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Bibliography of carbohydrate polymers

(3 weeks journals. Search completed at 25th. Mar. 2009)

1. Reviews

- Ikai T, Yamamoto C, Kamigaito M, Okamoto Y*// *Nagoya Univ, Ecotopia Sci Inst, Furo cho, Chikusa ku, Nagoya, Aichi 464 8603, Japan
J Chromatogr B 2008 **875** (1) 2
Immobilized-type chiral packing materials for HPLC based on polysaccharide derivatives
- Payasi A, Sanwal R, Sanwal GG*// *Univ Lucknow, Dept Biochem, IN-226007 Lucknow, India
World J Microbiol Biotechnol 2009 **25** (1) 1
Microbial pectate lyases: Characterization and enzymological properties
- Robyt J// Iowa State University, Department Biochemistry Biophysics & Molecular Biology, Laboratory Carbohydrate Chem & Enzymol, Ames, Ia 50011, USA
Biologia 2008 **63** (6) 980
Mechanisms involved in the biosynthesis of polysaccharides
- Saravanan D, Vasanthi NS, Ramachandran T// Bannari Amman Inst Technol, Dept Textile Technol, IN-638401 Sathyamangalam, India
Carbohydr Polym 2009 **76** (1) 1
A review on influential behaviour of biopolishing on dyeability and certain physico-mechanical properties of cotton fabrics
- Seo ES, Christiansen C, Hachem MA, Nielsen MM, Fukuda K, Bozonnet S, Blennow A, Aghajari N, Haser R, Svensson B*// *Tech Univ Denmark, Dept System Biol, Bldg 224, DK-2800 Lyngby, Denmark
Biologia 2008 **63** (6) 967
An enzyme family reunion - Similarities, differences and eccentricities in actions on α -glucans
- Tattiyakul J, Liao HJ, Rao MA*// *Cornell Univ, Dept Food Sci & Technol, Geneva, NY 14456, USA
Int J Food Prop 2009 **12** (1) 2
Role of structure in the measurement of flow properties of food and starch dispersions: A review

2. Cellulose

- Amirkhani M, Volden S, Zhu K, Giomm WR, Nystrom B*// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
J Colloid Interface Sci 2008 **328** (1) 20
Adsorption of cellulose derivatives on flat gold surfaces and on spherical gold particles
- Bar-Nir BBA, Kadla JF*// *Univ British Columbia, Advanced Biomaterials Chem Lab, Vancouver, Brit Columbia, Canada V6T 1Z4
Carbohydr Polym 2009 **76** (1) 60
Synthesis and structural characterization of 3-O-ethylene glycol functionalized cellulose derivatives
- Bernard V, Sofie V, Martens JA, Van J, Ludo F, Jan V, Guy V*, Patrick A// *Katholieke University Leuven, Laboratory Pharmacotechnology & Biopharm, Gasthuisberg Onderwijs en Navorsing 2, Herestr 49, Box 921, BE-3000 Louvain, Belgium
Eur J Pharm Biopharm 2008 **70** (2) 590
Microcrystalline cellulose, a useful alternative for sucrose as a matrix former during freeze-drying of drug nanosuspensions - A case study with itraconazole

- Cai J, Zhang L*, Liu SL, Liu YT, Xu XJ, Chen XM, Chu B, Guo XL, Xu J, Cheng H, Han CC, Kuga S// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Macromolecules 2008 **41** (23) 9345
Dynamic self-assembly induced rapid dissolution of cellulose at low temperatures
- Choi JI, Lee HS, Kim JH, Lee KW, Chung YJ, Byun MW, Lee JW*// *Korea Atom Energy Res Inst, Advanced Radiat Technol Inst, 1266 Sinjeong dong, Jeongeup 580 185, South Korea
Nucl Instrum Methods Phys Res B 2008 **266** (23) 5068
Effect of electron beam irradiation on the viscosity of carboxymethylcellulose solution
- Christa FB, Thomas B*// *Leopold-Franzens University Innsbruck, Research Institute Textile Chemistry & Textile Physics, Christian Doppler Laboratory Textile & Fibre Chemistry Cellulosics, Hoechststrasse 73, AT-6850 Dornbirn, Austria
Carbohydr Polym 2009 **76** (1) 123
Sorption of alkaline earth metal ions Ca^{2+} and Mg^{2+} on lyocell fibres
- Collier JR, Watson JL, Collier BJ, Petrovan S// FAMU-FSU, Tallahassee, FL 32310, USA
J Appl Polym Sci 2009 **111** (2) 1019
Rheology of 1-butyl-3-methylimidazolium chloride cellulose solutions. II. Solution character and preparation
- Dorn S, Wendler F*, Meister F, Heinze T// *Thuringian Inst Textile & Plastics Res, Ctr Excellence Polysaccharide Res, Breitscheidstr 97, DE-07407 Rudolstadt, Germany
Macromol Mater Eng 2008 **293** (11) 907
Interactions of ionic liquids with polysaccharides - 7: Thermal stability of cellulose in ionic liquids and *N*-methylmorpholine-*N*-oxide
- Gupta R, Sharma KK, Kuhad RC*// *University Delhi Sth Campus, Dept Microbiol, Lignocellulose Biotechnol Lab, Benito Juarez Rd, IN-110021 New Delhi, India
Bioresour Technol 2009 **100** (3) 1214
Separate hydrolysis and fermentation (SHF) of *Prosopis juliflora*, a woody substrate, for the production of cellulosic ethanol by *Saccharomyces cerevisiae* and *Pichia stipitis*-NCIM 3498
- Gutierrez LF, Sanchez OJ, Cardona CA*// *Univ Nacl Colombia Monizales, Department Chem Engr, Cra 27 64-60 OF, CO-505 Manizales, Caldas, Colombia
Bioresour Technol 2009 **100** (3) 1227
Process integration possibilities for biodiesel production from palm oil using ethanol obtained from lignocellulosic residues of oil palm industry
- Jamborova G, Pospisilova N, Semecky V, Hyspler R, Ticha A, Pospisilova K, Solichova D, Maxova M, Bristensky J, Real KJ, Nachtigal P*// *Charles Univ Prague, Fac Pharm, Dept Biol & Med Sci, CZ-50165 Hradec Kralove, Czech Republic
Nutrition 2008 **24** (11-12) 1174
Microdispersed oxidized cellulose as a novel potential substance with hypolipidemic properties
- Kannangara D, Shen W*// *Monash Univ, Dept Chem Engr, Clayton Campus, Clayton, Vic 3800, Australia
Colloid Surface A 2008 **330** (2-3) 151
Roughness effects of cellulose and paper substrates on water drop impact and recoil

As a service to subscribers of the journal, this bibliography contains newly published material in the field of carbohydrate polymers. The bibliography is divided into thirteen sections: 1 Reviews; 2 Cellulose; 3 Cellulose-degrading enzymes; 4 Chitin/Chitosan; 5 Cyclodextrins; 6 Lignin; 7 Lipopolysaccharides; 8 Pectin; 9 Starch; 10 Starch-degrading enzymes; 11 Polysaccharides - Microbial; 12 Polysaccharides - Plant; 13 Polysaccharides - Other. Within each section, articles are listed in alphabetical order with respect to author. When there are no publications to appear under one of these headings, that section will be omitted.

