, October 2010, p. 1124-1129
Keywords: Aphis gossypii; Chenopodium ficifolium; Cucumber; Insecticidal activity; Phospholipids
545. Investigation of insecticidal activity of rye [alpha]-amylase inhibitor gene expressed in transgenic tobacco (*Nicotiana tabacum*) toward cotton boll weevil (*Anthonomus grandis*)/ Simoni Campos Dias ... [et al.]
Pesticide Biochemistry and Physiology, v. 98, Issue 1, 2010, p. 39-44
Keywords: alpha-Amylase; Inhibitor; Transgenic plants; Insect pest; Cotton
546. Irrigated cotton in the tropical dry season. I: Yield, its components and crop development/ S.J. Yeates, G.A. Constable, T. McCumstie
Field Crops Research, v. 116, Issue 3, 2010, p. 278-289
Keywords: Cotton; Semi-arid tropics; Gossypium barbadense; Dry season; Plant mapping; Crop development

547. Irrigated cotton in the tropical dry season. II: Biomass accumulation, partitioning and RUE/ S.J. Yeates, G.A. Constable, T. McCumstie
Field Crops Research, v. 116, Issue 3, 2010, p. 290-299
Keywords: Cotton; Semi-arid tropics; Gossypium barbadense; Dry season; Radiation use efficiency; Biomass; Growth rate
548. Irrigated cotton in the tropical dry season. III: Impact of temperature, cultivar and sowing date on fibre quality/ S.J. Yeates, G.A. Constable, T. McCumstie
Field Crops Research, v. 116, Issue 3, 2010, p. 300-307
Keywords: Cotton; Fibre length; Fibre strength; Micronaire; Temperature; Semi-arid tropics; Gossypium barbadense
549. Microgel-based surface modifying system for stimuli-responsive functional finishing of cotton/ Amit Kulkarni ... [et al.]
Carbohydrate Polymers, v. 82, Issue 4, 2010, p. 1306-1314
Keywords: Cotton; Chitosan; Microparticle; Hydrogel
550. Midgut GPI-anchored proteins with alkaline phosphatase activity from the cotton boll weevil (*Anthonomus grandis*) are putative receptors for the Cry1B protein of *Bacillus thuringiensis*/ E.S. Martins ... [et al.]
Insect Biochemistry and Molecular Biology, v. 40, Issue 2, 2010, p. 138-145
Keywords: Cry1B; Bacillus thuringiensis; Anthonomus grandis
551. Modeling the population dynamics of cotton bollworm *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) over a wide area in northern China/ Hongqiang Feng ... [et al.]
Ecological Modelling, v. 221, Issue 15, 24 July 2010, p. 1819-1830
Keywords: Helicoverpa armigera; Population dynamics; Computer modeling
552. Moisture variation and modeling of cotton and soybean seeds under different storage conditions/ Jing WANG ... [et al.]
Acta Agronomica Sinica, v. 36, Issue 7, July 2010, p. 1161-1168
Keywords: Seed storage; Moisture absorption; Equilibrium moisture; Initial moisture content

553. Molecular cloning and characterization of a prenyltransferase from the cotton aphid, *Aphis gossypii*/ Guang-Yuan Ma ... [et al.]
Insect Biochemistry and Molecular Biology, v. 40(7), 2010, p. 552-561
Keywords: Prenyltransferase; Southern blot; Tissue culture; Gene expression; Aphis gossypii
554. Mulching and water quality effects on soil salinity and sodicity dynamics and cotton productivity in Central Asia/ G.A. Bezborodov ... [et al.]
Agriculture Ecosystems & Environment, v. 138, Issues 1-2, 15 June 2010, p. 95-102
Keywords: Water scarcity; Water quality; Soil salinity; Soil sodicity; Crop water productivity; Wheat straw; Cotton yield; Uzbekistan
555. Multi-location investigation of optimum planting density and boll distribution of high-yielding cotton (*G. hirsutum* L.) in Hubei Province, China/ Guo-zheng YANG, Ming-yan ZHOU
Agricultural Sciences in China, v. 9, Issue 12, 2010, p. 1749-1757
Keywords: Gossypium hirsutum; Planting population
556. New approach for natural dyeing and functional finishing of cotton cellulose/ N.A. Ibrahim ... [et al.]
Carbohydrate Polymers, v. 82, Issue 4, 2010, p. 1205-1211
Keywords: Cotton knits; Metal salts; Pre-mordanting; Natural dyes; UV-blocking; Antibacterial function
557. Nitrophenolates spray can alter boll abscission rate in cotton through enhanced peroxidase activity and increased ascorbate and phenolics levels/ M. Djanaguiraman ... [et al.]
Journal of Plant Physiology, v. 167, Issue 1, 1 January 2010, p. 1-9
Keywords: Antioxidant; Enzymes; Ascorbate; Oxidative stress; Peroxidase; Phenolics
558. Novel approach for improving disperse dyeing and UV-protective function of cotton-containing fabrics using MCT-[beta]-CD/ N.A. Ibrahim, W.R. E-Zairy, B.M. Eid
Carbohydrate Polymers, v. 79, Issue 4, 17 March 2010, p. 839-846
Keywords: Cotton-based textiles; Monochlorotriazine-[beta]-CD; Combined grafting; UV-protection

559. Novel approach for low temperature bleaching and carbamoylethylation of cotton cellulose/ Nabil A. Ibrahim, Samar S. Sharaf, Mohamed M. Hashem
Carbohydrate Polymers, v. 82, Issue 4, 2010, p. 1248-1255
Keywords: Cotton; Cellulose; Bleaching; Carbamoylethylation; Combined process; Dyeing; Physical properties
560. Optimization of cotton seed biodiesel quality (critical properties) through modification of its FAME composition by highly selective homogeneous hydrogenation/ Christos E. Papadopoulos ... [et al.]
Bioresource Technology, v. 101, Issue 6, March 2010, p. 1812-1819
Keywords: Biodiesel properties; Empirical models; Cotton seed; Oil methyl esters; Partial hydrogenation; Rhodium
561. Partial rootzone irrigation increases water use efficiency, maintains yield and enhances economic profit of cotton in arid area/ Li-Song Tang, Yan Li, Jianhua Zhang
Agricultural Water Management, v. 97, Issue 10, 2010, p. 1527-1533
Keywords: Partial rootzone; Irrigation; Evaporation; Transpiration; Water use efficiency; Yield; Arid area; Cotton; Gossypium hirsutum
562. Pre-cationization of cotton fabrics: An effective alternative tool for activation of hydrogen peroxide bleaching process/ Mohamed Hashem ... [et al.]
Carbohydrate Polymers, v. 79, Issue 3, 11 February 2010, p. 533-540
Keywords: Bleaching; Catalyst; Cationization;; Cotton fabric; Hydrogen peroxide; Whiteness index
563. Properties of thermoplastic rice starch composites reinforced by cotton fiber or low-density polyethylene/ J. Prachayawarakorn, P. Sangnitdej, P. Boonpasith
Carbohydrate Polymers, v. 81, Issue 2, 11 June 2010, p. 425-433
Keywords: Biodegradable polymer; Thermoplastic starch; Rice starch; Cotton fiber; Low-density polyethylene

564. Pyrethroid resistance and esterase activity in three strains of the cotton bollworm, *Helicoverpa armigera* (Hubner)/ Ashraf O. Abd El-Latif, B. Subrahmanyam
Pesticide Biochemistry and Physiology, v. 96, Issue 3, 2010, p. 155-159
Keywords: Helicoverpa armigera; Pyrethroid resistance; Esterase; Microplate assay
565. Pyrethroid synergists suppress esterase-mediated resistance in Indian strains of the cotton bollworm, *Helicoverpa armigera* (Hubner)/ Ashraf O. Abd El-Latif, B. Subrahmanyam
Pesticide Biochemistry and Physiology, v. 97, Issue 3, 2010, p. 279-288
Keywords: Helicoverpa armigera; Pyrethroid resistance; Esterase; Piperonyl butoxide; Dihydrodillapiole
566. Pyrosequencing analysis for characterization of soil bacterial populations as affected by an integrated livestock-cotton production system/ V. Acosta-Martinez ... [et al.]
Applied Soil Ecology, v. 45, Issue 1, May 2010, p. 13-25
Keywords: rRNA; Pyrosequencing; Grazing; Soil management; Enzyme activities; Microbial community
567. Quantitative trait loci for resistance against Fusarium wilt based on three cotton F2 populations/ Pei-zheng WANG ... [et al.]
Agricultural Sciences in China, v. 9, Issue 12, 2010, p. 1799-1806
Keywords: Cotton; Fusarium; Plant resistance; Molecular technology; Genetic marker
568. Relative abundance and damage by target and non-target insects on Bollgard and BollgardII cotton cultivars/ R.S. Mann ... [et al.]
Crop Protection, v. 29, Issue 8, 2010, p. 793-801
Keywords: Cotton; Helicoverpa armigera; Earias.; Jassid; Whitefly; Predators
569. Row spacing, tillage system, and herbicide technology affects cotton plant growth and yield/ Kipling S. Balkcom ... [et al.]
Field Crops Research, v. 117, Issues 2-3, 2010, p. 219-225
Keywords: Coastal; Plain soil; Ultra-narrow; Cotton

570. Shea meal and cotton stalk as potential fuels for co-combustion with coal/ S. Munir, W. Nimmo, B.M. Gibbs
Bioresource Technology, v. 101, Issue 19, October 2010, p. 7614-7623
Keywords: NO_x; SO₂; Co-combustion; Air-staged; Reburning
571. Short-term effects of tillage and residue management following cotton on grain yield and quality of wheat/ S. Gursoy, A. Sessiz, S.S. Malhi
Field Crops Research, v. 119, Issues 2-3, 2010, p. 260-268
Keywords: Tillage; Residue management; Wheat; Grain quality; Yield
572. Sodium periodate oxidized cotton yarn as carrier for immobilization of trypsin/ Tanja Nikolic ... [et al.]
Carbohydrate Polymers, v. 82, Issue 3, 2010, p. 976-981
Keywords: Cotton yarn; Sodium; Periodate oxidation; Trypsin; Immobilization; Storage stability
573. Soil water storage and drainage under cotton-based cropping systems in a furrow-irrigated Vertisol/ N.R. Hulugalle, T.B. Weaver, L.A. Finlay
Management, v. 97, Issue 10, 2010, p. 1703-1710
Keywords: Minimum tillage; Stubble retention; Rotation; Vertosol; Permanent beds; Hydrology
574. Study on DNA cytosine methylation of cotton (*Gossypium hirsutum* L.) genome and its implication for salt tolerance/ Yun-lei ZHAO ... [et al.]
Agricultural Sciences in China, v. 9, Issue 6, June 2010, p. 783-791
Keywords: Cotton; DNA methylation; Salt stress; Methylation; Polymorphism
575. Synthesis and application of modified vegetable oils in water-repellent finishing of cotton fabrics/ Qingqing Ren, Tao Zhao
Carbohydrate Polymers, v. 80, Issue 2, 12 April 2010, p. 381-386
Keywords: Vegetable oil; Modification; Cotton fabrics; Water repellency

576. Synthesis of cellulose acetate from cotton byproducts/ H.N. Cheng ... [et al.]
Carbohydrate Polymers, v. 80, Issue 2, 12 April 2010, p. 449-452
Keywords: Agricultural; Byproducts; Cellulose; Cellulose acetate; Cotton burr; Cottonseed; Iodine
577. Toxicity and biochemical study of two insect growth regulators, buprofezin and pyriproxyfen, on cotton leafworm *Spodoptera littoralis*, pesticide/ Hoda M. Nasr, Mohamed E.I. Badawy, Entsar I. Rabea
Biochemistry and Physiology, v. 98, Issue 2, October 2010, p. 198-205
Keywords: Insect growth regulators; Buprofezin; Pyriproxyfen; Spodoptera littoralis; Chitinase
578. Unequal salt distribution in the root zone increases growth and yield of cotton/ Hehzong Dong ... [et al.]
European Journal of Agronomy, v. 33, Issue 4, 2010, p. 285-292
Keywords: Cotton; Furrow seeding; Salinity stress; Split-root system; Unequal salt distribution
579. Value chain analysis of the organic cotton industry: The case of UK retailers and Indian suppliers/Alison Rieple, Rajbir Singh
Ecological Economics, v. 69, Issue 11, Special Section - Payments for Ecosystem Services: From Local to Global, 2010, p. 2292-2302
Keywords: Fashion industry; Organic cotton; Value chain analysis; India

2011

ProQuest

580. Gene flow between *Gossypium hirsutum* L. and *Gossypium barbadense* L. is Asymmetric / Allen E Van Deynze, Robert B Hutmacher, Kent J Bradford
Crop Science, Madison: Jan/Feb 2011, v. 51(1), p. 298-305
Keywords: Gossypium hirsutum; Gossypium barbadense; Asymmetric
581. Germplasm potential for continuing improvement of fiber quality in upland cotton: combining ability for lint yield and fiber quality/ Linghe Zeng, William R Meredith Jr, Deborah L Boykin
Crop Science, Madison: Jan/Feb 2011, v. 51(1), p. 60-68
Keywords: Cotton; Fiber crops; Yields; Combining ability; Germplasm; Production possibilities
582. Intra-cultivar variation in cotton: response to single-plant yield selection at low density / I.S. Tokatlidis ... [et al.]
Journal of Agricultural Science. Cambridge: Apr 2011, v. 149(2), p. 197-204
Keywords: Cotton; Cultivar variation; Plant yield: Selection; Low density

Science Direct

583. Agronomic, economic and behavioral analysis of N application to cotton and wheat in post-Soviet Uzbekistan/ Kirsten M. Kienzler, Nodir Djanibekov, John P.A. Lamers
Agricultural Systems, In Press, Corrected Proof, Available online 19 February 2011
Keywords: Cotton; Winter wheat; Yields; Analysis; N-fertilizer; Economic; Uzbekistan

584. Biochemical and physiological changes on *Bacillus thuringiensis* cotton after imidacloprid foliar spray/ Navreet Kaur, Baldev Singh Sohal, Kuldip Singh
Pesticide Biochemistry and Physiology, v. 99, Issue 3, 2011, p. 280-284
Keywords: Bacillus thuringiensis; Cry toxin; ELISA; Growth; Imidacloprid
585. Carbon dioxide fluxes and concentrations in a cotton field in Northwestern China: Effects of plastic mulching and drip irrigation/ Zhi-Guo LI ... [et al.]
Pedosphere, v. 21, Issue 2, April 2011, p. 178-185
Keywords: Agricultural; Carbondioxide; Greenhouse; Gas Emission; Soil respiration; Weathering reaction
586. Chemical modification of cotton-based natural materials: Products from carboxymethylation/ H.N. Cheng, Atanu Biswas
Carbohydrate Polymers, v. 84, Issue 3, 17 March 2011, p. 1004-1010
Keywords: Cotton; Carboxymethyl derivatives; Cellulose; Hemicellulose; Xylan
587. Chitosan derivatives with dual-antibacterial functional groups for antimicrobial finishing of cotton fabrics/ Xiaorong Fu ... [et al.]
Carbohydrate Polymers, In Press, Corrected Proof, Available online 15 February 2011
Keywords: Chitosan; Double functional; Chitosan derivatives; Cotton fabric; Textile finishing; Antibacterial activity
588. Comparative effectiveness and field persistence of insect growth regulators on a field strain: Noctuidae/ El-Sayed A. El-Sheikh, Mohamed M. Aamir
Crop Protection, In Press, Corrected Proof, Available online 11 March 2011
Keywords: Bioassay; Cotton Leafworm; Spodoptera littoralis; IGRs; Persistence

589. Consequences of immature fiber on the processing performance of Upland cotton/ Robert L. Long, Michael P. Bange
Field Crops Research, v. 121, Issue 3, 3 April 2011, p. 401-407
Keywords: Cotton fiber; Maturity; Fineness; Cotton dyeing; Ribbon width; Fiber diameter; Yarn strength
590. Cross-resistance, inheritance and stability of resistance to acetamiprid in cotton whitefly, *Bemisia tabaci* Genn (Hemiptera: Aleyrodidae)/ Muhammad Basit ... [et al.]
Crop Protection, In Press, Corrected Proof, Available online 10 March 2011
Keywords: Bemisia tabaci; Neonicotinoids; Acetamiprid; Cross-resistance; Monogenic resistance; Stability of resistance
591. Deficit irrigation for enhancing sustainable water use: Comparison of cotton nitrogen uptake and prediction of lint yield in a multivariate autoregressive state-space model/ Hong Li, Robert J. Lascano
Environmental and Experimental Botany, v. 71, Issue 2, June 2011, p. 224-231
Keywords: Alfisols; Cotton; Drought stress; Deficit irrigation; Field landscape; Attributes; Plant-water relations; Reflectance; Water index
592. Delineating the drivers of waning wildlife habitat: The predominance of cotton farming on the fringe of protected areas in the Mid-Zambezi Valley, Zimbabwe/ Frederic Baudron ... [et al.]
Biological Conservation, In Press, Corrected Proof, Available online 21 February 2011
Keywords: Zimbabwe; Agricultural frontier; Wildlife; Livelihood; Tsetse fly; Cotton
593. Effect of elevated O₃ associated with Bt cotton on the abundance, diversity and community structure of soil Collembola/ Liang Chang, Xianghui Liu, Feng Ge
Applied Soil Ecology, v. 47, Issue 1, January 2011, p. 45-50
Keywords: Elevated O₃; Transgenic Bt cotton; Collembola; Open-top chamber