- Kasat RB, Wee SY, Loh JM, Wang NHL, Franses EI*// *Purdue University, School Chemical Engineering, 480 Stadium Mall Dr, West Lafayette, IN 47907, USA
J Chromatogr B 2008 **875** (1) 81
 Effect of the solute molecular structure on its enantioresolution on cellulose tris(3,5-dimethylphenylcarbamate)
- Krishnani KK, Meng XG, Boddu VM// Cent Inst Brackishwater Aquaculture, 75 Santhome High Rd, IN-600028 Chennai, India
Water Environ Res 2008 **80** (11) 2165
 Fixation of heavy metals onto lignocellulosic sorbent prepared from paddy straw
- Krouit M, Granet R, Krausz P*// *Univ Limoges, Lab Chim Subst Nat, 123 Ave Albert Thomas, FR-87060 Limoges, France
Bioorg Med Chem 2008 **16** (23) 10091
 Photobactericidal plastic films based on cellulose esterified by chloroacetate and a cationic porphyrin
- Kulkarni RV, Sa B*// *Jadavpur University, Department Pharmaceutical Technology, Centre Advanced Research Pharmaceut Sci, IN-700032 Kolkata, India
Drug Develop Ind Pharm 2008 **34** (12) 1406
 Evaluation of pH-sensitivity and drug release characteristics of (polyacrylamide-grafted-xanthan)-carboxymethyl cellulose-based pH-sensitive interpenetrating network hydrogel beads
- Li R, Fei J, Cai Y, Li Y, Feng J, Yao J*// *Zhejiang Sci-Tech University, College Materials & Textile, MoE Key Laboratory Advanced Textile Materials & Mfg Technol, Xiasa Higher Educat Pk, CN-310018 Hangzhou, Peoples Rep China
Carbohydr Polym 2009 **76** (1) 94
 Cellulose whiskers extracted from mulberry: A novel biomass production
- Navarro-Tarazaga ML, Del Rio MA, Krochta JM, Perez-Gago MB*// *Inst Valenciano Invest Agric Fdn Agroalimed, Postharvest Dept, ES-46113 Moncada, Spain
J Agric Food Chem 2008 **56** (22) 10689
 Fatty acid effect on hydroxypropyl methylcellulose-beeswax edible film properties and postharvest quality of coated 'Ortanique' mandarins
- Pohl M, Heinze T*// *Univ Jena, Ctr Excellence Polysaccharide Res Jena Rudolstadt, Humboldtstr 10, DE-07743 Jena, Germany
Macromol Rapid Commun 2008 **29** (21) 1739
 Novel biopolymer structures synthesized by dendronization of 6-deoxy-6-aminopropargyl cellulose
- Pranger L, Tannenbaum R// Georgia Inst Technol, Sch Materials Sci & Engr, Atlanta, Ga 30332, USA
Biomolecules 2008 **41** (22) 8682
 Biobased nanocomposites prepared by *in situ* polymerization of furfuryl alcohol with cellulose whiskers or montmorillonite clay
- Ren JL, Peng F, Sun RC*// *Northwestern University Agriculture & Forest Science & Technology, College Forestry, Yanglin, Shaanxi Province, Peoples Rep China
J Agric Food Chem 2008 **56** (23) 11209
 Preparation of hemicellulosic derivatives with bifunctional groups in different media
- Rodriguez F, Castillo-Ortega MM, Encinas JC, Grijalva H, Brown F, Sanchez-Corrales VM, Castano VM// Univ Sonora, Dept Invest Polimeros & Materiales, AP 130, MX-83000 Hermosillo, Sonora, Mexico
J Appl Polym Sci 2009 **111** (3) 1216
 Preparation, characterization, and adsorption properties of cellulose acetate-polyaniline membranes
- Roos AA, Persson T, Krawczyk H, Zacchi G, Stalbrand H*// *Lund Univ, Dept Biochem, POB 124, SE-22100 Lund, Sweden
Bioresour Technol 2009 **100** (2) 763
 Extraction of water-soluble hemicelluloses from barley husks
- Saariinen T, Osterberg M, Laine J// Helsinki Univ Technol, Dept Forest Prod Technol, POB 3320, FI-02015 Helsinki, Finland
Colloid Surface A 2008 **330** (2-3) 134
 Adsorption of polyelectrolyte multilayers and complexes on silica and cellulose surfaces studied by QCM-D
- Shaikh HM, Pandare KV, Nair G, Varma AJ*// *Nat Chem Lab, Polym Sci & Engr Div, IN-411008 Pune, India
Carbohydr Polym 2009 **76** (1) 23
 Utilization of sugarcane bagasse cellulose for producing cellulose acetates: Novel use of residual hemicellulose as plasticizer
- Song HH, Clarke WP*// *Univ Queensland, Sch Engr, St Lucia, Qld 4072, Australia
Bioresour Technol 2009 **100** (3) 1268
 Cellulose hydrolysis by a methanogenic culture enriched from landfill waste in a semi-continuous reactor
- Stocker M// SINTEF Materials & Chem, POB 124 Blindern, NO-0314 Oslo, Norway
Angew Chem Int Ed 2008 **47** (48) 9200
 Biofuels and biomass-to-liquid fuels in the biorefinery: Catalytic conversion of lignocellulosic biomass using porous materials
- Tyagi C, Tomar LK, Singh H*// *Indian Inst Technol, Ctr Biomed Engr, IN-110016 New Delhi, India
J Appl Polym Sci 2009 **111** (3) 1381
 Surface modification of cellulose filter paper by glycidyl methacrylate grafting for biomolecule immobilization: Influence of grafting parameters and urease immobilization
- Valencia-Chamorro SA, Palou L, Del Rio MA, Gago MBP*// *Inst Valenciano Invest Agric, Ctr Tecnol Poscosecha, ES-46113 Valencia, Spain
J Agric Food Chem 2008 **56** (23) 11270
 Inhibition of *Penicillium digitatum* and *Penicillium italicum* by hydroxypropyl methylcellulose-lipid edible composite films containing food additives with antifungal properties
- Vazquez MI, De Lara R, Benavente J*// *Univ Malaga, Grp Caracterizacion Electrocinetica & Transporte Membranas & Interfases, ES-29071 Malaga, Spain
J Colloid Interface Sci 2008 **328** (2) 331
 Chemical surface, diffusional, electrical and elastic characterization of two different dense regenerated cellulose membranes
- Zhu J, Wang WT, Wang XL, Li B, Wang YZ*// *Sichuan Univ, Coll Chem, MoE Key Lab Green Chem & Technol, Ctr Degradable & Flame-Retardant Polym Materials, CN-610064 Chengdu, Peoples Rep China
Carbohydr Polym 2009 **76** (1) 139
 Green synthesis of a novel biodegradable copolymer base on cellulose and poly(*p*-dioxanone) in ionic liquid
- Zuluaga R, Putaux JL, Cruz J, Velez J, Mondragon I, Ganan P*// *Pontificia Bolivariana Univ, Sch Engr Mech, Engr Program, New Materials Res Grp, Circular 1 70 01, Medellin, Colombia
Carbohydr Polym 2009 **76** (1) 51
 Cellulose microfibrils from banana rachis: Effect of alkaline treatments on structural and morphological features

3. Cellulose-degrading enzymes

- Bommarius AS, Katona A, Cheben SE, Patel AS, Ragauskas AJ, Knudson K, Pu Y// Georgia Inst Technol, Sch Chem & Biomol Engr, Parker H Petit Inst Bioengn & Biosci, 315 First Dr, Atlanta, Ga 30332, USA
Metab Eng 2008 **10** (6) 370
 Cellulase kinetics as a function of cellulose pretreatment
- Carapito R, Carapito C, Jeltsch JM, Phalip V*// *Univ Louis Pasteur, Ecole Super Biotechnol Strasbourg, CNRS UMR 7175, Blvd Sebastien Brandt, BP 10413, FR-67412 Illkirch-Graffenstaden, France
Bioresour Technol 2009 **100** (2) 845
 Efficient hydrolysis of hemicellulose by a *Fusarium graminearum* xylanase blend produced at high levels in *Escherichia coli*
- Chandra M, Kalra A*, Sangwan NS, Gaurav SS, Darokar MP, Sangwan RS// *Cent Inst Med & Aromat Plants, Div Field Labs & Organic Farming, IN-226015 Lucknow, India
Bioresour Technol 2009 **100** (4) 1659
 Development of a mutant of *Trichoderma citrinoviride* for enhanced production of cellulases
- Feng T, Gong J, Du YM, Huang ZL// Wuhan Univ Sci & Technol, Coll Resources & Environm Engr, Dept Environm Engr, CN-430081 Wuhan, Peoples Rep China
J Appl Polym Sci 2009 **111** (1) 545
 Free radical scavenging activity of cellulase-treated chitosan
- Ikuta Y, Karita S, Kitago Y, Watanabe N, Hirata F*// *Inst Mol Sci, Dept Theoret & Computational Mol Sci, Okazaki, Aichi 444 8585, Japan
Chem Phys Lett 2008 **465** (4-6) 279
 A water molecule identified as a substrate of enzymatic hydrolysis of cellulose: A statistical-mechanics study
- Lv ZW, Yang JS, Wang ET, Yuan HL*// *China Agric Univ, Coll Biol Sci, MoA Key Lab Agromicrobial Resource & Application, CN-100193 Beijing, Peoples Rep China
Process Biochem 2008 **43** (12) 1467
 Characterization of extracellular and substrate-bound cellulases from a mesophilic sugarcane bagasse-degrading microbial community
- Matsui H, Ban-Tokuda T// Mie Univ, Grad Sch Bioresources, Tsu, Mie, Japan
Curr Microbiol 2008 **57** (6) 615
 Studies on carboxymethyl cellulase and xylanase activities of anaerobic fungal isolate CR4 from the bovine rumen
- Takimoto A, Shiomi T, Ino K, Tsunoda T*, Kawai A, Mizukami F, Sakaguchi K// *Nat Inst Advanced Ind Sci & Technol, Res Ctr Compact Chem Process, 4-2-1 Nigateke, Miyagino ku, Sendai, Miyagi 983 8551, Japan
Microporous Mesoporous Mater 2008 **116** (1-3) 601
 Encapsulation of cellulase with mesoporous silica (SBA-15)
- Zhou J, Wang YH*, Chu J, Luo LZ, Zhuang YP, Zhang SL// *East China Univ Sci & Technol, Natl Engr Res Ctr Biotechnol Shanghai, State Key Lab Bioreactor Engr, CN-200237 Shanghai, Peoples Rep China
Bioresour Technol 2009 **100** (2) 819
 Optimization of cellulase mixture for efficient hydrolysis of steam-exploded corn stover by statistically designed experiments

4. Chitin/Chitosan

Ai HH, Huang XT*, Zhu ZH, Liu JP, Chi QB, Li YY, Li ZK, Ji XX// *Hubei Univ, Key Lab Ferroelectric & Piezoelectric Materials & Devices Hubei Prov, Luoyu Rd 152, CN-430062 Wuhan, Peoples Rep China
Biosens Bioelectron 2008 **24** (4) 1048

A novel glucose sensor based on monodispersed Ni/Al layered double hydroxide and chitosan

Al-Sigeny S, Abou Taleb MF*, El-Kelesh NA// *Natl Ctr Radiat Res & Technol, POB29, Nasr City, Cairo, Egypt

J Macromol Sci Pure Appl Chem 2009 **46** (1) 74

Hybrid nanocomposite prepared by graft copolymerization of 4-acryloyl morpholine onto chitosan in the presence of organophilic montmorillonite

Bao HQ, Li L*, Zhang HB// *Nanyang Technol Univ, Sch Mech & Aerospace Engrn, 50 Nanyang Ave, SG-639798 Singapore, Rep Singapore

J Colloid Interface Sci 2008 **328** (2) 270

Influence of cetyltrimethylammonium bromide on physicochemical properties and microstructures of chitosan-TPP nanoparticles in aqueous solutions

Borges O, Silva M, De Sousa A, Borchard G, Junginger HE, Cordeiro-da-Silva A// Univ Coimbra, Ctr Pharmaceut Studies, Rua Norte, Coimbra, Portugal
Int Immunopharmacol 2008 **8** (13–14) 1773

Alginate coated chitosan nanoparticles are an effective subcutaneous adjuvant for hepatitis B surface antigen

Calinescu C, Mateescu MA// *Univ Quebec, Dept Chem, CP 8888, Succ A, Montreal, Quebec, Canada H3C 3P8