594. Effects of deficit irrigation on the yield and yield components of drip irrigated cotton in a mediterranean environment/ Mustafa Unlu ... [et al.]
Agricultural Water Management, v. 98(4), 2011, p. 597-605
Keywords: Crop growth parameters; Cotton; Drip irrigation; Water use efficiency; Evapotranspiration
595. Effects of transgenic Bt cotton on overwintering characteristics and survival of *Helicoverpa armigera*/ Fang Ouyang ... [et al.]
Journal of Insect Physiology, v. 57, Issue 1, January 2011, p. 153-160
Keywords: Bt cotton; Cold-hardiness; Diapause; Helicoverpa armigera; Pupal survival
596. Functional analysis of *Gossypium hirsutum* cellulose synthase catalytic subunit 4 promoter in transgenic Arabidopsis and cotton tissues/ Hee Jin Kim ... [et al.]
Plant Science, v. 180, Issue 2, February 2011, p. 323-332
Keywords: Cellulose synthase; Catalytic subunit; Cellulose biosynthesis; Cotton; Gossypium hirsutum; Promoter analysis; Secondary cell wall
597. Identification of salt responsive genes using comparative microarray analysis in Upland cotton (*Gossypium hirsutum* L.)/ Laura Rodriguez-Urbe ... [et al.]
Plant Science, v. 180, Issue 3, March 2011, p. 461-469
Keywords: Gossypium hirsutum; Salt tolerance; Intraspecific population; Bulked segregant analysis; Microarray
598. Impact of area-wide malathion on predatory arthropods and secondary pests in cotton during boll weevil eradication in Texas/ Allen E. Knutson ... [et al.]
Crop Protection, v. 30, Issue 4, April 2011, p. 456-467
Keywords: Anthonomus grandis; Boll weevil eradication; Cotton; Spodoptera exigua; Biological control; Secondary pest outbreak; Malathion

599. Impact of fertilization on cotton aphid population in Bt-cotton production system/ Tian-Cheng Ai ... [et al.]
Ecological Complexity, v. 8, Issue 1, March 2011, p. 9-14
Keywords: Bt-cotton; Cotton aphid; Nitrogen; Potassium; Pest management
600. IPM of mirids in Australian cotton: Why and when pest managers spray for mirids/ M.E.A. Whitehouse
Agricultural Systems, v. 104, Issue 1, January 2011, p. 30-41
Keywords: Integrated pest management; Insecticides; Cotton; Interpretive knowledge; Threshold; Australia
601. Molecular identification and expression analysis of GhHYDRA1 gene, a homologue of HYDRA1 gene from upland cotton (*Gossypium hirsutum* L.)/ Zhen-le ZANG ... [et al.]
Agricultural Sciences in China, v. 10, Issue 1, January 2011, p. 41-48
Keywords: Cotton Fiber; Phytosterols; Brassinosteroids; GhHYDRA1
602. Novel precursors for green synthesis and application of silver nanoparticles in the realm of cotton finishing/ A. Hebeish ... [et al.],
Carbohydrate Polymers, v. 84, Issue 1, 11 February 2011, p. 605-613
Keywords: Beta-cyclodextrin; Grafting; Silver nanoparticles; Ultrasonic technique; Cotton antibacterial
603. Overexpressed esterases in a fenvalerate resistant strain of the cotton bollworm, *Helicoverpa armigera*/ Shuwen Wu ... [et al.]
Insect Biochemistry and Molecular Biology, v. 41(1), 2011, p. 14-21
Keywords: Carboxylesterase; Pyrethroids; Metabolic resistance
604. Photoactive antibacterial cotton fabrics treated by 3,3',4,4'-benzophenonetetracarboxylic dianhydride/ Kyung Hwa Hong, Gang Sun
Carbohydrate Polymers, v. 84, Issue 3, 17 March 2011, p. 1027-1032
Keywords: Photoactive; Antimicrobial function; Cotton fabrics; Benzophenonetetracarboxylic dianhydride

605. Preparation and characterization of cellulose nanowhiskers from cotton fibres by controlled microbial hydrolysis/ P. Satyamurthy ... [et al.]
Carbohydrate Polymers, v. 83, Issue 1, 1 January 2011, p. 122-129
Keywords: Cellulase; Cellulose nanowhiskers; Chiral nematic phase; Trichoderma; Microcrystalline cellulose; Nanomaterials
606. Properties of thermoplastic composites with cotton and guayule biomass residues as fiber fillers/ Sreekala G. Bajwa ... [et al.]
Industrial Crops and Products, In Press, Corrected Proof, Available online 16 February 2011
Keywords: Thermoplastic composites; Agricultural residue; Lingo-cellulosic fiber; Cotton; Guayule
607. Relationships between differential gene expression and heterosis in cotton hybrids developed from the foundation parent CRI-12 and its pedigree-derived lines/ Xinxia Zhu ... [et al.]
Plant Science, v. 180, Issue 2, February 2011, p. 221-227
Keywords: Differential gene expression; Heterosis; Cotton; Foundation parent
608. Screening strategy of fungal biocontrol agents towards Verticillium wilt of cotton/ Y. Zheng ... [et al.]
Biological Control, v. 56, Issue 3, March 2011, p. 209-216
Keywords: Verticillium; Cotton; Antagonist; Biocontrol; Screening strategy; Assessment
609. Self-cleaning properties of bleached and cationized cotton using nanoTiO₂: A statistical approach/ A. Nazari ... [et al.]
Carbohydrate Polymers, v. 83, Issue 3, 30 January 2011, p. 1119-1127
Keywords: Self-cleaning; Butane tetra; Carboxylic acid; NanoTiO₂; Cationized cotton; UV irradiation; Central composite design

610. Sequestering carbon in minimum-tilled clay soils used for irrigated cotton and grain production/ Ian J. Rochester
Soil and Tillage Research, v. 112, Issue 1, March 2011, p. 1-7
Keywords: Carbon sequestration; Soil organic carbon; Cotton stubble; Legume stubble; Minimum tillage
611. Short-season cotton (*Gossypium hirsutum*) may be a suitable response to late planting in sub-Saharan regions/ Tuong-Vi Cao ... [et al.]
Field Crops Research, v. 120, Issue 1, 14 January 2011, p. 9-20
Keywords: Cultivar; Planting date; Plant density; Africa; Genotype-environment interactions; Canonical discriminant analysis
612. Smart approach for enhancing dyeing and functional finishing properties of cotton cellulose/polyamide-6 fabric blend/ N.A. Ibrahim ... [et al.]
Carbohydrate Polymers, v. 83, Issue 3, 30 January 2011, p. 1068-1074
Keywords: Polyamide/cotton blend; Modification; Basic dyeing; Pigment dyeing; Functional finishing
613. Synergetic effect of DC air plasma and cellulase enzyme treatment on the hydrophilicity of cotton fabric/ E. Nithya ... [et al.]
Carbohydrate Polymers, v. 83, Issue 4, 1 February 2011, p. 1652-1658
Keywords: Hydrophilicity; DC air plasma; Cellulase; Cotton cellulose
614. Transcriptome analysis reveals salt-stress-regulated biological processes and key pathways in roots of cotton (*Gossypium hirsutum* L.)/ Dongxia Yao ... [et al.]
Genomics, Volume 98, Issue 1, July 2011, p. 47-55
Keywords: Upland cotton; Salt stress; Root; Transcriptome map; Signal transduction pathways; Hormone

615. Urea phosphate/[beta]-cyclodextrin inclusion complex to enhance thermal behavior of cotton fabric/ A. Abou-Okeil, A. El-Shafie
Carbohydrate Polymers, v. 84, Issue 1, 11 February 2011, p. 593-598
Keywords: Beta-Cyclodextrin; Monochlorotriazinyl; Urea phosphate; Thermal behavior; Inclusion complex; Cotton fabric
616. Wireless tracking of cotton modules. Part 1: Automatic message triggering/ A.J. Sjolander ... [et al.]
Computers and Electronics in Agriculture, v. 75(1), 2011, p. 23-33
Keywords: Cotton; Fiber quality; Fiber-quality mapping; Precision agriculture; Wireless; Yield mapping; Profit mapping
617. Wireless tracking of cotton modules. Part 2: Automatic machine identification and system testing/ A.J. Sjolander...[et al.]
Computers and Electronics in Agriculture, v. 75(1), 2011, p. 34-43
Keywords: Cotton; Fiber quality; Fiber quality mapping; Precision agriculture; Wireless; Yield mapping; Profit mapping
618. ZnO/carboxymethyl chitosan bionano-composite to impart antibacterial and UV protection for cotton fabric/ A. El.Shafei, A. Abou-Okeil
Carbohydrate Polymers, v. 83, Issue 2, 10 January 2011, p. 920-925
Keywords: ZnO; Bionano-comopiste; O-carboxymethyl chitosan; Cotton fabric; UV; Antibacterial

KENAF (*HIBISCUS CANNABINUS*)

2006

TEEAL

619. Absolute configuration of (-)-3-hydroxy- α -calacorene/
Stipanovic-R-D. ... [et al.]
Phytochemistry, 2006, 67 (13), p. 1304-1308
Keywords: Biosynthesis; Chemical composition; Cotton; Kenaf;
Plant-composition; Sesquiterpenes
620. Hibiscus chlorotic ringspot virus p27 and its isoforms affect
symptom expression and potentiate virus movement in kenaf
(*Hibiscus cannabinus* L.)/ Zhou-T. .. [et al.]
Molecular Plant Microbe Interactions, 2006, 19 (9), p. 948-957
Keywords: Cell-walls; Codons epidermis; Gene-expression;
Green-fluorescent-protein; Kenaf leaves;
Movement-proteins; Mutants; Mutations;
Phenotypic-variation; plant-Pathogens; Plant-
proteins;. Plant-viruses. Protoplasts; Symptoms
transfection; Translation
621. Kenaf (*Hibiscus cannabinus* L.) core and rice hulls as components of
container media for growing *Pinus halepensis* M.
seedlings/Tsakaldimi-M.
Bioresource Technology, 2006, 97 (14), p. 1631-1639
Keywords: Bulk-density; Calci; Chemical-properties;
Container-grown-plants; Field-capacity; Growing-
media; Kenaf; Magnesium; Moisture-content;
Nitrogen
622. Registration of 'Whitten' kenaf/ Baldwin-B-S. ... [et al.]
Crop Science, 2006, 46 (2), p. 988-989
Keywords: Crop-yield; Disease-resistance; Flowering-date;
Fungal-diseases; Kenaf; Leaves; New-cultivars;
Plant-diseases; Plant-height; Plant-pathogenic-
fungi; Plant-Pathogens

2007

TEEAL

623. Effect of inoculation of pectinolytic mixed bacterial culture on improvement of ribbon retting of jute and kenaf/Banik-S.; Basak-M-K. Sil-S-C.
Journal of Natural Fibers, 2007, 4 (2), p. 33-50
Keywords: Bark; Cement; Cultures; Fibre-quality; Inoculum; Jute; Kenaf; Pollution; Polyethylene; Retting; Tanks; Urea; Yarns
624. Enzyme enhanced solid-state fermentation of kenaf core fiber for storage and pretreatment/ Murphy-P-T. ... [et al.]
Bioresource Technology, 2007, 98 (16), p. 3106-3111
Keywords: Carbohydrates; Cellulase; Cellulose; Enzyme-Activity; Enzymes; Fermentation; Hemicelluloses; Kenaf; Lactic-Acid; Organic-Acids; Ph; Pretreatment; Silage-Making; Storage
625. First report of *Fusarium verticillioides* on kenaf in South Africa/ Swart-W-J.; Tarekegn-G.
Plant Disease, 2007, 91 (1), p. 112
Keywords: Fungal-Diseases; Geographical-Distribution; Kenaf; New-Geographic-Records; Plant-Diseases; Plant-Pathogenic-Fungi; Plant-Pathogens
626. Interaction between agronomic and mechanical factors for fibre crops harvesting: Italian results - Note I. Kenaf and fibre sorghum/ Venturi-P. ... [et al.]
Journal of Natural Fibers, 2007, 4 (1), p. 63-79
Keywords: Crop-Density; Crop-Quality; Crop-Yield; Harvesting-Date; Kenaf; Yield-Components

2008

TEEAL

627. Breeding family/ Kantartzi-S. Roupakias-D-G.
Australian Journal of Botany, 2008, 56 (3), p. 241-245
**Keywords: Cotton; Genes; Germplasm; Gynoecium;
Hybridization; Hybrids; Kenaf; Okras; Ovaries;
Pollen; Seed-Development; Stigma**
628. Feasibility of intercropping kenaf with sorghum in a small-holder
farming system/ Raji-J-A
Journal of Sustainable Agriculture, 2008, 32 (2), p. 355-364
**Keywords: Crop-Yield; Fibres; Intercropping; Intercrops;
Kenaf; Retting; Small-Farms**
629. Surface topography of kenaf (*Hibiscus cannabinus*) sized paper/
Ashori-A. ... [et al.]
Bioresource Technology, 2008, 99 (2), p. 404-410
**Keywords: Chitosan; Kenaf; Paper; Physical-Properties; Pulp-
And-Paper-Industry; Starch; Sulfate-Pulping;
Surface-Roughness**

2009

ProQuest

630. Effects of different fertilizer application level on growth and physiology of *Hibiscus cannabinus* L. (Kenaf) planted on BRIS Soil/ Hazandy Abdul-Hamid ... [et al.]

Journal of Agricultural Science, Toronto: Jun 2009. Vol. 1, Iss. 1, p. 121-131

Keyword: **Hibiscus cannabinus; Fertilizer application; Growth; Thermoregulation; Plant physiology; Fertilizers; Fertilizing; Application rates; Effects**

2010

Science Direct

631. Cell wall ultrastructure, anatomy, lignin distribution, and chemical composition of Malaysian cultivated kenaf fiber/ H.P.S. Abdul Khalil ... [et al.]
Industrial Crops and Products, v. 31, Issue 1, 2010, p. 113-121
Keywords: Cell wall Ultrastructure; Anatomy; Lignin; Distribution; Fourier transform infrared; Spectroscopy

RAMIE (*BOEHMERIA NIVEA*)

2006

ProQuest

632. Mechanical behavior of cellulose microfibrils in tension wood, in relation with maturation stress generation/ Clair, B. ... [et al.]
Biophysical Journal, 2006, 91(3), p. 1128-1128-35

Keywords: Ramie; Fibres; Cellulose; Chemicophysical properties; Strength; Plant performance

2008

ProQuest

633. *In vitro* plant regeneration from seedling-derived explants of ramie [*boehmeria nivea* (L.) gaud]/ Wang, B. ... [et al.]
In Vitro Cellular & Developmental Biology, 2008, 44(2), p. 105-111
Keywords: Boehmeria nivea; Seedlings; In Vitro; Plant regeneration

2009

ProQuest

634. Automatic identification of ramie and cotton fibers using characteristics in longitudinal view, part I: Locating capture of fiber images/ Wang, R. W. ... [et al.]
Textile Research Journal, 2009, 79(14), p. 1251-1251-1259
Keyword: Textile; Fibres; Cotton; Ramie; Chemicophysical properties; Strength; Analysis
635. Automatic identification of ramie and cotton fibers using characteristics in longitudinal view, part II: Fiber stripes analysis/ Wang, R. W. ... [et al.]
Textile Research Journal, 2009, 79(17), p. 1547-1556
Keyword: Ramie; Cotton; Fibres; Characteristics; Analysis.
636. Retracted article: Transgenic ramie [*boehmeria nivea* (L.) gaud.]: Factors affecting the efficiency of agrobacterium tumefaciens-mediated transformation and regeneration/ Wang, B. ... [et al.]
Plant Cell Reports, 2009, 28(9), p. 1319-1327
Keyword: Ramie; Boehmeria nivea; Agrobacterium tumefaciens; Regeneration; Transgenic; Transformation.
637. Transgenic ramie [*boehmeria nivea* (L.) gaud.]: Factors affecting the efficiency of agrobacterium tumefaciens-mediated transformation and regeneration/ Wang, B. ... [et al.]
Plant Cell Reports, 2009, 28(11), p. 1767-1777
Keyword: Boehmeria nivea; Transgenic; Agrobacterium tumefaciens; Efficiency

2010

ProQuest

638. Heavy metal uptake and extraction potential of two *Bechmeria nivea* (L.) gaud. (ramie) varieties associated with chemical reagents/ Zhou, J. ... [et al.] *Pollution*, 2010, 211(1-4), p. 359-359-366
Keyword: Ramie; Bechmeria nivea; Varieties; Chemical; Heavy Metal; Extraction
639. Novel chemical degumming process for ramie bast fiber/ Fan, X. ... [et al.]
Textile Research Journal, 2010, 80(19), p. 2046-2046-2051
Keyword: Ramie; Fibres; Process; Chemical

Science Direct

640. Fast compositional analysis of ramie using near-infrared spectroscopy/ Wei Jiang ... [et al.]
Carbohydrate Polymers, v. 81, Issue 4, 2010, p. 937-941
Keywords: Ramie; Near-infrared; Chemical composition; Fast analysis

2011

ProQuest

641. Mechanical properties of a woven ramie fabric under multidimensional loadings/ Chen, F., Wang, G., Li, L., Cheng, H. *Textile Research Journal*, 2011, 81(12), P. 1226-1226-1233
Keyword: Ramie; Fabric; Multidimensional; Mechanical

YUTE (*CORCHORUS* SPP.)

2007

Science Direct

642. Blending of jute with different natural fibres/ Basu-G. Roy-A-N.
Journal of Natural Fibers, 2007, 4 (4), p. 13-29
Keywords: Jute; Fibre crops; Textile; Processing; Composition

2008

ProQuest

643. Preliminary genetic analysis of fibre traits and the use of new genomic SSRs for genetic diversity in jute / Reyazul R Mir ... [et al.]
Euphytica, Dordrecht: Jun 2008, v. 161, Iss. 3, p. 413-427
Keywords: Jute; Fibre crops; Genetics

Science Direct

644. Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study/ Ángel T. Martínez ... [et al.]
Phytochemistry, v. 69, Issue 16, November 2008, p. 2831-2843
Keywords: Agave sisalana; Cannabis sativa; Musa textilis; 2D NMR; HSQC; Lignin structure; Lignification Monolignols; Resinols; Etherified lignin; Milled-wood-lignin
645. Variations in chemical characteristics and pulpability within jute plant (*Corchorus capsularis*)/ M. Sarwar Jahan ... [et al.]
Industrial Crops and Products, v. 28, Issue 2, 2008, p. 199-205
Keywords: Jute; Core; Bark; Syringyl; Guaiacyl; Pulping; Bleaching; Pulp yield; Brightness

2009

ProQuest

646. Computational and experimental approach for developing jute ESTs from genomic clones/ Salim Ahmed . . . [et al.]
Australian Journal of Crop Science, Lismore: Nov 2009. Vol. 3, Iss. 6, p. 322-328
Keywords: Jute; Genomes; Genetic engineering; Analytical methods; Experimental trials
647. Development and characterization of large-scale simple sequence repeats in jute/ Reyazul R Mir ... [et al.]
Crop Science, Madison: Sep/Oct 2009, Vol. 49, Iss. 5, p. 1687-1694
Keyword: Jute; Farming systems; Characterization; Agricultural development; Seed characteristics; Large farms
648. Effect of FeSO₄ and pH on shoot regeneration from the cotyledonary explants of Tossa Jute/ K M K Huda ... [et al.]
Plant Omics, Lismore: Sep 2009, v. 2, Iss. 5, p. 190-196
Keyword: Jute; Cotyledons; pH; Shoots; FeSO; Effect
649. Regeneration and genetic transformation of Tossa Jute (*Corchorus olitorius* L.) /Mohammad Saiful Islam ... [et al.]
Australian Journal of Crop Science. Lismore: Sep 2009. Vol. 3, Iss. 5, p. 287-293
Keyword: Jute; Corchorus olitorius; Genetic transformation; Regeneration

Science Direct

Effect of bio-friendly conditioning agents on jute fibre spinning/ G. Basu, S.S. De, A.K. Samanta

Industrial Crops and Products, v. 29, Issues 2-3, 2009, p. 281-288

Keywords: Aminosilicone; Enzyme; Jute; Fibre conditioning agent; Mineral oil; Process performance; Vegetable oil; Yarn properties

TANAMAN SERAT LAINNYA

2006

Science Direct

650. Absolute configuration of (-)-3-hydroxy- α -calacorene/ Robert D. Stipanovic ... [et al.]
Phytochemistry, v. 67, Issue 13, July 2006, p. 1304-1308
Keywords: Heterotheca inuloides; Gossypium hirsutum; Hibiscus cannabinus; Malvaceae; Cotton; Kenaf; Biosynthesis; Sesquiterpene
651. Effects of lignin content on the properties of lignocellulose-based biocomposites/ F. Le Digabel, L. Avérous
Carbohydrate Polymers, v. 66, Issue 4, 2006, p. 537-545
Keywords: Biocomposite; Biodegradable; Lignocellulose fillers; Lignin extraction; Wheat straw
652. Properties of biocomposites based on lignocellulosic fillers/ Avérous, F. Le Digabel
Carbohydrate Polymers, v. 66, Issue 4, 2006, p. 480-493
Keywords: Biocomposite; Biodegradable; Lignocellulosic fillers; Mechanical properties

2007

Science Direct

653. Chemical composition of different morphological parts from 'Dwarf Cavendish' banana plant and their potential as a non-wood renewable source of
and Products, v. 26, Issue 2, 2007, p. 163-172

Keywords: **Musa acuminata;** **Cavendish;** **Chemical composition;** **Agricultural residues;** **Cellulose;** **Lignin;** **Starch**

2008

Science Direct

654. Biofibres and biocomposites/ Maya Jacob John, Sabu Thomas
Carbohydrate Polymers, v. 71, Issue 3, 2008, p. 343-364
Keywords: Biocomposite; Biofiber; Green composite; Textile; Hybrid
655. Biomass, organic carbon and mineral matter contents of abaca (*Musa textilis* Nee) at different stages of growth/ R.B. Armezin, F.M. Gabon
Industrial Crops and Products, v. 28, Issue 3, 2008, p. 340-345, ISSN 0926-6690
Keywords: Abaca; Musa textilis; Biomass; Carbon; Mineral content
656. Chemical composition of lipophilic extractives from sisal (*Agave sisalana*) fibers/ Ana Gutiérrez, Isabel M. Rodríguez, José C. del Río
Industrial Crops and Products, v. 28, Issue 1, July 2008, p. 81-87
Keywords: Agave sisalana; Ferulic acid esters; Lipids; Nonwood fibers; Pitch; Sisal
657. Effect of fibre volume fraction and mercerization on the properties of all-cellulose composites/ Chen Qin ... [et al.]
Carbohydrate Polymers, v. 71, Issue 3, 2008, p. 458-467
Keywords: All-cellulose composites; Fibre volume fraction; Mercerization; Mechanical properties
658. Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study/ Ángel T. Martínez ... [et al.]
Phytochemistry, v. 69, Issue 16, 2008, p. 2831-2843
Keywords: Agave sisalana; Cannabis sativa; Musa textilis; 2D NMR; HSQC; Lignin structure; Acetic acid esters; Coumaric acid esters; Lignification Monolignols; Resinols; Etherified lignin; Milled-wood-lignin

659. Preparation and characterization of methylcelluloses from some annual plant pulps/ Daiyong Ye ... [et al.]
Industrial Crops and Products, v. 26, Issue 1, 2007, p. 54-62
Keywords: Annual pulps; Iodomethane; Methylation; Mercerization; Methylcellulose
660. Rice straw fiber-reinforced high-density polyethylene composite: Effect of fiber type and loading/ Fei Yao [et al.]...
Industrial Crops and Products, v. 28, Issue 1, July 2008, p. 63-72
Keywords: Rice straw; Fiber-reinforced composites; Virgin; Recycled polyethylene; Fiber type; Fiber loading; Differential scanning calorimetry; X-ray Diffraction; Dynamic mechanical analysis
661. Rice straw pulp obtained by using various methods/ Alejandro Rodríguez ... [et al.]
Bioresource Technology, v. 99, Issue 8, 2008, p. 2881-2886
Keywords: Non-wood; Rice straw; Pulp; Kraft; Soda pulping
662. Use of high-boiling point organic solvents for pulping oil palm empty fruit bunches/ Alejandro Rodríguez ... [et al.]
Bioresource Technology, v. 99, Issue 6, 2008, p. 1743-1749
Keywords: Non-wood; Empty fruit bunches; Organosolv pulp; Paper

TEEAL

663. Bleaching of soda pulp of fibres of *Musa textilis* Nee (abaca) with peracetic acid/ Jimenez-L. ... [et al.]
Bioresource Technology, 2008, 99 (5), p. 1474-1480
Keywords: Musa textilis; Abaca; Plant fibres; Bleaching; Chemical pulp; Strength; Mechanical properties
664. Nutrient composition of abaca (*Musa textilis* Nee) at seedling, vegetative, and flagleaf stages of growth/ Armecin-R-B.
Journal of Natural Fibers, 2008, 5 (4), p. 331-346
Keywords: Musa textilis; Seedlings; Vegetative period; Development stages; Growth

2009

ProQuest

665. *Bacidia rosellizans*, a new lichen species from the taiga belt/ Stefan Ekman
The Lichenologist, Cambridge: Sep 2009, v. 41, Iss. 5, p. 481-487
Keywords: Roselle; Species; Boreal forests
666. Eco-fibers: rayon, modal, and tencel: environmental friends or foes?/ Ed Mass
Natural Life, Toronto: Jul/Aug 2009, p. 32-33
Keyword: Fibres; Synthetic fibres; Environmental factors

Science Direct

667. Bleaching *Miscanthus x giganteus* Acetosolv pulps with hydrogen peroxide/acetic acid. Part 1: Behaviour in aqueous alkaline media/ Juan José Villaverde ... [et al.]
Bioresource Technology, v. 100, Issue 20, 2009, p. 4731-4735
Keywords: Miscanthus giganteus; Acetosolv; Bleaching; Modelling; Chelating agents
668. Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil/ J.L. Guimarães ... [et al.]
Industrial Crops and Products, v. 30, Issue 3, 2009, p. 407-415
Keywords: Lignocellulosic fibers; Chemical composition; Thermal behavior; Crystallinity; Morphology
669. Semichemical pulping of *Miscanthus giganteus*: Effect of pulping conditions on some pulp and paper properties/ F. Marín ... [et al.]
Bioresource Technology, v. 100, Issue 17, 2009, p. 3933-3940
Keywords: Miscanthus giganteus; Semichemical pulping; Paper production fibers

670. Studies on the macromolecular components of nonwood available in Bangladesh/ M. Sarwar Jahan, Sung Phil Mun
Industrial Crops and Products, Volume 30, Issue 3, November 2009, p. 344-350
Keywords: Nonwood lignin; Syringyl; Beta-O-4 units; Nonwood cellulose; Crystallinity

2010

ProQuest

671. Understanding the variability of vegetable fibres: a case study of harakeke (*Phormium tenax*)/ Bronwyn J Lowe
Textile Research Journal, Princeton: Dec 2010, v. 80(20), p. 2158-2166
Keywords: Fibres; Phormium tenax; Genetic variation

Science Direct

672. Biocomposites from abaca strands and polypropylene. Part I: Evaluation of the tensile properties/ Fabiola Vilaseca ... [et al.]
Bioresource Technology, v. 101, Issue 1, 2010, p. 387-395
Keywords: Abaca; Physical properties; Polypropylene; Fibers; Composites; Interface; Injection; Evaluation
673. Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels. Chapter 2 - Structure, Ultrastructure, and Chemical Composition/ Feng Xu
Elsevier, Amsterdam, 2010, p. 9-47, ISBN 9780444532343
Keywords: Cereal crops; Straw; Byproducts; Biomaterials; Biofuels; Fibres; Chemical composition
674. Cereal. Chapter 4 - Hemicelluloses/ Jun-Li Ren, Run-Cang Sun
Elsevier, Amsterdam, 2010, p. 73-130, ISBN 9780444532343
Keywords: Cereal crops; Straw; Byproducts; Biomaterials; Biofuels; Fibres; Hemicelluloses
675. Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels. Chapter 5 - Cellulose/ Chuan-Fu Liu, Run-Cang Sun
Elsevier, Amsterdam, 2010, p. 131-167, ISBN 9780444532343
Keywords: Cereal crops; Straw; Byproducts; Biomaterials; Biofuels; Fibers; Cellulose

676. Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels. Chapter 6 - Lignin/ Fachuang Lu, John Ralph
Elsevier, Amsterdam, 2010, p. 169-207, ISBN 9780444532343
Keywords: Cereal crops; Straw; Byproducts; Biomaterials; Biofuels; Fibres; Lignin
677. Combination of alkaline and enzymatic treatments as a process for upgrading sisal paper-grade pulp to dissolving-grade pulp/ David Ibarra ... [et al.]
Bioresource Technology, v. 101, Issue 19, 2010, p. 7416-7423
Keywords: Alkaline extraction; Dissolving-grade pulp; Enzymatic treatment; Paper-grade pulp; Non-wood fibres
678. Cold sodium hydroxide/urea based pretreatment of bamboo for bioethanol production: Characterization of the cellulose rich fraction/ Ming-Fei Li ... [et al.]
Industrial Crops and Products, v. 32, Issue 3, 2010, p. 551-559
Keywords: Bamboo; Cellulose; Sodium hydroxide/urea
679. Lipophilic extractives from several nonwoody lignocellulosic crops (flax, hemp, sisal, abaca) and their fate during alkaline pulping and TCF/ECF bleaching/ Gisela Marques, José C. del Río, Ana Gutiérrez
Bioresource Technology, v. 101, Issue 1, 2010, p. 260-267
Keywords: Flax; Hemp; Abaca; Sisal; Fibres; Processing; Pitch; Lipophilic extractives; Paper pulp; Pulp; Nonwoody fibers
680. Use of *Hesperaloe funifera* for the production of paper and extraction of lignin for synthesis and fuel gases/ R. Sánchez ... [et al.] and *Bioenergy*, v. 34, Issue 10, 2010, p. 1471-1480
Keywords: Hesperaloe funifera; Pulp; Paper; Lignin; Pyrolysis gas; Fuel gas

2011

Science Direct

681. Cellulosic/synthetic fibre reinforced polymer hybrid composites: A review/ M. Jawaid, H.P.S. Abdul Khalil
Carbohydrate Polymers, v. 86, Issue 1, 2011, p. 1-18
Keywords: Hybrid composites; Cellulosic fibres; Synthetic fibres; Mechanical; Physical; Thermal
682. Durability of lignocellulosic fibers treated with vegetable oil-phenolic resin/
Polymers, Available online 29 September 2011
Keywords: Lignocellulosic; Transesterification; Biodegradation; Tensile strength; Vegetable oil
683. Green composites from sustainable cellulose nanofibrils: A review/ H.P.S. Abdul Khalil, A.
Polymers, Available online 31 August 2011
Keywords: Cellulose; Green composites; Cellulose nanocomposites; Cellulose nanofibrils
684. Mild peroxyformic acid fractionation of *Miscanthus giganteus* bark. Behaviour and structural characterization of lignin/ Juan José Villaverde ... [et al.]
Industrial Crops and Products, v. 35, Issue 1, 2012, p. 261-268
Keywords: Miscanthus giganteus; Peroxyformic acid; Fractionation; Lignin recovery; Lignin characterization
685. Structural characteristics and physical properties of lotus fibers obtained from *Nelumbo nucifera* petioles/ Ying Pan ... [et al.]
Carbohydrate Polymers, v. 85, Issue 1, 2011, p. 188-195
Keywords: Lotus petiole; Natural cellulose fiber; Lignin; Ultrastructure; Properties

686. Structure and properties of new natural cellulose fabrics from *Cordia dichotoma*/ J. Jayaramudu... [et al.]
Carbohydrate Polymers, v. 86, Issue 4, 2011, p. 1623-1629
Keywords: Cordia dichotoma fabrics; Chemical composition; Infrared spectroscopy; X-ray diffraction; Thermal properties; Mechanical properties
687. Value-adding to cellulosic ethanol: Lignin polymers/ William O.S. Doherty, Payam Mousavioun, Christopher M. Fellows
Industrial Crops and Products, v. 33, Issue 2, 2011, p. 259-276
Keywords: Lignocellulose materials; Lignin chemistry; Application