Eur J Pharm Biopharm 2008 **70** (2) 582

Carboxymethyl high amylose starch: Chitosan self-stabilized matrix for probiotic colon delivery

Chen XL, Ding S, Qu GW, Zhang C// *China Pharmaceut Univ, Ctr Drug Discovery, CN-210009 Nanjing, Peoples Rep China

J Bioact Compat Polym 2008 **23** (6) 563

Synthesis of novel chitosan derivatives for micellar solubilization of cyclosporine A

Cheung WH, Szeto YS, McKay G// *Hong Kong Univ Sci & Technol, Dept Chem Engrn, Kowloon, Hong Kong, Peoples Rep China

Bioresour Technol 2009 **100** (3) 1143

Enhancing the adsorption capacities of acid dyes by chitosan nano particles

Chinta DD, Graves RA, Pamujula S, Praetorius N, Bostanian LA, Mandal TK// *Xavier Univ Louisiana, Coll Pharm, Ctr Nanomed & Drug Delivery, 1 Drexel Dr, New Orleans, La 70125, USA

Drug Develop Ind Pharm 2009 **35** (1) 43

Spray-dried chitosan as a direct compression tableting excipient

Chua PH, Neoh KG*, Shi Z, Kang ET// *Natl Univ Singapore, Dept Chem & Biomol Engrn, SG-119260 Singapore, Rep Singapore

J Biomed Mater Res A 2008 **87A** (4) 1061

Structural stability and bioapplicability assessment of hyaluronic acid-chitosan polyelectrolyte multilayers on titanium substrates

Gallyamov MO, Chaschin IS, Gamzazade AI*, Khokhlov AR// *Nesmeyanov Organoelement Cpd Inst, Vavilova 28, GSP-1, RU-119991 Moscow, Russia

Macromol Chem Phys 2008 **209** (21) 2204

Chitosan molecules deposited from supercritical carbon dioxide on a substrate: Visualization and conformational analysis

Gonzalez-Aguilar GA, Valenzuela-Soto E, Lizardi-Mendoza J, Goycoolea F, Martinez-Tellez MA, Villegas-Ochoa MA, Monroy-Garcia IN, Ayala-Zavala JF// Ctr Invest Alimentacion & Desarrollo AC, Carretera Victoria km 0.6, Apdo Postal 1735, MX-83000 Hermosillo, Sonora, Mexico

J Sci Food Agric 2009 **89** (1) 15

Effect of chitosan coating in preventing deterioration and preserving the quality of fresh-cut papaya 'Maradol'

Jiang HL, Kwon JT, Kim EM, Kim YK, Arote R, Jere D, Jeong HJ, Jang MK, Nah JW, Xu CX, Park IK, Cho MH*, Cho CS// *Seoul Natl Univ, Coll Veterinary Med, Toxicol Lab, Seoul 151 742, South Korea

J Controlled Release 2008 **131** (2) 150

Galactosylated poly(ethylene glycol)-chitosan-graft-polyethylenimine as a gene carrier for hepatocyte-targeting

Kaushika A, Khan R, Solanki PR, Pandey P, Alam J, Ahmad S, Malhotra BD// *Natl Phys Lab, Biomol Elect & Conducting Polymer Res Grp, KS Krishnan Marg, IN-110012 New Delhi, India

Biosens Bioelectron 2008 **24** (4) 676

Iron oxide nanoparticles-chitosan composite based glucose biosensor

Khan MR, Doohan FM// Univ Coll Dublin, Coll Life Sci, Sch Biol & Environm Sci, Mol Plant Microbe Interact Grp, Dublin 4, Rep Ireland

Biol Control 2009 **48** (1) 48

Comparison of the efficacy of chitosan with that of a fluorescent pseudomonad for the control of *Fusarium* head blight disease of cereals and associated mycotoxin contamination of grain

Konieczna-Molenda A, Fiedorowicz M, Zhong W, Tomasik P// *Univ Agric, Dept Chem, Balicka St 122, PL-30149 Krakow, Poland

Carbohydr Res 2008 **343** (18) 3117

Polarized light-stimulated enzymatic hydrolysis of chitin and chitosan

Lee HW, Karim MR, Park JH, Do Ghim H, Choi JH, Kim K, Deng YL, Yeum JH// *Kyungpook Natl Univ, Dept Advanced Organ Materials Sci & Engrn, Taegu 702 701, South Korea

J Appl Polym Sci 2009 **111** (1) 132

Poly(vinyl alcohol)/chitosan oligosaccharide blend submicrometer fibers prepared from aqueous solutions by the electrospinning method

Li JM, Meng XG*, Hu CW, Du J// *Sichuan Univ, Coll Chem, MoE Key Lab Green Chem & Technol, CN-610064 Chengdu, Peoples Rep China

Bioresour Technol 2009 **100** (3) 1168

Adsorption of phenol, *p*-chlorophenol and *p*-nitrophenol onto functional chitosan

Li QL, Wu MY, Tang LL, Zhou J, Jiang Y, Darvell BW// Anhui Med Univ, Fac Stomatol, Hefei, Peoples Rep China

J Bioact Compat Polym 2008 **23** (6) 520

Bioactivity of a novel nano composite of hydroxyapatite and chitosan-phosphorylated chitosan polyelectrolyte complex

Maji TK, Hussain MR// Tezpur Univ, Dept Chem Sci, IN-784028 Tezpur, Assam, India

J Appl Polym Sci 2009 **111** (2) 779

Microencapsulation of *Zanthoxylum limonella* oil (ZLO) in genipin crosslinked chitosan-gelatin complex for mosquito repellent application

Mennini N, Furlanetto S, Maestrelli F, Pinzauti S, Mura P// *Univ Florence, Dept Pharmaceut Sci, Via Schiff, IT-50149 Sesto Fiorentino, Italy

Eur J Pharm Sci 2008 **35** (4) 318

Response surface methodology in the optimization of chitosan-Ca pectinate bead formulations

Modrzejewska Z, Biniias D, Wojtasz-Pajak A, Dorabalska M, Zarzycki R// Tech Univ Lodz, Dept Environm Engrn System, ul Wolczanska 213, PL-90924 Lodz, Poland

Cryst Growth Des 2008 **8** (12) 4372

Crystalline structure of chitosan microgranules cross-linked with Cu²⁺ and Ag⁺ ions

Mulik R, Kulkarni V, Murthy RSR// *Maharaja Sayajirao Univ Baroda, Dept Pharmaceut, Drug Delivery System Lab, Donors Plaza, IN-390002 Baroda, Gujarat, India

Drug Develop Ind Pharm 2009 **35** (1) 49

Chitosan-based thermosensitive hydrogel containing liposomes for sustained delivery of cytarabine