INDEX SUBJECT

- A
- ABA, 67, 71
 - ABACA, 140, 141, 144, 145
 - ABIOTIC STRESS, 73
 - ABOVEGROUND BIOMASS, 49
 - ABSORPTION, 57
 - ABUTILON THEOPHRASTI, 98
 - ACC OXIDASE, 69
 - ACC SYNTHASE, 69
 - ACCUMULATION, 64, 66, 92, 103
 - ACE INHIBITION, 82
 - ACETAMIPRID, 118
 - ACETIC ACID ESTERS, 140
 - ACETOGENIC BACTERIA, 106
 - ACETOSOLV, 142
 - ACETYL BROMIDE, 1
 - ACETYLATION, 1
 - ACETYLENE, 22
 - ACIBENZOLAR-S-METHYL, 64, 90
 - ACID TREATED, 84
 - ACRISOL, 20
 - ACRYLAMIDE, 94
 - ACTIVATED CARBON, 17, 81
 - ACTIVATED CARBON FIBER, 81
 - AD MODEL, 70
 - ADDITIVE, 70, 87
 - ADDITIVE GENETIC EFFECT, 70
 - ADDUCT, 94
 - ADHESION MOLECULE, 106
 - ADSORBENT, 69
 - ADSORPTION, 17, 59, 94, 100
 - AFLATOXIN CONTAMINATION, 45
 - AFRICA, 19, 23, 35, 36, 38, 42, 55, 66, 103, 108, 122
 - AGAVE SISALANA, 135, 140
 - AGB, 52
 - AGRICULTURAL, 6, 16, 19, 20, 23, 24, 27, 28, 29, 30, 32, 35, 36, 37, 38, 41, 42, 44, 45, 47, 48, 49, 51, 52, 53, 54, 56, 57, 59, 63, 66, 68, 69, 70, 71, 72, 74, 77, 78, 79, 80, 81, 83, 85, 88, 90, 96, 98, 100, 101, 103, 109, 111, 112, 114, 115, 117
 - AGRICULTURAL BY-PRODUCTS, 81
 - AGRICULTURAL CHEMICALS, 44
 - AGRICULTURAL DEVELOPMENT, 6, 23, 24, 136
 - AGRICULTURAL FRONTIER, 118
 - AGRICULTURAL MACHINERY, 32, 35, 36, 42, 45
 - AGRICULTURAL RESIDUE, 121
 - AGRICULTURAL RESIDUES, 139
 - AGRICULTURAL WASTES, 16, 20, 23, 27, 29
 - AGRICULTURE, 4, 6, 23, 29, 32, 33, 38, 41, 44, 45, 47, 50, 57, 60, 62, 70, 71, 74, 81, 123
 - AGROBACTERIUM TUMEFACIENS, 131
 - AGRONOMIC CHARACTERS, 2, 4, 6, 11, 27, 35, 39, 57
 - AIR GASIFICATION, 97
 - AIR PERMEABILITY, 100
 - AIR TEMPERATURE, 79
 - AIR-STAGED, 114
 - ALFISOILS, 118
 - ALGINATE, 108
 - ALKALINE EXTRACTION, 145
 - ALL-CELLULOSE COMPOSITES, 140
 - ALLELOPATHY, 18
 - ALLEY CROPPING, 41
 - ALPHA-AMYLASE, 109
 - ALPHA-DEMETHYLASE, 92
 - ALTERNATIVE AGRICULTURE, 99
 - AMINOSILICONE, 137
 - AMINO-TERMINATED, 70
 - ANALYSIS, 8, 15, 32, 48, 81, 82, 116, 131
 - ANALYTICAL METHODS, 1, 32, 40, 46, 99, 102, 136
 - ANATOMY, 128
 - ANIMAL WASTE DISPOSAL, 95
 - ANNUAL GRAZING, 58
 - ANNUAL PULPS, 141
 - ANODA CRISTATA, 43, 45
 - ANTAGONISM, 32, 75
 - ANTAGONIST, 121
 - ANTHERS, 53
 - ANTHOCYANIN, 72
 - ANTHONOMUS GRANDIS, 49, 110, 119
 - ANTHROPODS, 46
 - ANTIBACTERIAL, 51, 91, 97, 123

ANTIBACTERIAL ACTIVITY, 55, 89, 117
 ANTIBACTERIAL EFFICIENCY, 90
 ANTI-BACTERIAL FABRICS, 64
 ANTIBACTERIAL FINISHING, 106
 ANTIBACTERIAL FUNCTION, 111
 ANTIBACTERIAL PROPERTIES, 96
 ANTIMICROBIAL, 64, 82, 88, 92, 94, 99, 108
 ANTI-MICROBIAL, 100
 ANTIMICROBIAL ACTIVITY, 102, 108
 ANTIMICROBIAL FUNCTION, 120
 ANTIOXIDANT, 3, 15, 43, 65, 82, 111
 ANTIOXIDANT ENZYME ACTIVITY, 68
 ANTIOXIDANTS, 74
 ANTISTATIC FINISHING, 102
 APHIDACEAE, 61
 APHIS GOSSYPHII, 20, 33, 74, 76, 79, 106, 109, 111
 APOLYGUS LUCORUM, 94
 APPLICATION, 147
 APPLICATION RATES, 40, 80, 127
 APPROPRIATE TECHNOLOGY, 24
 ARACHIS HYPOGAEA, 61, 84, 100
 ARACHIS HYPOGAEA, 97
 ARID AREA, 112
 ARID CLIMATE, 73
 ARID ZONES, 30, 72
 ARTHOPODS, 60
 ARTIFICIAL NEURAL NETWORK, 100
 ASCORBATE, 111
 ASPERGILLUS FLAVUS, 45
 ASSESSMENT, 121
 ASYMMETRIC, 116
 ATMOSPHERIC IMPACTS, 46
 ATTACKS, 60
 ATTRIBUTES, 118
 AUSTRALIA, 33, 38, 55, 120
 AUTOMATIC IRRIGATION, 101
 AUTOMATION, 95
 AUXIN, 85
 AZO DYES, 100

B
 BACILLUS THURINGENSIS, 22
 BACILLUS THURINGIENSIS, 21, 49, 53, 54, 55, 60, 61, 68, 72, 79, 87, 88, 91, 96, 105, 107, 110, 117
 BACTERIA, 92
 BACTERIOSTATIC PROPERTIES, 96
 BACULOVIRIDAE, 25, 58
 BAHIAGRASS, 61
 BAMBOO, 145
 BARK, 125, 135
 BASIC DYEABLE COTTON, 55
 BASIC DYEING, 122
 BEAUVERIA BASSIANA, 69
 BECHMERIA NIVEA, 132
 BED MATERIAL, 102
 BEGOMOVIRUS, 104
 BEHAVIOR, 22
 BELONOLAIMUS LONGICAUDATUS, 44
 BEMISIA TABACI, 19, 20, 76, 84, 93, 118
 BENEFICIAL ORGANISMS, 33
 BENTONITE, 28
 BENZOPHENONE, 64
 BENZOPHENONETETRACARBOXYLIC DIANHYDRIDE, 120
 BENZOQUINONE REDUCTASE, 65
 BENZOYLPHENYLUREA, 54
 BEST MANAGEMENT PRACTICES, 81
 BETA-CYCLODEXTRIN, 102, 108, 120, 123
 BETA-O-4 UNITS, 143
 BINDING PROTEINS, 33
 BINOMIAL SAMPLING PLAN, 76
 BIOACTIVE PEPTIDES, 82
 BIOASSAY, 117
 BIOCHEMICAL PATHWAYS, 19
 BIOCIDAL, 92
 BIOCIDES, 88
 BIOCOMPOSITE, 138, 140
 BIOCONFINEMENT, 50
 BIOCONTROL, 121
 BIODEGRADABILITY, 7
 BIODEGRADABLE, 7, 112, 138
 BIODEGRADABLE POLYMER, 112
 BIODEGRADATION, 146
 BIODIESEL, 52
 BIODIESEL PROPERTIES, 112
 BIODIVERSITY, 4

BIOENGINEERING, 63
 BIOETHANOL, 49, 73
 BIOFIBER, 140
 BIOFIBERS, 94
 BIOFUEL, 17, 84, 91, 97
 BIOFUELS, 16, 17, 27, 144, 145
 BIOGAS, 17
 BIOLOGICAL CONTROL, 25, 33, 46, 49,
 69, 76, 119
 BIOLOGICAL TRAITS, 109
 BIOLOGY, 11, 28, 40, 60, 73, 78, 82, 86,
 93
 BIOMASS, 12, 16, 17, 37, 64, 65, 84, 86,
 89, 92, 94, 101, 110, 140
 BIOMASS LOGISTICS, 65
 BIOMATERIALS, 144, 145
 BIONANO-COMOPISTE, 123
 BIOPESTICIDES, 14
 BIO-POLISH, 87
 BIOPREP 3000L, 67
 BIOREDUCTION, 108
 BIOREMEDIATION, 34
 BIORESIDUAL, 84
 BIOSAFETY, 21, 50, 60
 BIOSCOURING, 50, 67, 92
 BIO-SCOURING, 93
 BIOSYNTHESIS, 5, 124, 138
 BIOTECHNOLOGY, 3, 5, 11, 23, 34, 35,
 43, 46, 72
 BIOTYPES, 20
 BISTRIFLURON, 54
 BLEACHING, 28, 34, 92, 93, 112, 135,
 141, 142
 BLENDS, 3, 52
 BOARD COMPOSITES, 16
 BOEHMERIA NIVEA, 130, 131
 BOLL DEVELOPMENT, 51
 BOLL SIZE, 82
 BOLL WEEVIL ERADICATION, 119
 BOLLGARD, 57, 96, 105, 107
 BOLLGARD II(R), 57
 BOLLS, 24
 BOLLWORMS, 95, 108
 BOREAL FORESTS, 142
 BOTTOM UP EFFECTS, 71
 BRANCH REMOVAL, 79
 BRASSINOSTEROIDS, 48, 92, 120
 BREEDING, 78
 BRIGHTNESS, 135
 BT COTTON, 19, 22, 24, 26, 27, 51, 56,
 60, 65, 68, 72, 77, 79, 82, 83, 96, 108,
 109, 118, 119
 BT RESISTANCE, 105
 BT TRANSGENIC COTTON, 51
 BTCA, 70
 BT-COTTON, 120
 BULK-DENSITY, 124
 BULKED SEGREGANT ANALYSIS, 119
 BUPROFEZIN, 115
 BURKINA FASO, 56, 88
 BUTANE TETRA, 121
 BYPRODUCTS, 27, 115, 144, 145

 C
 C/N RATIO, 66
 C80 CALORIMETER, 78
 CALCI, 124
 CALCIUM CARBIDE, 22
 CALIBRATION, 77
 CALLUS, 13
 CANDIDA IPOMOEAE, 39
 CANNABIS, 8, 10, 12, 14
 CANNABIS SATIVA, 8, 10, 11, 12, 13,
 14, 15, 16, 17, 135, 140
 CANONICAL DISCRIMINANT
 ANALYSIS, 122
 CANOPY, 32, 43, 52
 CANOPY REFLECTANCE, 49
 CANOPY SPECTRUM, 77
 CAPITAL ALLOCATIONA, 24
 CARBAMATES, 79
 CARBAMOYLETHYLATION, 112
 CARBOHYDRATE, 1, 2, 3, 5, 10, 67, 76,
 138
 CARBOHYDRATES, 104, 125
 CARBON, 59, 140
 CARBON DIOXIDE, 61
 CARBON MINERALIZATION, 50
 CARBON SEQUESTRATION, 73, 122
 CARBONDIOXIDE, 117
 CARBOXYLESTERASE, 74, 120
 CARBOXYLIC ACID, 121
 CARBOXYMETHYL DERIVATIVES,
 117
 CARDING, 8

CASPASE, 5
 CATALYST, 112
 CATALYTIC PYROLYSIS, 23
 CATALYTIC SUBUNIT, 119
 CATCH CROPS, 29
 CATHEPSIN, 89
 CATIONIC COTTON, 94
 CATIONIC HYPERBRANCHED, 102
 CATIONIZATION, 112
 CATIONIZED COTTON, 103, 121
 CAVENDISH, 139
 CELL DEATH, 5
 CELL MORPHOLOGY, 8
 CELL PLATES, 68
 CELL VACUOLATION, 68
 CELL WALL, 3, 82, 128
 CELL WALL HYDROLASES, 67
 CELL WALLS, 21, 49
 CELLOBIOSE, 86
 CELLULOSE, 69, 121, 122, 125
 CELLULOSE ENZYME, 87
 CELLULOSE, 5, 10, 11, 12, 13, 43, 50, 51, 64, 67, 69, 79, 82, 84, 92, 94, 112, 115, 117, 125, 129, 139, 144, 145, 146
 CELLULOSE ACETATE, 115
 CELLULOSE BIOSYNTHESIS, 119
 CELLULOSE CARBAMATE, 50
 CELLULOSE NANOCOMPOSITES, 146
 CELLULOSE NANOFIBRILS, 146
 CELLULOSE NANOWHISKERS, 121
 CELLULOSE SYNTHASE, 119
 CELLULOSIC FIBRES, 146
 CELL-WALLS, 124
 CEMENT, 125
 CENTRAL COMPOSITE DESIGN, 121
 CEREAL CROPS, 47, 144, 145
 CHALCONE, 104
 CHAR, 101
 CHARACTERISTICS, 131
 CHARACTERIZATION, 49, 66, 83, 97, 98, 136
 CHARGE, 94
 CHELATING AGENTS, 142
 CHEMICAL, 1, 4, 10, 12, 14, 26, 36, 42, 46, 50, 61, 68, 74, 102, 117, 124, 132, 140
 CHEMICAL COMPOSITION, 124, 132, 139, 142, 144, 147
 CHEMICAL CONTROL, 68
 CHEMICAL PROPERTIES, 12, 14, 42
 CHEMICAL PULP, 141
 CHEMICAL RESIDUES, 61
 CHEMICAL RESISTANCE, 36, 46
 CHEMICAL SOLUTION, 10
 CHEMICAL-PROPERTIES, 124
 CHEMICOPHYSICAL PROPERTIES, 1, 8, 10, 11, 13, 15, 16, 17, 26, 30, 37, 43, 44, 64, 129, 131
 CHEMISTRY, 2, 12, 13, 15, 72
 CHENOPODIUM FICIFOLIUM, 109
 CHICKPEA, 58
 CHINA, 10, 24, 28, 29, 30, 31, 48, 49, 52, 53, 54, 56, 68, 69, 70, 71, 72, 74, 77, 83
 CHIRAL NEMATIC PHASE, 121
 CHITINASE, 64, 115
 CHITINASES, 69
 CHITOSAN, 55, 91, 94, 97, 102, 110, 117, 126
 CHITOSAN DERIVATIVES, 117
 CHITOSAN FILM, 106
 CHLORFLUAZURON, 54
 CHLOROHEXIDIN DIACETATE, 108
 CHLOROPHYLL CONTENT, 100
 CHLOROPHYLL FLUORESCENCE, 76
 CHLORPYRIFOS, 69
 CHOLINESTERASE, 106
 CHROMOSOME, 33, 34, 53, 70
 CHROMOSOME BANDING, 33
 CHROMOSOME BINDING, 34
 CITRIC ACID TREATMENT, 3, 48
 CLASSIFICATION, 102
 CLAY, 58
 CLEANERS, 32
 CLIMATE, 57, 66
 CLIMATE CHANGE, 73
 CLIMATE MATCHING, 57
 CLIMATE WARMING, 74
 CLIMATIC CHANGE, 19
 CLIMATIC FACTORS, 29, 47
 CLIMEX, 57
 CLONE, 104
 CLONING, 42, 49, 65

CLOSTRIDIUM, 106
 CLOUD POINT, 84
 CLUSTERING, 4
 CO₂, 89, 93
 COASTAL, 34, 47, 48, 113
 COATING, 75
 COATS REDFERN METHOD, 101
 COCCINELLA SEPTEMPUNCTATA, 75
 CO-COMBUSTION, 114
 COCOS NUCIFERA, 84, 97
 COD FRACTIONS, 100
 CODONS EPIDERMIS, 124
 COLD TOLERANCE, 107
 COLD-HARDINESS, 119
 COLLEMBOLA, 118
 COMBINATION, 87
 COMBINED GRAFTING, 111
 COMBINED PROCESS, 112
 COMBINING ABILITY, 83, 116
 COMBUSTION CHARACTERISTICS, 102
 COMPACTION, 58
 COMPARATIVE GENOMICS, 106
 COMPATIBILIZATION, 2
 COMPETITION, 53, 73
 COMPOSITE, 15
 COMPOSITES, 11, 94, 144
 COMPOSITES BOARD, 11
 COMPOSITION, 10, 13, 134
 COMPOST, 20, 56
 COMPRESSION, 7
 COMPUTER IMAGE ANALYSIS, 4
 COMPUTER MODELING, 110
 CONDITIONAL ANALYSIS, 69
 CONIFERIN, 3
 CONSERVATION AGRICULTURE, 55, 108
 CONSERVATION TILLAGE, 34, 37, 60, 62, 73, 81
 CONTAINER-GROWN-PLANTS, 124
 CONTEMPORANEOUS MORTALITY, 84
 CONTROL EFFICACY, 89
 CONTROL METHODS, 44
 CONVENTIONAL TILLAGE, 28, 91
 CONYZA CANADENSIS, 84
 COPPER/ZINC SUPEROXIDE DISMUTASE, 49
 CORCHORUS OLITORIUS, 136
 CORDIA DICHOTOMA FABRICS, 147
 CORE, 135
 CORN, 86
 CORONA VIRIDAE, 16
 COST ANALYSIS, 24, 37
 COST AND BENEFIT ANALYSIS, 65
 COTTON, 3, 6, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 40, 41, 42, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 123, 124, 126, 131, 138
 COTTON ANTIBACTERIAL, 120
 COTTON APHID, 75, 76, 106
 COTTON BLEND, 87
 COTTON BOLL, 66
 COTTON BOLLWORM, 53, 79
 COTTON BREEDING, 104
 COTTON BURR, 115
 COTTON CELLULOSE, 122
 COTTON DYEING, 118
 COTTON FABRIC, 86, 88, 97, 102, 108, 112, 114, 117, 123
 COTTON FABRIC, 92
 COTTON FABRICS, 89, 99, 120
 COTTON FIBER, 75, 82, 92, 96, 112, 118, 120
 COTTON GENETICS, 104
 COTTON GIN WASTE, 81
 COTTON KNITS, 111
 COTTON LEAFWORM, 107
 COTTON PLANT, 100
 COTTON RAT, 81
 COTTON RESIDUE, 91
 COTTON SEED, 106, 112
 COTTON SEED EXTRACT, 106
 COTTON SEED OIL, 52
 COTTON STALK, 73, 96, 94, 97 102
 COTTON STUBBLE, 122
 COTTON SUBSIDIES, 109
 COTTON YARN, 114