Nasr HE, Sayyah SM, Essa DM, Samaha SH, Rabie AM// Nat Res Ctr, Polym & Pigments Dept, El Buthoth St, EG-12311 Cairo, Dokki, Egypt

Carbohydr Polym 2009 **76** (1) 36

Utilization of acrylates emulsion terpolymer with chitosan as a finishing agent for cotton fabrics

Onesippe C, Lagerge S// Univ Montpellier II, FR 1878 CNRS, CNRS UMR 5072, Federat Labs Gerhardt, Lab Agregats Mol & Material Inorgan, FR-34095 Montpellier 05, France

Colloid Surface A 2008 **330** (2–3) 201

Studies of the association of chitosan and alkylated chitosan with oppositely charged sodium dodecyl sulfate

Park SS, Kim SG*, Lim SC, Ong JL// *Chosun Univ, Coll Dent, Dept Oral & Maxillofacial Surg, Kwangju, South Korea

J Biomed Mater Res A 2008 **87A** (3) 618

Osteogenic activity of the mixture of chitosan and particulate dentin

Payet L, Ponton A*, Leger L, Hervet H, Grossiord JL, Agnely F// *UMR 7057 CNRS Matiere & Systemes Complexes, Case 7056, FR-75205 Paris 13, France

Macromolecules 2008 **41** (23) 9376

Self-diffusion in chitosan networks: From a gel-gel method to fluorescence recovery after photobleaching by fringe pattern

Ramaprasad AT, Rao V*, Praveena M, Sanjeev G, Ramanani SP, Sabharwal S// *Mangalore Univ, Dept Materials Sci, IN-574199 Mangalagangothri, India

J Appl Polym Sci 2009 **111** (2) 1063

Preparation of crosslinked chitosan by electron beam irradiation in the presence of CCl₄

Robinson-Lora MA, Brennan RA// *Pennsylvania State Univ, Dept Civil & Environm Engrn, 212 Sackett Bldg, University Park, Pa 16802, USA

Bioresour Technol 2009 **100** (2) 534

The use of crab-shell chitin for biological dentification: Batch and column tests

Sakai S, Yamada Y, Zenke T, Kawakami K// Kyushu Univ, Fac Engrn, Dept Chem Engrn, 744 Moto-oka, Nishi ku, Fukuoka 812, Japan

J Mater Chem 2009 **19** (2) 230

Novel chitosan derivative soluble at neutral pH and *in-situ* gellable via peroxidase-catalyzed enzymatic reaction

Sezer AD, Cevher E, Hatipoglu F, Ogurtan Z, Bas AL, Akbuga J// Marmara Univ, Fac Pharm, Dept Pharmaceut Biotechnol, TR-34668 Istanbul, Turkey

Biol Pharm Bull 2008 **31** (12) 2326

Preparation of fucoidan-chitosan hydrogel and its application as burn healing accelerator on rabbits

Shang J, Shao ZZ, Chen X// *Fudan Univ, Dept Macromol Sci, Advanced Materials Lab, Key Lab Mol Engrn Polymers MoE, CN-200433 Shanghai, PR China

Polymer 2008 **49** (25) 5520

Chitosan-based electroactive hydrogel

- Sun GZ, Chen XG*, Li YY, Liu CS, Liu CG, Zheng B, Gong ZH, Sun JJ, Chen H, Li J, Lin WX// *Ocean Univ China, Coll Marine Life Sci, Lab Biochem & Marine Biomaterials, 5 Yushan Rd, CN-266003 Qingdao, Peoples Rep China
Environ Eng Sci 2008 **25** (9) 1325
 Preparation and properties of amphiphilic chitosan derivative as a coagulation agent
- Szygula A, Guibal E*, Ruiz M, Sastre AM// *Ecole Mines Ales, Lab Genie Environm Ind, 6 Ave Clavieres, FR-30319 Ales, France
Colloid Surface A 2008 **330** (2-3) 219
 The removal of sulphonated azo-dyes by coagulation with chitosan
- Tang J, Hua DB*, Cheng JX, Jiang J, Zhu XL// *Suzhou Univ, Sch Chem & Chem Engn, Key Lab Organ Synth Jiangsu Province, 199 Renai Rd, CN-215123 Suzhou, Peoples Rep China
Int J Biol Macromol 2008 **43** (4) 383
 Synthesis and properties of temperature-responsive chitosan by controlled free radical polymerization with chitosan-RAFT agent
- Tsiptsias C, Panayiotou C*// *Aristotle Univ Thessaloniki, Dept Chem Engn, GR-54124 Thessaloniki, Greece
J Supercrit Fluid 2008 **47** (2) 302
 Foaming of chitin hydrogels processed by supercritical carbon dioxide
- Ugrozov VV, Artamonova SD, Shamina FF, Ivshin VP, Grunin LY, Kataeva LI// Moscow State Univ, Food Prod, Volokolamskoe sh 11, RU-125080 Moscow, Russia
Colloid J Engl Tr 2008 **70** (6) 780
 Water vapor sorption by chitin-containing materials
- Venault A, Vachoud L, Pochat C, Bouyer D, Faur C*// *Univ Montpellier 2, UMR Cirad 016 Genie Procédé Eau Bioprod, Pl Eugene Bataillon, FR-34095 Montpellier 5, France
Environ Technol 2008 **29** (12) 1285
 Elaboration of chitosan/activated carbon composites for the removal of organic micropollutants from waters
- Wang R, Xia B, Li BJ*, Peng SL, Ding LS, Zhang S// *Chinese Acad Sci, Chengdu Inst Biol, Nat Product Res Ctr, CN-610041 Chengdu, PR China
Int J Pharm 2008 **364** (1) 102
 Semi-permeable nanocapsules of konjac glucomannan-chitosan for enzyme immobilization
- Xing K, Chen XG*, Kong M, Liu CS, Cha DS, Park HJ// *Ocean Univ China, Coll Marine Life Sci, 5 Yushan Rd, CN-266003 Qingdao, Peoples Rep China
Carbohydr Polym 2009 **76** (1) 17
 Effect of oleoyl-chitosan nanoparticles as a novel antibacterial dispersion system on viability, membrane permeability and cell morphology of *Escherichia coli* and *Staphylococcus aureus*
- Zalloum HM, Al-Qodah Z, Mubarak MS*// *Univ Jordan, Fac Sci, Dept Chem, JO-11942 Amman, Jordan
J Macromol Sci Pure Appl Chem 2009 **46** (1) 46
 Copper adsorption on chitosan-derived Schiff bases

5. Cyclodextrins

- Andrade-Dias C, Lima S, Teixeira-Dias JJC*, Teixeira J// *Univ Aveiro, Dept Chem, CICECO, PT-3810-193 Aveiro, Portugal
J Phys Chem B 2008 **112** (48) 15327
 Why do methylated and unsubstituted cyclodextrins interact so differently with sodium decanoate micelles in water?
- Deng JP, Wu ZL, He QX, Yang WT// Beijing Univ Chem Technol, State Key Lab Chem Resource Engn, CN-100029 Beijing, Peoples Rep China
Polym Adv Technol 2008 **19** (11) 1649
 Photo-induced polymerization of methyl methacrylate/cyclodextrin complex in aqueous solution
- Favrelle A, Bonnet V*, Sarazin C, Djedaini-Pilard F// *Univ Picardie Jules Verne, CNRS UMR 6219, Lab Glucides, FR-80039 Amiens, France
Tetrahedron Asymmetry 2008 **19** (19) 2240
 Synthesis of polyenyl derivatives of permethylated β -cyclodextrin
- Haiyee ZA, Saim N, Said M, Illias RMD, Mustapha WAW, Hassan O*// Univ Kebangsaan Malaysia, Fac Sci & Technol, MY-43600 Bangi, Selangor, Malaysia
Food Chem 2009 **114** (2) 459
 Characterization of cyclodextrin complexes with turmeric oleoresin
- Hernandez-Pascacio J, Banquy X, Perez-Casas S, Costas M, Amigo A, Pineiro A*// *Univ Santiago de Compostela, Dept Fis Aplicada, ES-15782 Santiago de Compostela, Spain
J Colloid Interface Sci 2008 **328** (2) 391
 A small molecular size system giving unexpected surface effects: α -Cyclodextrin plus sodium dodecyl sulfate in water
- Lin B, Ng SC, Feng YQ*// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Electrophoresis 2008 **29** (19) 4045
 Chromatographic evaluation and comparison of three β -cyclodextrin-based stationary phases by capillary liquid chromatography and pressure-assisted capillary electrochromatography

- Namazi H, Kanani A// Univ Tabriz, Fac Chem, Res Lab Dendrimers & Biopolymer, IR-51666-16471 Tabriz, Iran
Carbohydr Polym 2009 **76** (1) 46
 Investigation of diffusion mechanism of β -lactam conjugated telechelic polymers of PEG and β -cyclodextrin as the new nanosized drug carrier devices
- Saavedra L, Nickerson B, Borjas RE, Lynen F, Sandra P*// *Univ Ghent, Pfizer Anal Res Ctr, Krijgslaan 281 S4 bis, BE-9000 Ghent, Belgium
J Chromatogr B 2008 **875** (1) 248
 Enantioseparation of pharmaceutical compounds by multiplexed capillary electrophoresis using highly sulphated α -, β - and γ -cyclodextrins
- Sauceau M, Rodier E, Fages J// Ecole Mines Albi-Carmaux, UMR CNRS-EMAC 2392, RAPSODEE Ctr, FR-81013 Albi, France
J Supercrit Fluid 2008 **47** (2) 326
 Preparation of inclusion complex of piroxicam with cyclodextrin by using supercritical carbon dioxide
- Uyar T, Kingshott P, Besenbacher F// Univ Aarhus, Interdisciplinary Nanosci Ctr, DK-8000 Aarhus C, Denmark
Angew Chem Int Ed 2008 **47** (47) 9108
 Electrospraying of cyclodextrin-pseudopolyrotaxane nanofibers
- Velessiotis D, Maffeo D, Millios C, Makarona E, Viswanathan C, Yannakopoulou K, Mavridis I, Pikramenou Z, Glezos N// NCSR Demokritos, Inst Microelect, Athens, Greece
Phys Status Solidi A Appl Mat 2008 **205** (11) 2532
 Molecular nanodevices based on functionalized cyclodextrins
- Yamada M, Hashimoto K// Okayama Univ Sci, Fac Sci, Dept Chem, Okayama 700 0005, Japan
Biomacromolecules 2008 **9** (12) 3341
 DNA-cyclodextrin composite material for environmental applications
- Yamaguchi S, Fujita T, Fujino T*, Korenaga T// *Tokyo Metropolitan Univ, Dept Chem, 1-1 Minami Osawa, Tokyo 192 0397, Japan
Anal Sci 2008 **24** (11) 1497
 Suppression of matrix-related ions using cyclodextrin in MALDI mass spectrometry
- Zawko SA, Truong Q, Schmidt CE*// *Univ Texas Austin, Dept Chem Engn, Austin, TX 78712, USA
J Biomed Mater Res A 2008 **87A** (4) 1044
 Drug-binding hydrogels of hyaluronic acid functionalized with β -cyclodextrin
- Zhang ZB, Zhang WG*, Luo WJ, Fan J// *South China Normal University, School Chem & Environm, CN-510006 Guangzhou, Guangdong, Peoples Rep China
J Chromatogr A 2008 **1213** (2) 162
 Preparation and enantioseparation characteristics of a novel chiral stationary phase based on mono (6^A-azido-6^A-deoxy)-per(*p*-chlorophenylcarbamoylated) β -cyclodextrin

6. Lignin

- Betancur M, Bonelli PR, Velasquez JA, Cukierman AL*// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Ind, PINMATE, AR-1428 Buenos Aires, DF, Argentina
Bioresour Technol 2009 **100** (3) 1130
 Potentiality of lignin from the Kraft pulping process for removal of trace nickel from wastewater: Effect of demineralisation
- Bose SK, Francis RC*, Govender M, Bush T, Spark A// *SUNY Coll Environm Sci & Forestry, Fac Paper & Bioprocess Engn, 1 Forestry Dr, Syracuse, NY 13210, USA
Bioresour Technol 2009 **100** (4) 1628
 Lignin content versus syringyl to guaiacyl ratio amongst poplars
- Contreras S, Gaspar AR, Guerra A, Lucia LA, Argyropoulos DS*// *Nth Carolina State Univ, Coll Nat Resources, Organ Chem Wood Components Lab, Raleigh, NC 27695, USA
Biomacromolecules 2008 **9** (12) 3362
 Propensity of lignin to associate: Light scattering photometry study with native lignins
- Klarhofer L, Roos B, Viol W, Hoff O, Dieckhoff S, Kemper V, Maus-Friedrichs W*// *Tech Univ Clausthal, Inst Phys & Phys Technol, Leibnizstr 4, DE-38678 Clausthal Zellerfeld, Germany
Holzforchung 2008 **62** (6) 688
 Valence band spectroscopy on lignin
- Leschinsky M, Zuckerstatter G, Weber HK, Patt R, Sixta H*// *Helsinki Univ Technol, Dept Forest Prod Technol, FI-02150 Espoo, Finland
Holzforchung 2008 **62** (6) 645
 Effect of autohydrolysis of *Eucalyptus globulus* wood on lignin structure. Part 1: Comparison of different lignin fractions formed during water prehydrolysis
- Leschinsky M, Zuckerstatter G, Weber HK, Patt R, Sixta H*// *Helsinki Univ Technol, Dept Forest Prod Technol, FI-02150 Espoo, Finland
Holzforchung 2008 **62** (6) 653
 Effect of autohydrolysis of *Eucalyptus globulus* wood on lignin structure. Part 2: Influence of autohydrolysis intensity