COTTON YIELD, 86, 111
 COTTON2K, 77
 COTTON-BASED TEXTILES, 111
 COTTON-MAIZE, 56
 COTTONSEED, 92, 115
 COTTON-WICK METHOD, 86
 COTYLEDON SENESCENCE, 4
 COTYLEDONS, 136
 COUMARIC ACID ESTERS, 140
 COVER CROP, 50, 55, 91
 COVER CROPS, 18, 29, 44, 47, 60, 108
 CRACKING CLAY, 57, 58
 CROP COEFFICIENT, 85
 CROP COEFFICIENTS, 77, 96
 CROP DEVELOPMENT, 109
 CROP EVAPOTRANSPIRATION, 96
 CROP GROWTH ANALYSIS, 53
 CROP GROWTH PARAMETERS, 119
 CROP MANAGEMENT, 24, 70
 CROP MODEL, 92, 96
 CROP RESIDUES, 16
 CROP ROTATION, 44
 CROP WATER PRODUCTIVITY, 20, 35, 111
 CROP WATER USE, 96
 CROP-DENSITY, 125
 CROPPING SYSTEM, 42, 50, 58
 CROPPING SYSTEMS, 35, 36, 40, 41, 44, 45, 46, 47, 57, 60, 61, 62
 CROP-QUALITY, 125
 CROPS, 1, 2, 3, 4, 5, 7, 8, 10, 12, 15, 16, 17, 19, 26, 27, 31, 48, 51, 52, 53, 72, 73, 77, 78, 79, 82, 83, 84, 86, 90, 91, 92, 96, 99, 105, 128, 135, 137, 140
 CROP-YIELD, 124
 CROP-YIELD, 125, 126
 CROSSLINKING, 89
 CROSS-RESISTANCE, 118
 CRY GENES, 49
 CRY TOXIN, 117
 CRY TOXINS, 53, 72
 CRY1A, 33
 CRY1AC, 22, 72, 79, 82, 87, 88, 109
 CRY1AC GENE, 82
 CRY1AC PROTEIN, 79
 CRY1B, 110
 CRY2AB, 22, 72, 88, 96

CRYIA, 82
 CRYSTALLINITY, 67, 142, 143
 CUCUMBER, 93, 109
 CULTIVAR, 64, 122
 CULTIVAR VARIATION, 116
 CULTIVATION, 4, 14, 23, 32, 34, 38, 41, 73
 CULTIVATORS, 20, 41
 CULTURE SYSTEM, 68
 CULTURES, 125
 CURCUMA LONGA, 108
 CUTICLE, 5
 CYCLODEXTRIN, 75, 76, 100
 CYPERMETHRIN, 76
 CYSTEINE PROTEASE, 89
 CYTOCHROME OXIDASE, 104
 CYTOCHROME P450, 101, 106
 CYTOKININS, 26
 CYTOPLASMIC MALE STERILITY, 56
 CYTOSINE METHYLATION, 4

D

DAMAGE, 72
 DATA ANALYSIS, 23, 41
 DATA QUALITY, 81
 DATA WAREHOUSE, 81
 DC AIR PLASMA, 122
 DECISION MAKING, 70
 DECISION RULE, 50
 DECISION SUPPORT SYSTEM, 81
 DEEP TILLAGE, 20
 DEFICIENCY, 30
 DEFICIT IRRIGATION, 90, 103, 118
 DEGRADATION, 50
 DEGRADATION RATE, 84
 DELIGNIFICATION, 49, 91
 DELTA-12, 89
 DELTAMETHRIN, 106
 DEMAND, 30
 DEMOGRAPHIC DISTRIBUTION, 27
 DENITRIFICATION, 29, 73
 DENSITY, 8, 84
 DESIGN, 35, 36
 DETERMINATION, 1
 DETERMINING PARAMETERS, 95
 DETOXYFING ENZYMES, 105
 DEVELOPMENT, 22, 67, 75

DEVELOPMENT STAGES, 141
 DEVELOPMENT TIME, 67
 DEVELOPMENTAL STAGES, 24, 26, 28
 DEW RETTING, 8
 D-GENOME, 52, 88
 DIAMETER, 29
 DIAPAUSE, 28, 119
 DIAPAUSE TERMINATION, 104
 DICAMBA, 84
 DIESEL FUEL, 97
 DIESEL OIL, 84
 DIFFERENTIAL DISPLAY, 85
 DIFFERENTIAL GENE EXPRESSION,
 121
 DIFFERENTIAL SCANNING
 CALORIMETRY, 141
 DIFFRACTION, 141
 DIHYDRODILLAPIOLE, 113
 DILUTION, 64
 DIPAROPSIS WATERSI, 90
 DIPLOID, 88
 DIPLOIDY, 33, 46
 DIRIGENT PROTEIN, 78
 DISCRETE EVENT, 65
 DISEASE CONTROL, 6, 10, 22, 39, 46, 54
 DISEASE RESISTANCE, 21, 38, 39
 DISEASE-RESISTANCE, 124
 DISEASES CONTROL, 10, 15
 DISLOCATIONS, 8
 DISSEMINATION, 95
 DISSOLUTION, 67, 79
 DISSOLVING-GRADE PULP, 145
 DISTRIBUTION, 8, 48, 66, 128
 DISTRIBUTION ABILITY, 78
 DIVINYL ETHER SYNTHASE, 5
 DNA METHYLATION, 4, 91, 114
 DOMINANCE GENETIC EFFECT, 70
 DOUBLE FUNCTIONAL, 117
 DRAFT, 48
 DRAWBAR POWER, 48
 DRAWING, 8
 DRE-BINDING PROTEIN, 71
 DRINKING WATER, 69
 DRIP IRRIGATION, 52, 80, 85, 88, 103,
 119
 DROUGHT, 26, 27, 29, 32, 36, 41, 72
 DROUGHT ACCLIMATION, 76
 DROUGHT RESISTANCE, 41
 DROUGHT STRESS, 26, 27, 29, 32, 41,
 118
 DROUGHT TOLERANCE, 36, 70
 DRY FARMING, 30, 62, 72
 DRY MATTER, 66
 DRY SEASON, 109, 110
 DRYLAND, 58
 DSSAT, 52
 DUST, 3, 52
 DWARF1 GENE, 48
 DYEING, 97, 112
 DYNAMIC MECHANICAL ANALYSIS,
 141
 DYSDERCUS PERUVIANUS, 69, 78

 E
 E,E-10,12-HEXADECADIENAL, 95
 E-11-HEXADECENAL, 95
 EAG, 74, 95
 EAR MOTIF, 73
 EARIAS, 72, 90, 113
 EARIAS INSULANA, 72
 EARTHWORMS, 60
 EASY CARE, 87
 EASY-CARE FINISHING, 89
 ECO-FRIENDLY FINISHING, 86
 ECOLOGY, 7, 29, 53, 72
 ECONOMIC, 21, 23, 86, 90, 116
 ECONOMIC ANALYSIS, 21, 23
 EFFECT, 6, 8, 16, 17, 22, 36, 37, 51, 67,
 86, 87, 104, 118, 125, 136, 137
 EFFECTIVE MICROORGANISMS, 22
 EFFECTIVENESS, 68
 EFFECTS, 127
 EFFICIENCY, 6, 23, 24, 32, 37, 47, 48, 57,
 59, 73, 74, 78, 131
 EGGS, 74
 EISENIA FETIDA, 82
 EL NINO, 105
 ELAEIS GUINEENSIS, 84
 ELAEIS GUINEENSIS, 97
 ELECTRICAL CONDUCTIVITY, 16
 ELECTRICAL PROPERTIES, 16
 ELECTRONIC IMAGERY, 29
 ELECTRONIC NOSE, 103
 ELEVATED O₃, 118
 ELISA, 117

ELONGATION, 54
 EMISSION PULSE, 73
 EMPIRICAL MODELS, 112
 EMPTY FRUIT BUNCHES, 141
 EMULSIFIABLE FORMULATION, 69
 ENDOGENOUS HORMONE, 51
 ENDOPHYTES, 39
 ENDO-POLYGALACTURONASE, 49
 ENDOSULFAN, 79
 ENERGY, 17, 23, 32
 ENERGY CROP, 17
 ENRICHMENT, 5
 ENTOMOPATHOGENIC FUNGI, 76, 106
 ENTOMOPATHOGENIC FUNGUS, 75
 ENTOMOPHTHORALEAN FUNGUS, 75
 ENVIRONMENTAL FACTORS, 23, 24,
 37, 142
 ENVIRONMENTAL IMPACTS, 2, 4, 23,
 38
 ENZYMATIC ACTIVITY, 20
 ENZYMATIC HYDROLIZED, 13
 ENZYMATIC HYDROLYSIS, 5, 12, 15,
 16, 49
 ENZYMATIC RETTING, 12
 ENZYMATIC TREATMENT, 145
 ENZYME, 48, 64, 67, 137
 ENZYME ACTIVITIES, 113
 ENZYME ACTIVITY, 64, 96
 ENZYME INHIBITOR, 78
 ENZYME-ACTIVITY, 125
 ENZYMES, 37, 40, 65, 111, 125
 EPIC, 96
 EPIDEMIOLOGY, 25
 EPIGENETICS, 4
 EPISTATIC QTL, 95
 EPIZOOTIOLOGY, 58
 EPOXIDES, 28
 EQUILIBRIUM MOISTURE, 110
 ERADICATION, 19
 ERETMO CERUS MUNDUS, 93
 EROSION, 57, 62
 EROSION CONTROL, 57
 ESSENTIAL OILS, 16
 ESTERASE, 28, 113
 ESTERIFICATION, 50
 EST-SSR, 52, 88
 ETHANOL, 5, 106

ETHERIFIED LIGNIN, 135, 140
 ETHEROLENIC ACID, 5
 ETHYLCELLULOSE, 70
 ETHYLENE, 2, 22, 67, 69, 73, 85, 88
 ETHYLENEGLYCOL, 49
 ETHYLMALEIMIDE, 28
 EVALUATION, 144
 EVAPORATION, 112
 EVAPOTRANSPIRATION, 30, 80, 103,
 119
 EXO-POLYGALACTURONASE, 49
 EXPERIMENTAL TRIALS, 136
 EXPOLINEAR GROWTH EQUATION,
 53
 EXPRESSION, 48, 65
 EXPRESSION SPECIFICITY, 83
 EXTRACTION, 2, 5, 132
 EXTRACTS, 13, 42

F

F1 HYBRIDS, 83
 F2 HYBRIDS, 83
 FABRIC, 94, 133
 FAMILIARITY, 57
 FARM MANAGEMENT, 57
 FARM RESOURCES, 36
 FARMER FIELD SCHOOLS, 71
 FARMERS ASSOCIATION, 6
 FARMERS' EDUCATION, 71
 FARMING SYSTEM, 20, 58
 FARMING SYSTEMS, 19, 24, 32, 34, 45,
 62, 66, 136
 FARMYARD MANURE, 41
 FASHION INDUSTRY, 115
 FAST ANALYSIS, 132
 FATTY ACID, 4
 FATTY ACID DESATURASE 2, 89
 FATTY ACID METABOLISM, 89
 FATTY ACIDS, 26, 74
 FEEDING PREFERENCE, 20
 FEEDING PREFERENCES, 20
 FERMENTATION, 125
 FERRUM, 69
 FERTIGATION STRATEGY, 88
 FERTILIZATION, 7
 FERTILIZER APPLICATION, 127
 FERTILIZER EFFICIENCY, 83

FERTILIZING, 42, 61, 127
 FERULIC ACID ESTERS, 140
 FESO, 136
 FIBER CROPS, 116
 FIBER DEVELOPMENT, 65, 83
 FIBER DIAMETER, 118
 FIBER ELONGATION, 107
 FIBER INITIATION, 107
 FIBER LOADING, 141
 FIBER QUALITY, 53, 76, 85, 123
 FIBER QUALITY MAPPING, 123
 FIBER STRENGTH, 75
 FIBER TYPE, 141
 FIBER YIELD, 51
 FIBER-QUALITY MAPPING, 123
 FIBER-REINFORCED COMPOSITES,
 141
 FIBERS, 9, 10, 11, 12, 13, 144
 FIBRE CELLS, 8
 FIBRE COLOUR, 8
 FIBRE COMPOSITION, 8
 FIBRE CONDITIONING AGENT, 137
 FIBRE CROPS, 134, 135
 FIBRE LENGTH, 110
 FIBRE PROCESSING, 4
 FIBRE STRENGTH, 110
 FIBRE VOLUME FRACTION, 140
 FIBRE YIELD, 8
 FIBRE-QUALITY, 125
 FIBRES, 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12,
 13, 15, 16, 17, 28, 30, 31, 32, 34, 37,
 39, 43, 48, 54, 98, 126, 129, 131, 132,
 142, 144, 145
 FIELD LANDSCAPE, 118
 FIELD TRIAL, 100
 FIELD-CAPACITY, 124
 FINENESS, 118
 FINISHING, 82, 87, 88, 91, 94, 97
 FIRST IRRIGATION, 51
 FLAVONOIDS, 3
 FLAVONOL GLYCOSIDE, 72
 FLAX, 1, 2, 3, 4, 5, 6, 7, 48, 52, 96, 145
 FLAX SHIVE, 81
 FLAX/COTTON BLENDS, 3, 48
 FLOODING, 29
 FLOWER CHARACTERS, 87
 FLOWERING, 4, 24, 66
 FLOWERING TIME, 4
 FLOWERING-DATE, 124
 FLOWERS, 53
 FLUIDIZED BED, 102
 FLUORESCENT BRIGHTENING
 AGENT, 103
 FLUORESCENT PSEUDOMONAS, 100
 FLUORIDE REMOVAL, 69
 FORAGE LEGUMES, 18
 FORECASTING, 6
 FOREIGN FIBER, 102
 FOREST AREAS, 29
 FOUNDATION PARENT, 121
 FOURIER TRANSFORM INFRARED,
 128
 FRACTIONATION, 146
 FRUITING, 24
 FT-IR, 70
 FUEL BLEND, 84, 97
 FUEL CROPS, 16, 17
 FUEL ETHANOL, 86
 FUEL GAS, 145
 FUNCTIONAL FINISHING, 122
 FUNGAL DEFIBRATED, 10
 FUNGAL DISEASES, 15, 22
 FUNGAL POPULATION LEVELS, 95
 FUNGAL PRETREATMENT, 91
 FUNGAL-DISEASES, 124
 FUNGAL-DISEASES, 125
 FUNGI, 99
 FUNGUS, 75
 FURROW SEEDING, 115
 FUSARIUM, 3, 32, 39, 113
 FUSARIUM OXYSPORUM, 5, 21, 64, 90

G

GA 20-OXIDASE, 107
 GALACTAN, 5
 GALACTANASE, 3
 GALACTANS, 1, 3
 GAS EMISSION, 117
 GAS EXCHANGE, 93
 GC-EAD, 95
 GEMINIVIRUS, 104
 GENDER, 71
 GENE, 21, 24, 48, 49, 54, 63, 65
 GENE ACTION, 83