7. Lipopolysaccharides

- Kubler-Kielb J, Schneerson R, Mocca C, Vinogradov E*// *CNR, Inst Biol Sci, 100 Sussex Dr, Ottawa, Ontario, Canada K1A 0R6
Carbohydr Res 2008 **343** (18) 3123
 The elucidation of the structure of the core part of the LPS from *Plesiomonas shigelloides* serotype O17 expressing O-polysaccharide chain identical to the *Shigella sonnei* O-chain
- Panchadhayee R, Kumar Misra A*// *Cent Drug Res Inst, Med & Process Chem Div, Chattar Manzil Palace, IN-226001 Lucknow, India
Glycoconj J 2008 **25** (9) 817
 Concise synthesis of a heptasaccharide antigen found in the cell-wall lipopolysaccharide of *Mycobacterium gordonae* strain 990
- Vinogradov E, McLean LL, Brooks BW, Lutz-Wallace C, Perry MB*// *CNR, Inst Biol Sci, Ottawa, Ontario, Canada K1A 0R6
Carbohydr Res 2008 **343** (18) 3079
 The structure of the polysaccharide of the lipopolysaccharide produced by *Taylorella equigenitalis* type strain (ATCC 35865)

8. Pectin

- Bellu SE, Gonzalez JC, Garcia SI, Signorella SR*, Sala LF// *Univ NaCl-CONICET, IQUIR, Suipacha 531, AR-2002 Rosario, Santa Fe, Argentina
J Phys Org Chem 2008 **21** (12) 1059
 Kinetics and mechanism of oxidation of apple pectin by Cr-VI in aqueous acid medium
- Diano N, Grimaldi T, Bianco M, Rossi S, Gabrovskaya K, Yordanova G, Godjevargova T, Grano V, Nicolucci C, Mita L, Bencivenga U, Canciglia P, Mita DG*// *CNR, Inst Genet & Biophys ABT, Via P Castellion III, IT-8031 Naples, Italy
J Agric Food Chem 2008 **56** (23) 11471
 Apple juice clarification by immobilized pectolytic enzymes in packed or fluidized bed reactors
- Kumar R, Kumar A, Chauhan K, Gupta R, Ahn JH, Chauhan GS*// *Himachal Pradesh Univ, Dept Chem, Summer Hill, IN-171005 Shimla, India
Bioresour Technol 2009 **100** (3) 1474
 Removal of As(V) from water by pectin based active hydrogels following geochemical approach
- Ovodova RG, Golovchenko VV, Popov SV*, Popova GY, Paderin NM, Shashkov AS, Ovodov YS// *Russian Acad Sci, Urals Branch, Inst Physiol, Komi Sci Ctr, 50 Pervomaiskaya Str, RU-167982 Syktyvkar, Russia
Food Chem 2009 **114** (2) 610
 Chemical composition and anti-inflammatory activity of pectic polysaccharide isolated from celery stalks
- Sirisakulwat S, Nagel A, Sruamsiri P, Carle R, Neidhart S*// *Univ Hohenheim, Inst Food Sci & Biotechnol, DE-70599 Stuttgart, Germany
J Agric Food Chem 2008 **56** (22) 10727
 Yield and quality of pectins extractable from the peels of Thai mango cultivars depending on fruit ripeness

9. Starch

- Banchathanakij R, Suphantharika M*// *Mahidol Univ, Fac Sci, Dept Biotechnol, Rana 6 Rd, TH-10400 Bangkok, Thailand
Food Chem 2009 **114** (1) 5
 Effect of different β -glucans on the gelatinisation and retrogradation of rice starch
- Carmona-Garcia R, Sanchez-Rivera MM, Mendez-Montealvo G, Garza-Montoya B, Bello-Perez LA*// *Ctr Desarrollo Prod Biot IPN, Carr Yautepec-Jojutla km 8.5, Col San Isidro, Apdo Postal 24, MX-62731 Yautepec, Morelos, Mexico
Carbohydr Polym 2009 **76** (1) 117
 Effect of the cross-linked reagent type on some morphological, physicochemical and functional characteristics of banana starch (*Musa paradisiaca*)
- Chang PR, Ai FJ, Chen Y, Dufresne A, Huang J// Agric & Agri-Food Canada, Bioprod & Bioprocess Natl Sci Program, 107 Science Pl, Saskatoon, Saskatchewan, Canada S7N 0X2
J Appl Polym Sci 2009 **111** (2) 619
 Effects of starch nanocrystal-graft-polycaprolactone on mechanical properties of waterborne polyurethane-based nanocomposites
- Chavez-Murillo CE, Wang YJ, Bello-Perez LA*// *IPN, Ctr Desarrollo Prod Biot, Carr Yautepec-Jojutla km 8.5, Apartado Postal 24, Col San Isidro, MX-62731 Yautepec, Morelos, Mexico
Starch 2008 **60** (11) 634
 Morphological, physicochemical and structural characteristics of oxidized barley and corn starches
- Hall MB, Mertens DR// US Dairy Forage Res Ctr, Madison, WI 53706, USA
J Dairy Sci 2008 **91** (12) 4830
 Technical note: Effect of sample processing procedures on measurement of starch in corn silage and corn grain