GENE EXPRESSION, 21, 24, 42, 55, 64,
 68, 82, 85, 111
 GENE FLOW, 50
 GENE MUTATION, 42
 GENE OVEREXPRESSION, 56
 GENE TAGGING, 65
 GENE-EXPRESSION, 124
 GENERAL LINEAR, 66
 GENES, 126
 GENETIC ENGINEERING, 11, 32, 33, 46,
 72, 101, 136
 GENETIC ENGINEERING, 60
 GENETIC IMPROVEMENT, 104
 GENETIC MAPPING, 83
 GENETIC MARKER, 5, 102, 113
 GENETIC MARKERS, 19, 33, 35, 38, 39
 GENETIC MODIFICATION, 23, 25
 GENETIC RELATIONSHIP, 52, 88
 GENETIC TRANSFORMATION, 136
 GENETIC VARIATION, 39, 83, 144
 GENETICALLY MODIFIED
 ORGANISMS, 60
 GENETICALLY MODIFIED VIRUSES,
 89
 GENETICS, 6, 135
 GENOMES, 33, 34, 136
 GENOTYPE, 12, 78, 107
 GENOTYPE-ENVIRONMENT
 INTERACTIONS, 122
 GEOGRAPHICAL INFORMATION
 SYSTEMS, 39, 66
 GEOGRAPHICAL-DISTRIBUTION, 125
 GERMINABILITY, 13
 GERMINATION, 107
 GERMPLASM, 38, 116, 126
 GHCYP51G1, 92
 GHYDRA1, 120
 GIBBERELIC ACID, 51
 GIBBERELLIN, 107
 GINNING, 3, 36, 52
 GIS, 19
 GLIOCLADIUM, 32
 GLOBAL CLIMATE CHANGE, 89
 GLUCANASE, 64
 GLUFOSINATE, 46, 84
 GLYCOSIDES, 25
 GLYPHOSATE, 36, 47, 53, 87, 94, 98
 GLYPOSATE, 99
 GOSSIPIER HOUZINGENIA, 52
 GOSSYPIUM, 19, 20, 21, 22, 23, 24, 25,
 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,
 36, 37, 38, 39, 40, 41, 42, 43, 44, 45,
 46, 47, 48, 49, 53, 54, 55, 56, 57, 58,
 60, 61, 62, 63, 65, 66, 82, 88, 93, 107
 GOSSYPIUM ARBOREUM, 37, 76, 90,
 101
 GOSSYPIUM BARBADENSE, 34, 39, 69,
 109, 110, 116
 GOSSYPIUM HIRSUTUM, 19, 20, 21, 22,
 23, 24, 25, 26, 27, 28, 29, 30, 31, 32,
 33, 34, 35, 36, 37, 38, 39, 40, 41, 42,
 43, 44, 45, 46, 47, 48, 49, 53, 54, 56,
 60, 61, 62, 63, 64, 65, 66, 67, 68, 69,
 71, 72, 74, 75, 76, 78, 83, 84, 85, 86,
 88, 89, 93, 94, 97, 98, 99, 100, 101,
 102, 104, 105, 107, 111, 112, 116,
 119, 138
 GOSSYPOL, 72, 78, 101, 106
 GOSSYPOL BIOSYNTHESIS, 78
 GRAFT, 70
 GRAFTING, 70, 120
 GRAIN QUALITY, 114
 GRAIN YIELD, 53
 GRAZING, 113
 GREECE, 23
 GREEDY ALGORITHM, 65
 GREEN COMPOSITE, 140
 GREEN COMPOSITES, 146
 GREEN-FLUORESCENT-PROTEIN, 124
 GREENHOUSE, 117
 GREENHOUSE GASES, 73
 GROWING-MEDIA, 124
 GROWTH, 13, 14, 22, 24, 26, 27, 31, 32,
 34, 37, 38, 40, 43, 44, 47, 49, 50, 53,
 67, 74, 75, 80, 82, 87, 89, 98, 107,
 117, 127, 141
 GROWTH CHARACTERISTICS, 80
 GROWTH CHARACTERS, 87
 GROWTH DELAY, 53
 GROWTH RATE, 27, 110
 GROWTH REGULATOR, 50
 GROWTH STAGE, 74, 75
 GUAIACYL, 135
 GUAYULE, 121

- GYNOECIUM, 126
 GYPSUM, 41
- H
- HACPV, 87
 HALPUSTERT, 58
 HAPLUSTERT, 57, 58
 HARVESTING, 8, 12, 17
 HARVESTING-DATE, 125
 HAYMAN ANALYSIS, 78
 HEAT, 2, 29
 HEAT STRESS, 55
 HEAT TOLERANCE, 46, 98
 HEATING, 12
 HEAVY METAL, 132
 HELIANTHUS ANNUUS, 84, 97
 HELICOVERPA ARMIGERA, 24, 25, 26,
 28, 29, 33, 41, 51, 53, 55, 56, 60, 72,
 74, 75, 79, 87, 88, 89, 90, 93, 96, 104,
 106, 109, 110, 113, 119
 HELICOVERPA ZEA, 28, 54
 HELIOCOVERPA, 93
 HELIOTHIS VIRESCENS, 54, 58
 HEMICELLULOSE, 117, 125
 HEMIGOSSYPOL, 78
 HEMP, 4, 8, 9, 10, 11, 12, 13, 14, 15, 16,
 17, 145
 HEMP CORE, 17
 HENICELLULOSES, 144
 HERBICIDE RESISTANCE, 84
 HERBICIDE TOLERANCE, 91
 HERBICIDES, 34
 HESPERALOE FUNIFERA, 145
 HETEROPTERAN, 25
 HETEROSIS, 24, 85, 121
 HETEROTHECA INULOIDES, 138
 HEXANE, 2
 HIBISCUS CANNABINUS, 124, 126, 127,
 138
 HOMO GALACTURONAN, 1
 HOMOGENEITY ESTIMATION
 MODELS, 52
 HOMOLOGY SEARCH, 71
 HOMOZYGOUS, 107
 HONEYBEES, 50
 HORMONE, 122
 HORMONES, 19
- HORSEWEED, 84
 HOST PATHOGEN RELATIONS, 25
 HOST PLANT RESISTANCE, 105
 HOST PLANTS, 22, 51, 87
 HOST PREFERENCE, 94
 HOSTS, 20
 HPLC, 10
 HSQC, 135, 140
 HYBRID, 140
 HYBRID COMPOSITES, 146
 HYBRID VIGOUR, 83
 HYBRIDIZATION, 28, 126
 HYBRIDS, 68, 126
 HYDROGEL, 110
 HYDROGEN PEROXIDE, 112
 HYDROLOGY, 40, 114
 HYDROLYZED PROTEIN, 15
 HYDROPHILICITY, 122
 HYDROPONIC CULTURE, 66
 HYDROTHERMAL TREATMENT, 8
 HYPERBRANCHED POLYMER, 70
 HYPERSENSITIVE REACTION, 56
 HYPERSENSITIVITY, 26
 HYPERSPECTRUM PARAMETERS, 52
- I
- IGRS, 117
 IMAGE PROCESSING, 100
 IMAGING, 95
 IMIDACLOPRID, 117
 IMMOBILIZATION, 108, 114
 IMPROVED SORGHUM, 109
 IN VITRO, 130
 INBREEDING DEPRESSION, 83
 INCLUSION COMPLEX, 108, 123
 INCORPORATION, 91
 INDIA, 25, 36, 53, 60, 71, 79, 115
 INDICATOR OF TOLERANCE, 66
 INDOLE ACETIC ACID, 88
 INDUCED EXPRESSION, 25
 INDUCED MUTATION, 64
 INDUCED RESISTANCE, 21
 INDUCTION, 24, 106
 INDUSTRY, 98
 INFERENCE MODELING, 57
 INFESTATION, 61
 INFORMATION TECHNOLOGIES, 74

INFRARED SPECTROSCOPY, 147
INHERITANCE, 90, 109
INHIBITOR, 109
INITIAL MOISTURE CONTENT, 110
INJURY OF ROOT, 54
INOCULUM, 125
INORGANIC NITROGEN, 29
INSECT CONTROL, 20
INSECT GROWTH REGULATORS, 115
INSECT PEST, 109
INSECT REPELLENT, 76
INSECT RESISTANCE, 54
INSECT VECTORS, 50
INSECT-ATTRACTION TECHNOLOGY,
105
INSECTICIDAL ACTIVITY, 89, 109
INSECTICIDAL EFFICACY, 72
INSECTICIDAL PEPTIDE, 78
INSECTICIDAL PROTEIN, 72, 82
INSECTICIDE, 74, 76, 90, 95
INSECTICIDE RESISTANCE, 74, 79
INSECTICIDE TOLERANCE, 105
INSECTICIDES, 19, 23, 24, 33, 43, 63, 75,
120
INTEGRATED CONTROL, 33, 46, 54, 84
INTEGRATED MANAGEMENT, 20
INTEGRATED PEST MANAGEMENT,
71, 120
INTEGRATED PLANT PRODUCTION,
24, 40
INTERACTION, 11, 72, 75
INTERCROPPING, 33, 67, 73, 126
INTERCROPS, 126
INTERFACE, 144
INTERFACIAL BONDING, 15
INTERPRETIVE KNOWLEDGE, 120
INTRAGUILD PREDATION, 75
INTRASPECIFIC POPULATION, 119
INVENTORY CONTROL, 65
INVERSION MODELS, 77
INVERTEBRATE, 53, 54, 55, 56, 58, 60,
61, 63, 109
IODINE, 89, 115
IODINE SOLUTION, 89
IODOMETHANE, 141
IONIC LIQUIDS, 79
IRREPLACEABLE MORTALITY, 84

IRRIGATED LAND, 19
IRRIGATION, 20, 30, 41, 48, 52, 59, 70,
73, 81, 90, 96, 112
IRRIGATION EFFICIENCY, 52
IRRIGATION MANAGEMENT, 70, 96
IRRIGATION REQUIREMENTS, 90
IRRIGATION SCHEDULING, 52, 59, 81
IRRIGATION WATER, 20
ISOTHERM, 17, 59
ISOTOPIC METHODS, 86
ITALY, 10

J

JASSID, 113
JUTE, 125, 134, 135, 136, 137
JUVENILE HORMONES, 28

K

KAOLIN, 61
KAWABATA EVALUATION SYSTEM,
67
KENAF, 124, 125, 126, 127, 138
KENAF LEAVES, 124
KEY FACTOR, 84
KINETICS, 17, 50, 96, 97
KNAPSACK, 65
KRAFT, 141

L

LABORATORY ANIMAL, 81
LACTIC-ACID, 125
LAND DEGRADATION, 21
LAND SUITABILITY, 62
LAND USE, 53
LANDSCAPE EFFECTS, 91
LANDSCAPING, 45
LARGE FARMS, 136
LARVAE, 26, 41
LASER INDUCED, 23
LAST IRRIGATION, 51
LEA D113, 71
LEACHING, 23
LEAF, 20, 38, 49, 57, 67, 69, 70, 72, 73,
75, 79, 82
LEAF ABSCISSION, 67, 69
LEAF ANATOMY, 87

LEAF AREA INDEX, 73
 LEAF AREA, 49, 57, 101
 LEAF AREA INDEX, 49
 LEAF CARBOHYDRATES, 20
 LEAF CURLS, 38
 LEAF EPIDERMAL CHARACTERS, 87
 LEAF NITROGEN CONCENTRATION, 75
 LEAF PIGMENT, 20
 LEAF POPULATION, 100
 LEAF SENESCENCE, 79
 LEAF WATER POTENTIAL, 93
 LEAFWORM, 117
 LEAVES, 26, 27, 31, 35, 124
 LECANICILLIUM ATTENUAUM, 76
 LECANICILLIUM LONGISPORUM, 106
 LEGUME STUBBLE, 122
 LEGUMES, 86
 LENGTH OF SEASON, 80
 LEPIDOPTERA, 22, 26, 29, 51, 54, 74, 75, 87, 90, 93, 96, 105, 107
 LIFE TABLE PARAMETERS, 93
 LIFE TABLES, 84
 LIGAND EXCHANGE MECHANISM, 69
 LIGHT, 73
 LIGNIFICATION MONOLIGNOLS, 135, 140
 LIGNIN, 3, 13, 73, 86, 128, 139, 145, 146
 LIGNIN CHARACTERIZATION, 146
 LIGNIN CHEMISTRY, 147
 LIGNIN EXTRACTION, 138
 LIGNIN RECOVERY, 146
 LIGNIN STRUCTURE, 135, 140
 LIGNINS, 12
 LIGNOCELLULOSE, 16, 17, 49
 LIGNOCELLULOSE FILLERS, 138
 LIGNOCELLULOSE MATERIALS, 147
 LIGNOCELLULOSIC, 146
 LIGNOCELLULOSIC FIBERS, 138, 142
 LIGON LINTLESS, 107
 LIMONENE, 75
 LINACEAE, 5
 LINEAR GROWTH, 77
 LINGO-CELLULOSIC FIBER, 121
 LINKAGE MAP, 72
 LINOLEIC ACID, 89
 LINSEED, 1, 7
 LINT, 44, 67
 LINT QUALITY, 87
 LINT YIELD, 49, 53, 86
 LINUM USITATISSIMUM, 1, 2, 3, 5, 6, 7
 LIPASE, 52
 LIPIDS, 5, 89, 140
 LIPOPHILIC EXTRACTIVES, 145
 LIPOXYGENASE, 5, 56
 LIPOXYGENASE PATHWAY, 5
 LIVELIHOOD, 118
 LOTUS PETIOLE, 146
 LOW DENSITY, 116
 LOW TEMPERATURE, 96
 LOW-DENSITY POLYETHYLENE, 112
 LOW-MOLECULAR-WEIGHT COMPONENTS, 56
 LYGUS HESPERUS, 39

M
 MACHINE PERFORMANCE, 42
 MACHINE VISION, 102
 MACROECONOMY, 24
 MACROFAUNA, 55
 MACRONUTRIENTS, 28, 58
 MAGNESIUM, 124
 MAGNESIUM CHELATASE MARKER, 104
 MAGNET, 105
 MAHONIA NAPAULENSIS, 77
 MAINTENANCE, 14
 MAIZE, 108
 MALATHION, 119
 MALI, 50, 103, 109
 MALVACEAE, 42, 49, 72, 78, 138
 MANAGEMENT ZONES, 76
 MANURE, 91
 MARGINAL LAND, 19
 MATURATION PERIOD, 92
 MATURITY, 118
 MCT-[BETA]-CD, 76
 MEALYBUG, 81
 MEASLES VACCINE, 81
 MEASUREMENT, 85
 MECHANICAL, 2, 15, 129, 133, 146
 MECHANICAL PROPERTIES, 138, 140, 141, 147
 MECHANISMS, 105
 MEDICAL, 94

MEDIUM EFFECT, 84
 MELOIDOGYNE INCOGNITA, 37, 42,
 44, 62, 85
 MELTING, 59
 MEPIQUAT, 36, 40
 MEPIQUAT CHLORIDE, 86, 99
 MERCERIZATION, 140, 141
 METABOLIC RESISTANCE, 120
 METABOLISM, 29
 METAL OXIDES, 106
 METAL SALTS, 111
 METARHIZIUM ANISOPLIAE, 69
 METHANOL, 26, 52
 METHYL JASMONATE, 56
 METHYLATION, 1, 114, 141
 METHYLCELLULOSE, 141
 METHYLCYCLOPROPENE, 69
 MICRO RNAS, 71
 MICROARRAY, 119
 MICROBIAL BIOMASS, 73
 MICROBIAL CARBON, 50
 MICROBIAL COMMUNITY, 73, 113
 MICROBIAL CONTROL, 69, 106
 MICROBIAL PROPERTIES, 12, 41
 MICROCAPSULE, 70
 MICROCRYSTALLINE CELLULOSE,
 121
 MICROIRRIGATION, 20
 MICRONAIRE, 110
 MICRONUTRIENTS NITROGEN, 30
 MICROORGANISM, 22
 MICROPARTICLE, 110
 MICROPLATE ASSAY, 113
 MICROPLITIS CROCEIPES, 93
 MICROPLITIS MEDIATOR, 93
 MICROSATELLITE, 5, 76
 MICROSATELLITES, 83
 MICROSCOPY, 8, 107
 MICROWAVE, 67, 91
 MILLED-WOOD-LIGNIN, 135, 140
 MINERAL CONTENT, 140
 MINERAL FERTILIZER, 22
 MINERAL NUTRITION, 84
 MINERAL OIL, 137
 MINERALIZED C, 73
 MINERALIZED N, 73
 MINIMUM TILL, 86
 MINIMUM TILLAGE, 114, 122
 MIRID, 77, 83
 MISCANTHUS GIGANTEUS, 142, 146
 MISSISSIPPI, 39
 MIXED MODELS, 66
 MIXING CHARACTERISTICS, 102
 MOCO COTTON, 78
 MODEL, 55, 77
 MODELING, 49
 MODELLING, 13, 142
 MODELS, 25
 MODIFICATION, 82, 114, 122
 MODIFICATION OF CHITOSAN, 102
 MODULES, 65
 MOISTURE ABSORPTION, 110
 MOISTURE CONTENT, 12, 27, 44, 45, 59
 MOISTURE-CONTENT, 124
 MOLECULAR BIOLOGY, 87
 MOLECULAR GENETICS, 42
 MOLECULAR MECHANISM, 85
 MOLECULAR TECHNOLOGY, 113
 MOLECULAR WEIGHT, 67
 MOLECULAR WEIGHT
 DISTRIBUTION, 84
 MONOCHLOROTRIAZINE-[BETA]-CD,
 111
 MONOCHLOROTRIAZINYL, 123
 MONOCHLOROTRIAZINYL
 CYCLODEXTRIN, 75
 MONOGENIC RESISTANCE, 118
 MORPHOLOGY, 142
 MOTE, 52
 MOULDING, 7, 16
 MOVEMENT, 39, 46
 MOVEMENT-PROTEINS, 124
 MULCH TILLAGE, 91
 MULCHED DRIP IRRIGATION, 88
 MULCHES, 47
 MULTIDIMENSIONAL, 133
 MULTIFUNCTIONAL FINISH, 55
 MULTISPECTRAL, 95
 MUNGBEAN, 94
 MUSA ACUMINATE, 139
 MUSA TEXTILIS, 135, 140, 141
 MUTANTS, 124
 MUTATIONS, 124

N

N FERTILIZER RATE, 49
N RHIZODEPOSITION, 86
NANOMATERIALS, 121
NANOPARTICLES, 100, 108
NANORODS, 104
NANOTECHNOLOGY, 99
NANOTIO₂, 121
NATURAL CELLULOSE FIBER, 146
NATURAL DYEING, 77
NATURAL DYES, 111
NATURAL ENEMIES, 25, 27, 33
NATURAL REFUGIA, 56
NATURAL ZEOLITE, 23
NEAR-INFRARED, 132
NEMATICIDES, 37
NEMATODES, 39, 44, 46, 62
NEONICOTINOIDS, 118
NEOZYGITES FRESENI, 75
NET RETURNS, 86
NETWORK, 95
NEUROHORMONAL CONTROL, 28
NEUROSECRETORY CELL, 28
NEW-CULTIVARS, 124
NEW-GEOGRAPHIC-RECORDS, 125
N-FERTILIZER, 116
N-HALAMINE, 92
NIGHT TEMPERATURE, 104
NITRIC OXIDE, 74
NITRIFICATION INHIBITOR, 22
NITROGEN, 1, 29, 37, 40, 42, 43, 50, 54,
57, 61, 64, 68, 73, 74, 84, 86, 93, 103,
120, 124
NITROGEN ACCUMULATION, 64
NITROGEN CONTENT, 50
NITROGEN FERTILIZATION, 29
NITROGEN FERTILIZERS, 42, 61, 105
NITROGEN METABOLISM, 54
NITROGEN SEQUESTRATION, 73
NMR SPECTROSCOPY, 13
NO TILLAGE, 55
NOCTUIDAE, 37
NOISE ABSORPTION, 81
NON-ISOTHERMAL KINETICS, 101
NON-PHOTOCHEMICAL QUENCHING,
100
NONTARGET ARTHROPODS, 91
NON-WOOD, 17, 49, 141

NONWOOD CELLULOSE, 143
NONWOOD FIBERS, 140, 145
NONWOOD LIGNIN, 143
NON-WOOD RESOURCES, 17
NONWOVEN, 3, 48, 81
NONWOVEN MATS, 3, 48
NO-TILL, 58
NO-TILLAGE, 91
NOVOZYM 435, 52
NOX, 114
NUCLEAR LOCALIZATION, 73
NUCLEAR RUN-ON, 55
NUCLEASE, 5
NUCLEOLAR VACUOLES, 68
NUCLEOPOLYHEDROVIRUS, 25, 58, 89
NUCLEOTIDE SEQUENCE, 33
NUTRIENT, 22, 58, 71
NUTRIENT STRATIFICATION, 58
NUTRIENT UPTAKE, 22, 105
NUTRIENT USE EFFICIENCY, 105
NUTRIENTS, 103
NUTRITIONAL STATUS, 56
NUTSEDGE, 46

O

OBTUSIFOLIOL, 92
O-CARBOXYMETHYL CHITOSAN, 123
OIL CONTENT, 92
OIL METHYL ESTERS, 112
OIL YIELDS, 7
OILS, 28
OKRAS, 126
OLAP, 81
OLEIC ACID, 89
OMETHOATE, 74
ON-FARM STUDY, 50
OPEN-TOP CHAMBER, 118
OPTICAL SENSOR, 70
OPTIMIZATION, 3, 5, 65
ORDER LOGIT, 74
ORGANIC CARBON, 45, 50
ORGANIC COTTON, 115
ORGANIC MATERIALS, 22
ORGANIC MATTER, 103
ORGANIC-ACIDS, 125
ORGANOPHOSPHATE, 75
ORGANOPHOSPHATES, 79

ORGANOSOLV COOKING, 17
 ORGANOSOLV PULP, 141
 ORYZA SATIVA, 20, 23
 OSTRINIA FURNACALIS, 22
 OVARIES, 126
 OVEREXPRESSION, 56, 74
 OVER-WINTERING PREPAREDNESS,
 51
 OVIPOSITION, 19, 26, 45, 105
 OVIPOSITION DETERRENTS, 26, 74
 OXIDATION, 26
 OXIDATIVE COUPLING, 78
 OXIDATIVE STABILITY, 4
 OXIDATIVE STRESS, 74, 111
 OXIDIZED COTTON FIBER, 70
 OXYLIPINS, 5
 OZONE, 46, 87
 OZONE OXIDATION, 100

P

P450 REDUCTASE, 101
 PAECILOMYCES, 90
 PAIRED SOWING, 57
 PAKISTAN, 38, 75, 79
 PAKISTANI COAL, 101
 PALPITA INDICA, 54, 95
 PAPER, 49, 126, 141, 145
 PAPER PRODUCTION FIBERS, 142
 PAPER PULP, 145
 PAPER-GRADE PULP, 145
 PAPERMAKING ABILITY, 17
 PARASITISM, 84
 PARASITISM RATE, 93
 PARASITIDS, 33
 PARTIAL HYDROGENATION, 112
 PARTIAL ROOTZONE, 112
 PATHOGENECITY, 20
 PATHOGENESIS, 21
 PATHOGENICITY, 32
 PATHOGENS, 6, 124
 PATHOTYPES, 89
 PCR, 64, 94
 PEANUTS, 60
 PECAN, 41
 PECTIN, 3, 26, 49, 50
 PECTINASE, 50
 PECTINASE ENZYME, 92

PECTINS, 1
 PELLET, 27
 PENDIMETHALIN, 43
 PENICILLIUM CHRYSOGENUM, 21
 PENMAN-MONTEITH, 52
 PEPTIDES, 25
 PERACETIC ACID, 92, 93
 PERENNIALITY, 66
 PERIODATE OXIDATION, 114
 PERMANENT BEDS, 57, 58, 114
 PEROXIDASE, 64, 78, 111
 PEROXIDATIVE COUPLING, 42
 PEROXYFORMIC ACID, 146
 PERSISTENCE, 25, 117
 PEST, 19, 20, 21, 22, 24, 25, 28, 33, 39, 41,
 43, 45, 46, 54, 60, 61, 63, 72, 81
 PEST CONTROL, 25, 33, 39, 43, 45, 54,
 60, 61, 63, 72
 PEST INSECT, 25
 PEST INSECTS, 19, 21, 24, 25, 28, 39, 41,
 46
 PEST INSECTS RESISTANCE, 101
 PEST MANAGEMENT, 20, 60, 120
 PEST RESISTANCE, 22
 PESTICIDE, 19, 24, 33, 57, 64, 74, 75, 81
 PESTICIDE DEGRADATION, 64
 PESTICIDES, 23, 37, 71
 PESTS OF PLANTS, 25, 27, 33, 34, 45,
 60, 61
 PH, 94, 103, 136
 PH, 125
 PHANEROCHAETE
 CHRYSOSPORIUM, 73, 86, 91
 PHASEOLUS VULGARIS, 53
 PHENOBARBITAL, 106
 PHENOLICS, 4, 111
 PHENOLOGICAL PHASES, 74
 PHENOLOGY, 13, 79, 98
 PHENOTYPE, 42, 107
 PHENOTYPIC-VARIATION, 124
 PHENYLALANINE AMMONIA LYASE,
 64
 PHORMIUM TENAX, 144
 PHOSPHOLIPIDS, 109
 PHOSPHORUS, 26, 27, 84, 91
 PHOSPHORUS FERTILIZERS, 61
 PHOTOACTIVE, 120

PHOTOCHEMICAL REFLECTANCE
 INDEX, 100
 PHOTOPERIOD, 13
 PHOTOSYNTHESIS, 20, 55, 76, 83, 87
 PHOTOSYNTHETIC ACTIVE
 RADIATION, 73
 PHOTOSYNTHETIC RATE, 70, 79
 PHYSICAL, 146
 PHYSICAL LABOUR, 71
 PHYSICAL PROPERTIES, 2, 67, 112,
 126, 144
 PHYSICOCHEMICAL PROPERTIES, 67
 PHYSIOLOGICAL DAY, 67
 PHYSIOLOGICAL TIME, 79
 PHYTOALEXIN, 72
 PHYTOPATHOLOGY, 25
 PHYTOPLASMA, 10
 PHYTOSTEROLS, 48, 92, 120
 PICHIA PASTORIS, 65
 PICKING, 42
 PIGEONPEA, 105
 PIGMENT DYEING, 122
 PILOT FARMS, 24
 PINUS ELLIOTTII, 23
 PIPERONYL BUTOXIDE, 113
 PISUM SATIVUM, 68, 86
 PITCH, 140, 145
 PK, 94
 PLAIN SOIL, 34, 47, 113
 PLANT ARCHITECTURE, 95
 PLANT BREEDING, 14
 PLANT CHARACTERS, 75
 PLANT COMPETITION, 41, 45, 46, 62
 PLANT DENSITY, 43, 105, 122
 PLANT DISEASES, 6, 10, 32, 38, 39, 46,
 54, 60, 102
 PLANT FIBRES, 11, 14, 141
 PLANT GROWTH, 51
 PLANT GROWTH PROMOTER, 64
 PLANT GROWTH SUBSTANCES, 63
 PLANT HEIGHT, 57
 PLANT HORMONE, 22
 PLANT MAPPING, 109
 PLANT MORPHOLOGY, 40
 PLANT NEMATODES, 33
 PLANT PERFORMANCE, 53, 61, 62, 129
 PLANT POPULATION, 1, 12, 31, 34, 40,
 43
 PLANT POPULATION DENSITY, 99
 PLANT PRODUCTION, 41
 PLANT REGENERATION, 13, 28, 39,
 130
 PLANT RESISTANCE, 27, 33, 34, 42, 43,
 44, 46, 53, 60, 61, 62, 63, 113
 PLANT RESPONSE, 2, 6, 30, 32, 101
 PLANT RESPONSES, 29, 30, 33, 40, 61,
 62, 66
 PLANT SELECTION, 36, 44
 PLANT YIELD, 116
 PLANTATION, 21, 24, 45
 PLANT-AVAILABLE NUTRIENTS, 58
 PLANT-COMPOSITION, 124
 PLANT-DISEASES, 124
 PLANT-DISEASES, 125
 PLANT-HEIGHT, 124
 PLANTING DATE, 31, 36, 122
 PLANTING POPULATION, 111
 PLANT-PATHOGENIC-FUNGI, 124
 PLANT-PATHOGENIC-FUNGI, 125
 PLANT-PATHOGENS, 124, 125
 PLANT-PROTEINS, 124
 PLANT-VIRUSES, 124
 PLANT-WATER RELATIONS, 118
 PLASTIC FILM, 23
 PLASTIC MULCHING, 51, 86
 PLOEM, 1
 PLOUGHING FREQUENCY, 56
 POLARIZED LIGHT MICROSCOPY, 8
 POLLEN, 53, 126
 POLLEN DISPERSAL, 50
 POLLEN GERMINATION, 87
 POLLEN TRAPS, 50
 POLLUTION, 29, 125
 POLY (N-VINYL-2-PYRROLIDONE), 89
 POLY(HEXAMETHYLENE
 BIGUANIDE), 51
 POLYAMIDE/COTTON BLEND, 122
 POLYAMIDOAMINE, 102
 POLYCAPROLACTONE, 2
 POLYESTER, 102
 POLYESTER BLEND, 102
 POLYETHYLENE, 125
 POLYETHYLENE GLYCOL, 94
 POLYGALACTURONASE, 43
 POLYHYDROXYBUTYRATE, 7
 POLYMER, 2, 7

POLYMER MATRIX COMPOSITES, 2
 POLYMERIC BINDER, 75
 POLYMORPHISM, 114
 POLYPHAGO TARSONEMUS, 20
 POLYPHENOL OXIDASE, 64
 POLYPROPYLENE, 144
 POLYSACCHARIDES, 5, 95
 POLYUNSATURATED, 89
 POPULATION, 25, 41, 42
 POPULATION CONSUMPTION, 93
 POPULATION DYNAMICS, 25, 41, 110
 POST-GERMINATION, 4
 POSTHARVEST HANDLING, 12, 35, 36, 45
 POST-TRANSCRIPTIONAL GENE, 71
 POTASSIUM, 2, 30, 66, 78, 84, 86, 88, 120
 POTASSIUM FERTILIZER, 105
 POTENTIATION, 75
 POTENTIOMETRIC, 94
 POULTRY LITTER, 91, 95
 POWDERY MILDEW, 106
 PRALLETHRIN, 76
 PRECIPITATION, 20, 35
 PRECISION AGRICULTURE, 48, 66, 70, 92, 103, 123
 PRECISION FARMING, 74
 PRECOCITY, 19
 PREDATION, 75, 84
 PREDATORS, 21, 25, 45, 113
 PREDATORY INSECTS, 33
 PREDICTION, 57, 62, 100
 PREFERRED ORIENTATION, 67
 PRE-MORDANTING, 111
 PRENYLTRANSFERASE, 111
 PRETREATMENT, 5, 73, 86, 93, 125
 PROCESS, 132
 PROCESS PERFORMANCE, 137
 PROCESSES, 2
 PROCESSING, 1, 2, 3, 4, 6, 8, 9, 10, 11, 13, 17, 27, 34, 37, 40, 59, 134, 145
 PRODUCTION, 4, 7, 11, 21, 32, 34, 35, 40, 43, 44
 PRODUCTION POSSIBILITIES, 116
 PRODUCTION SYSTEMS, 45
 PRODUCTIVITY, 19, 35, 38, 40, 41, 44, 45, 61, 62, 70

PROFIT MAPPING, 123
 PROFITABILITY, 48
 PROMOTER ANALYSIS, 73, 119
 PROPERTIES, 146
 PROPYLAEA JAPONICA, 21
 PROTEASES, 15
 PROTECTION AGAINST, 107
 PROTECTIVE CLOTHING MATERIAL, 64
 PROTEIN CONTENT, 92
 PROTEIN ISOLATE, 12
 PROTEIN ISOLATES, 15
 PROTEIN PHOSPHORYLATION, 104
 PROTEIN PURIFICATION, 106
 PROTEINS, 6
 PROTEOLYTIC ENZYME, 78
 PROTONATION, 94
 PROTOPLASTS, 124
 PRUNING AND TOPPING, 77
 PSEUDOMONAS PUTIDA, 107
 PULP, 17, 49, 126, 135, 141, 145
 PULP CHARACTERISATION, 17
 PULP YIELD, 135
 PULP-AND-PAPER-INDUSTRY, 126
 PULPING, 9, 10, 49, 135
 PUPAE, 29
 PUPAL SURVIVAL, 119
 PYRETHROID, 75
 PYRETHROID RESISTANCE, 90, 113
 PYRETHROIDS, 120
 PYRIPROXYFEN, 115
 PYROLYSIS, 97
 PYROLYSIS GAS, 145
 PYROSEQUENCING, 113
 PYTHIUM DEBARYANUM, 90

Q

QTL MAPPING, 76, 95
 QUALITY, 2, 3, 8, 9, 12, 14, 28, 29, 30, 31, 37, 43, 44, 95, 98
 QUATERNARY AMMONIUM COMPOUND, 108
 QUERCETIN, 24
 QUINONES, 65

R

RADIATION USE EFFICIENCY, 110
 RADICAL, 64
 RAIN, 57, 58
 RAINFALL, 34
 RAIN-FREE PERIOD, 57
 RAMIE, 129, 131, 132, 133
 RAT SIGMODON, 81
 REACTIVE DYES, 51, 94
 REACTIVE OXYGEN SPECIES, 56
 REACTIVITY, 101
 REBURNING, 114
 RECALCITRANT GENOTYPES, 28
 RECOMBINANT, 107
 RECYCLED POLYETHYLENE, 141
 REDUCED TILLAGE, 58
 REFINE, 5
 REFLECTANCE, 118
 REFORESTATION, 29
 REFUGE, 68
 REFUGES, 27, 65
 REFUGIA, 108
 REGENERATION, 71, 131, 136
 REGIONAL EFFECTS, 91
 REMOTE SENSING, 29, 41, 49, 66, 70,
 77, 91, 96, 99, 100
 REPELLENT, 75
 REPRODUCTION, 44, 82
 REPRODUCTIVE ORGAN, 64
 RESEARCH, 1, 2, 6, 12, 19, 20, 23, 26, 27,
 28, 31, 37, 38, 40, 44, 48, 50, 51, 52,
 53, 55, 56, 57, 58, 62, 63, 66, 90, 105,
 133
 RESERVE STORAGE, 51, 87
 RESIDUAL ACTIVITY, 90
 RESIDUAL WEED CONTROL, 84
 RESIDUE MANAGEMENT, 114
 RESIDUES, 44
 RESINOLS, 135, 140
 RESISTANCE, 52, 55, 75, 89, 90, 96
 RESISTANCE GENES, 85
 RESISTANCE MANAGEMENT, 56, 65
 RESOURCE AVAILABILITY, 71
 RESPIRATION, 20, 40, 104
 RESPONSES, 28
 RETARDATION DEVELOPMENT, 104
 RETTING, 125, 126
 RETURNS, 68

RHEOLOGY, 95
 RHIPICEPHALUS MICROPLUS, 69
 RHIZOSPHERE, 22, 30, 99, 103
 RHIZOSPHERE EXCHANGEABLE, 103
 RHODIUM, 112
 RIBBON WIDTH, 118
 RICE STARCH, 112
 RICE STRAW, 141
 RIDGE TILLAGE, 28
 RISK, 21, 27, 68, 70, 99
 RISK ASSESSMENT, 21, 27, 91
 RNA, 23, 24
 ROOT, 68, 77, 85, 88, 103, 122
 ROOT DEVELOPMENT, 68
 ROOT GROWTH, 88
 ROOT ROT, 90, 102
 ROOT VIGOR, 68
 ROOT/SHOOT ELONGATION, 77
 ROOT-KNOT NEMATODE, 85
 ROOTS, 105
 ROSELLE, 142
 ROTATION, 114
 ROTATIONS, 86
 ROTYLENCHULUS RENIFORMIS, 34,
 46
 ROUNDUP READY(R) FLEX, 57
 RRNA, 113
 RROOT EXUDATES, 56
 RUBISCO ACTIVASE, 55
 RUNOFF, 57, 62

S

S. AUREUS, 102
 SABAL PALMETTO, 84, 97
 SACCHAROMYCES CEREVISIAE, 16
 SACCHARUM OFFICINARUM, 26, 101
 SAFETY, 24
 SAFETY-NET HYPOTHESIS, 83
 SALICYLIC ACID, 56, 90
 SALINE SOIL, 86
 SALINE WATER, 19
 SALINITY, 26, 41, 53, 72
 SALINITY STRESS, 115
 SALT STRESS, 65, 74, 91, 107, 114, 122
 SALT TOLERANCE, 119
 SALT-FREE DYEING, 70, 94
 SAMPLING, 76, 95

SATELLITE IMAGERY, 38
 SCANNING ELECTRON
 MICROSCOPY, 8
 SCLEROTIUM ROLFSII, 10, 43
 SCREENING, 107, 121
 SCREENING STRATEGY, 121
 SEA-ISLAND COTTON, 83
 SEASONAL ABUNDANCE, 77
 SEASONAL CROPS, 44
 SECONDARY CELL WALL, 119
 SECONDARY INSECT, 83
 SECONDARY METABOLISM, 101
 SECONDARY METABOLITES, 5
 SECONDARY PEST OUTBREAK, 119
 SEED, 27, 32
 SEED CHARACTERISTICS, 136
 SEED CLEANER, 35
 SEED COAT, 52
 SEED COTTON YIELD, 26, 51
 SEED DEFOLIATION, 32
 SEED HARVESTERS, 36
 SEED QUALITY, 52
 SEED STORAGE, 110
 SEED TREATMENT, 37
 SEED VIABILITY, 86
 SEED-DEVELOPMENT, 126
 SEEDLING TRANSPLANTING, 51
 SEEDLING VIGOR, 86
 SEEDLINGS, 26, 36, 37, 130, 141
 SEEDS, 4, 7, 45, 103
 SELECTION, 76, 116
 SELECTIVE INSECTICIDES, 84
 SELF-CLEANING, 121
 SEM, 8, 70
 SEMI-ARID TROPICS, 109, 110
 SEMICHEMICAL PULPING, 142
 SEPARATION, 11
 SEQUENCING, 11
 SERRATIA PLYMUTHICA, 100
 SESQUITERPENE, 138
 SESQUITERPENES, 124
 SHAPE MEMORY POLYURETHANES,
 59
 SHEA MEAL, 96
 SHIKIMATE, 94
 SHOOTS, 136
 SIDE EFFECTS, 25
 SIGNAL TRANSDUCTION, 74
 SIGNAL TRANSDUCTION
 PATHWAYS, 122
 SILAGE-MAKING, 125
 SILICON MICROEMULSION, 86
 SILK, 59, 77
 SILK COTTON HULL, 59
 SILVER, 90, 99, 108
 SILVER NANOPARTICLES, 90, 99, 120
 SIMULATED YIELD, 68
 SIMULATION, 48, 65
 SIMULATION MODEL, 48
 SINK/SOURCE RATIO, 79
 SISAL, 140, 145
 SITE-SPECIFIC, 48, 74
 SL, 77
 SMALL-FARMS, 126
 SO₂, 114
 SOD, 26
 SODA PULPING, 141
 SODIUM, 84, 114
 SODIUM HYDROXIDE/UREA, 145
 SOFT-HAND, 86
 SOFTWARE DEVELOPMENT, 70
 SOIL, 6, 7, 19, 20, 21, 23, 28, 35, 36, 37,
 40, 41, 44, 45, 48, 50, 55, 57, 82, 99
 SOIL ANALYSIS, 40, 44, 45
 SOIL CARBON, 60
 SOIL CHEMICOPHYSICAL
 PROPERTIES, 6, 20, 35, 62
 SOIL COMPACTION, 20, 48, 58
 SOIL COVER, 79
 SOIL CULTIVATION, 103
 SOIL FERTILITY, 40, 62
 SOIL LOSS, 57, 62
 SOIL MANAGEMENT, 45, 113
 SOIL MOISTURE, 41, 73
 SOIL NUTRIENT CONCENTRATIONS,
 95
 SOIL NUTRIENTS, 62
 SOIL ORGANIC CARBON, 45, 58, 122
 SOIL QUALITY, 50, 58
 SOIL RESPIRATION, 117
 SOIL SALINITY, 88, 111
 SOIL SALINIZATION, 21
 SOIL SODICITY, 111
 SOIL TEMPERATURE, 77, 79

SOIL TEMPERATURES, 37
 SOIL TEXTURE, 20, 35
 SOIL TILLAGE, 7
 SOIL WATER, 19
 SOIL WATER CONTENT, 88
 SOIL WATER DEFICIT, 35
 SOIL-PLANT, 58
 SOIL-PROFILE DISTRIBUTION, 58
 SOL-GEL COATING, 82
 SOLID STATE CULTIVATION, 86
 SOMATIC EMBRYOGENESIS, 28, 68, 71, 85
 SORGHUM, 29, 58, 61, 108
 SORPTION, 1, 2, 12, 13, 16
 SOTWARE, 40
 SOURCE-SINK RELATIONS, 99
 SOUTH AFRICA, 19, 23, 24, 38
 SOUTHEASTERN USA, 52
 SOUTHERN BLOT, 111
 SOUTHERN OSCILLATION, 105
 SOWING, 40
 SPACING, 1, 28, 40, 42, 43, 57
 SPATIALLY VARIABLE, 95
 SPECIES, 77, 142
 SPECIES COMPOSITION, 77
 SPECTROSCOPY, 128
 SPHAEROTHECA FULIGINEA, 106
 SPIDERS, 33
 SPLIT-ROOT SYSTEM, 115
 SPODOPTERA, 21
 SPODOPTERA EXIGUA, 93, 119
 SPODOPTERA LITTORALIS, 82, 115, 117
 SPONTANEOUS COMBUSTION, 78
 SPRAYING THRESHOLD, 95
 STABILITY OF RESISTANCE, 118
 STALE SEEDBED, 87
 STAND ESTABLISHMENT, 86
 STARCH, 126, 139
 STARCH RESERVES, 99
 STEAM EXPLOSION, 8
 STEMS, 29
 STEREOSELECTIVITY, 78
 STIGMA, 53, 126
 STINK BUGS, 103
 STOMATA, 40
 STOMATAL APERTURE, 53
 STOMATAL CONDUCTANCE, 70, 76
 STORAGE, 125
 STORAGE STABILITY, 114
 STOVE, 27
 STRAIGHT VEGETABLE OILS, 97
 STRAW, 144
 STRENGTH, 9
 STRENGTH, 2, 3, 6, 8, 11, 14, 15, 16, 17, 30, 37, 52, 75, 129, 131, 141
 STRESS, 23, 26, 53
 STUBBLE RETENTION, 114
 SUBMERGED CULTIVATION, 86
 SUBSOILING, 48
 SUBSTANTIAL EQUIVALENCE, 57
 SUBSTITUTION LINES, 70
 SUBTENDING LEAF OF COTTON BOLL, 75
 SUCROSE, 75, 82, 96, 101
 SUCROSE METABOLISM, 75, 96
 SUCROSE SYNTHASE, 82
 SUGAR CANE BAGASSE, 96
 SUGARBEET, 77
 SULFATE-PULPING, 126
 SUNNHEMP, 8
 SUPERCRITICAL CO₂, 50
 SUPEROXIDE DISMUTASE, 26
 SUPPLY AND DEMAND, 7
 SUPPORT, 70
 SUPPRESSION SUBTRACTIVE HYBRIDIZATION, 54, 85
 SURFACE WATER, 47
 SURFACE-ROUGHNESS, 126
 SURROGATES, 72
 SURVEYING METHODS, 29
 SURVIVAL, 22, 51
 SUSTAINABLE AGRICULTURE, 71
 SWELLING, 79
 SYLLEPTE DEROGATA, 88
 SYMPTOMS TRANSFECTION, 124
 SYNCHRONIZATION CONTROL, 68
 SYNERGISM, 87
 SYNERGY, 72
 SYNGAS, 97, 106
 SYNTHETIC FIBRES, 142, 146
 SYRINGYL, 135, 143
 T
 TANKS, 125

T-BUTANOL, 52
 TECHNOLOGY, 4, 7, 63, 81, 99, 124
 TECHNOLOGY ADOPTION, 65
 TECHNOLOGY OF MARKETING, 109
 TEMPERATE ALLEY CROPPING, 83
 TEMPERATURE, 12, 59, 79, 81, 110
 TEMPERATURE INTERACTION, 89
 TEMPERATURE SENSITIVE, 81
 TEMPERATURES, 29
 TENSILE STRENGTH, 146
 TETRANYCHUS, 69
 TETRAPLOID, 88
 TETRAPLOIDY, 33, 46
 TEXTILE, 1, 2, 4, 6, 8, 12, 24, 40, 75, 87,
 95, 98, 131, 133, 134, 140
 TEXTILE FINISH, 108
 TEXTILE FINISHING, 100, 117
 TEXTILE INDUSTRY, 6, 24
 TEXTILES, 4
 THERMAL, 146
 THERMAL ANALYSIS, 78
 THERMAL BEHAVIOR, 123, 142
 THERMAL DEGRADATION, 96
 THERMAL PROPERTIES, 147
 THERMAL TIME, 79
 THERMOPLASTIC COMPOSITES, 121
 THERMOPLASTIC STARCH, 112
 THERMOREGULATION, 127
 THICKENER RECYCLING, 95
 THIELAVIOPSIS BASICOLA, 37
 THRIPS, 43
 TILLAGE, 23, 29, 35, 44, 62, 91, 114
 TILLAGE MANAGEMENT, 34
 TILLAGE SYSTEM, 57
 TIME TEMPERATURE THRESHOLD,
 101
 TISSUE CULTURE, 11, 13, 32, 111
 TISSUE NUTRIENTS, 91
 TITRATION, 94
 TOBACCO, 6, 25
 TOCOL, 4
 TOP DOWN EFFECTS, 71
 TOXICITY, 45, 49, 79
 TOXINS, 33
 TRAFFICKING, 57, 58
 TRANSCRIPT ACCUMULATION, 64
 TRANSCRIPTIONAL ACTIVATOR, 71
 TRANSCRIPTOME MAP, 122
 TRANSEGENIC PLANTS, 68
 TRANSESTERIFICATION, 146
 TRANSFORMATION, 131
 TRANSGENIC, 19, 22, 24, 25, 26, 27, 37,
 38, 43, 45, 48, 55, 56, 61, 63, 77, 82,
 91, 108, 118, 131
 TRANSGENIC COTTON, 56, 87, 88
 TRANSGENIC CROP, 55
 TRANSGENIC CROPS, 105
 TRANSGENIC PLANTS, 19, 22, 24, 25,
 26, 27, 37, 38, 43, 45, 48, 61, 63, 101,
 109
 TRANSGENIS PLANTS, 21, 62
 TRANSLATION, 124
 TRANSLOCATION, 57
 TRANSMISSION LOSS, 81
 TRANSPIRATION, 53, 112
 TRANSPORT, 58
 TRANSPORTATION, 17
 TRAP CROP, 94
 TRAPS, 20
 TREATMENT, 45
 TREE-CROP INTERACTION, 83
 TRICHLOROETHYLENE, 81
 TRICHODERMA, 32, 90, 121
 TRICHODERMA VIRENS, 46
 TRICHOPLUSIA NI, 22
 TRICKLE IRRIGATION, 19, 20, 47, 57,
 59
 TRIDECANONE, 24
 TRITICUM AESTIVUM, 20, 35, 74
 TRI-TROPHIC INTERACTIONS, 71
 TROPOSPHERIC, 46
 TRYPSIN, 12, 13, 114
 TSETSE FLY, 118
 TUNGSTATE, 68
 TURGOR, 27
 TURKEY, 32

 U
 ULTRA VIOLET, 72
 ULTRA-NARROW, 113
 ULTRASONIC TECHNIQUE, 120
 ULTRASONIC, 37
 ULTRASTRUCTURE, 128, 146
 UNCERTAINTY, 48

- UNEQUAL SALT DISTRIBUTION, 115
 UPLAND, 70
 UPLAND COTTON, 72, 122
 UPTAKE CAPABILITY, 78
 UREA, 125
 UREA PHOSPHATE, 123
 UREASE, 78
 UV, 123
 UV IRRADIATION, 121
 UV PROTECTION, 103
 UV-BLOCKING, 111
 UV-PROTECTION, 97, 106, 111
 UZBEKISTAN, 41, 59, 73, 111, 116
- V
- VACCIN, 81
 VALIDATION, 77
 VALUE ADDED, 27
 VALUE CHAIN ANALYSIS, 115
 VARIETIES, 2, 4, 14, 19, 29, 35, 39, 44, 46, 68, 98, 101, 132
 VARIETY SCREENING, 66
 VEGETABLE OIL, 114, 137, 146
 VEGETABLE OILS, 84
 VEGETATION INDICES, 77
 VEGETATIVE PERIOD, 141
 VEGETATIVE PHASE, 4
 VERTICILLIUM, 21, 89, 100, 121
 VERTICILLIUM DAHLIA, 21
 VERTICILLIUM DAHLIAE, 21, 22, 54
 VERTICILLIUM LECANII, 76, 106
 VERTICILLIUM WILT, 22, 77
 VERTISOL, 19, 57, 58
 VERTISOLS, 37, 40, 44, 62
 VERTOSOL, 114
 VIP3A, 54
 VIRAL EPISOME, 104
 VIRGIN, 141
 VIROSES, 10
 VIRUS, 81
 VISCOSITY, 97
 VOLATILES, 93, 103
- W
- WASHING FASTNESS, 82
 WATER, 12, 19, 20, 27, 29, 85, 90, 103
 WATER AVAILABILITY, 30, 40, 41, 47
 WATER BINDING CAPACITY, 27
 WATER CAPTURE, 81
 WATER CONSUMPTION, 81
 WATER CONTENT, 105
 WATER DEFICIT, 30
 WATER EXPENSE EFFICIENCY, 51
 WATER INDEX, 118
 WATER MANAGEMENT, 30
 WATER POLLUTION, 30
 WATER POTENTIAL, 35, 101
 WATER PRODUCTION FUNCTIONS, 80
 WATER PRODUCTIVITY, 20, 35, 48, 77, 90, 105
 WATER QUALITY, 19, 111
 WATER REPELLENCY, 114
 WATER REQUIREMENT, 30, 35
 WATER RESOURCES, 30, 36
 WATER RETENTION, 12
 WATER SAVINGS, 90
 WATER SCARCITY, 111
 WATER STRESS, 53, 68, 85, 93, 100
 WATER UPTAKE, 105
 WATER USE, 30, 47, 48, 57, 59
 WATER USE EFFICIENCY, 30, 72, 83, 112, 119
 WATER VAPOR PERMEABILITY, 59
 WATERLOGGING, 21, 72, 84
 WATER-YIELD RELATION, 30, 47, 85
 WEATHERING REACTION, 117
 WEED, 18, 35, 37, 43, 45, 46, 47, 53, 62, 70, 84, 87, 100
 WEED CONTROL, 18, 35, 37, 45, 47, 87
 WEED EMERGENCE, 84
 WEED MAPPING, 70
 WEED SUPPRESSION, 18
 WEEDS, 35, 37, 39, 43, 47, 62
 WEST AFRICA, 24, 66
 WET OXIDATION, 8
 WETLANDS, 29
 WHEAT, 20, 22, 32, 33, 35, 36, 41, 58, 114
 WHEAT STRAW, 111, 138
 WHITEFLY, 113
 WHITENESS INDEX, 112
 WIGHT, 1
 WILDLIFE, 118
 WILT DISEASE, 21
 WILTS, 39
 WIND, 58

WINTER WHEAT, 116
WIRELESS, 92, 95, 123
WIRELESS COMMUNICATION, 92
WLAN, 95
WOOL, 77
WRINKLE-FREE, 86

X

XANTHIUM STRUMARIUM, 62
XANTHOMONAS CAMPESTRIS, 42, 56,
72
XANTHOTOXIN, 106
XENOBIOTICS, 106
X-RAY, 10, 141
X-RAY DIFFRACTION, 147
XYLAN, 117
XYLOGLUCAN
 ENDOTRANSGLYCOSYLASE/HY
 DROLASE, 82

Y

YARN PROPERTIES, 137

YARN STRENGTH, 118
YARNS, 125
YIELD, 30, 31, 43, 69, 83, 87, 108, 112,
114
YIELD CALIBRATION, 92
YIELD COMPONENTS, 43, 69
YIELD MAPPING, 123
YIELD MONITOR, 92
YIELD RESPONSE, 103
YIELD TRAITS, 76
YIELD-COMPONENTS, 125
YIELDS, 20, 21, 22, 24, 26, 28, 29, 30, 31,
34, 35, 37, 38, 39, 41, 42, 43, 47, 60,
62, 66, 67, 103, 105, 116

Z

ZEA MAYS, 29, 30, 35, 47
ZEATIN, 51
ZERO TILLAGE, 86
ZIMBABWE, 118
ZINC, 6
ZNO, 123