- Hongsprabhas P, Israkarn K// Kasetsart Univ, Fac Agroind, Dept Food Sci & Technol, TH-10900 Bangkok, Thailand
Food Res Int 2008 **41** (10) 998
 New insights on the characteristics of starch network
- Huaisan K, Uriyapongson J*, Rayas-Duarte P, Alli I, Srijesdaruk V// *Khon Kaen Univ, Dept Food Technol, TH-40002 Khon Kaen, Thailand
Int J Food Prop 2009 **12** (1) 145
 Effect of food additives on rheological and textural properties of frozen high amylose rice starch gels
- Huang CC// Asia Univ, Dept Appl Life Sci, Taichung 413, Taiwan
Int J Food Sci Technol 2009 **44** (1) 50
 Physicochemical, pasting and thermal properties of tuber starches as modified by guar gum and locust bean gum
- Jayakody L, Hoover R*, Liu Q, Donner E// *Memorial Univ Newfoundland, Dept Biochem, St John's, Newfoundland, Canada A1B 3X9
Carbohydr Polym 2009 **76** (1) 145
 Studies on tuber starches III. Impact of annealing on the molecular structure, composition and physicochemical properties of yam (*Dioscorea* sp.) starches grown in Sri Lanka
- Kandylis P, Goula A, Koutinas AA*// *Univ Patras, Dept Chem, Food Biotechnol Grp, GR-26500 Patras, Greece
J Agric Food Chem 2008 **56** (24) 12037
 Corn starch gel for yeast cell entrapment. A view for catalysis of wine fermentation
- Karim AA, Sufha EH, Zaidul ISA// Univ Sains Malaysia, Sch Ind Technol, Food Biopolymer Sci Res Grp, MY-11800 Minden, Penang, Malaysia
J Agric Food Chem 2008 **56** (22) 10901
 Dual modification of starch via partial enzymatic hydrolysis in the granular state and subsequent hydroxypropylation
- Kasemwong K, Piyachomkwan K, Wansuksri R, Siroth K*// *Kasetsart Univ, Fac Agroind, Dept Biotechnol, CSTRU, TH-10900 Bangkok, Thailand
Starch 2008 **60** (11) 624
 Granule sizes of canna (*Canna edulis*) starches and their reactivity toward hydration, enzyme hydrolysis and chemical substitution
- Kim JY, Lim ST*// *Korea Univ, Sch Life Sci & Biotechnol, 5-1 Anam-dong, Sungbuk-ku, Seoul 136 701, South Korea
Carbohydr Polym 2009 **76** (1) 110
 Preparation of nano-sized starch particles by complex formation with *n*-butanol
- Kim KW, Choi SJ, Moon TW// Seoul Natl Univ, Natl Instrumentat Ctr Environm Management, Seoul 151 921, South Korea
Micron 2008 **39** (8) 1160
 Backscattered electron imaging for reduced charging of moisturized corn starch granules: Implications for versatile imagery of hygroscopic powder specimens
- Kittipongpatana O, Burapadaja S, Kittipongpatana N// Chiang Mai Univ, Fac Pharm, Dept Pharmaceut Sci, Suthep Rd, TH-50200 Chiang Mai, Thailand
Drug Develop Ind Pharm 2009 **35** (1) 34
 Carboxymethyl mungbean starch as a new pharmaceutical gelling agent for topical preparation
- Kong XL, Bertoft E, Bao JS, Corke H*// *Univ Hong Kong, Sch Biol Sci, Pokfulam Rd, Hong Kong, Peoples Rep China
Int J Biol Macromol 2008 **43** (4) 377
 Molecular structure of amylopectin from amaranath starch and its effect on physicochemical properties
- Lee SW, Kang SY, Han SH, Rhee C*// *Korea Univ, Coll Life & Environm Sci, Div Food Sci, 1-5-Ka Anam dong, Sungbuk gu, Seoul 136 701, South Korea
Eur Food Res Technol 2009 **228** (3) 449
 Influence of modification method and starch concentration on the stability and physical properties of modified potato starch as wall materials
- Luo ZG, Fu X, He XW, Luo FX, Gao QY, Yu SJ// Sth China Univ Technol, Light Ind & Food Coll, Carbohydrate Lab, CN-510640 Guangzhou, Guangdong, Peoples Rep China
Starch 2008 **60** (11) 646
 Effect of ultrasonic treatment on the physicochemical properties of maize starches differing in amylose content
- Matsushita Y, Suzuki A, Sekiguchi T, Saito K, Imai T, Fukushima K// Nagoya Univ, Grad Sch Bioagric Sci, Furo cho, Chikusa ku, Nagoya, Aichi 464 8601, Japan
Appl Surf Sci 2008 **255** (4) 1022
 Mapping of the cationic starch adsorbed on pulp fibers by ToF-SIMS
- Nwokocha LM, Williams PA*// *Glyndwr Univ, Ctr Water Soluble Polym, Plas Coch, Mold Rd, Wrexham LL11 2AW, Wales
Carbohydr Polym 2009 **76** (1) 133
 Some properties of white and yellow plantain (*Musa paradisiaca*, Normalis) starches
- Rondan-Sanabria GG, Finardi-Filho F*// *Univ Sao Paulo, Fac Ciencias Farmaceut, Dept Alimentos & Nutr Expt, Av Prof Lineu Prestes 580 - Bloco 14, BR-05508-900 Sao Paulo SP, Brazil
Food Chem 2009 **114** (2) 492
 Physical-chemical and functional properties of maca root starch (*Lepidium meyenii* Walpers)

Rosa MF, Chiou BS, Medeiros ES, Wood DF, Mattoso LHC, Orts WJ, Imam SH*// *USDA/ARS, Bioprod Chem & Engn Res Unit, WRRRC, Albany, Ca 94710, USA

J Appl Polym Sci 2009 **111** (2) 612

Biodegradable composites based on starch/EVOH/glycerol blends and coconut fibers

Ruan H, Chen Q, Fu M, Xu Q, He G*// *Zhejiang Univ, Dept Food Sci & Nutr, Kaixuan Rd 268, CN-310029 Hangzhou, Peoples Rep China

Food Chem 2009 **114** (1) 81

Preparation and properties of octenyl succinic anhydride modified potato starch

Shiga TM, Cordenunsi BR, Lajolo FM*// *Univ Sao Paulo, FCF, Dept Alimentos & Nutr Expt, Lab Quim Bioquim & Biol Mol Alimentos, Avenida Lineu Prestes 580, Bloco 14, BR-05508-900 Sao Paulo, SP, Brazil

Carbohydr Polym 2009 **76** (1) 100

Effect of cooking on non-starch polysaccharides of hard-to-cook beans

Simi CK, Abraham TE*// *CSIR, NIIST, Chem Sci & Technol Div, Thiruvananthapuram, Kerala, India

J Agric Food Chem 2008 **56** (24) 12105

Physicochemical rheological and thermal properties of njavara rice (*Oryza sativa*) starch

Singh M, Byars JA// USDA/ARS, Natl Ctr Agric Utilization Res, Cereal Prod & Food Sci Res Unit, 1815 Nth University St, Peoria, IL 61604, USA

Int J Food Sci Technol 2009 **44** (1) 106

Starch-lipid composites in plain set yogurt

Vieira AP, Ferreira P, Coelho JFJ, Gil MH*// *Univ Coimbra, Dept Engn Quim, Polo 2, Pinhal Marrocos, PT-3030-290 Coimbra, Portugal

Int J Biol Macromol 2008 **43** (4) 325

Photocrosslinkable starch-based polymers for ophthalmic drug delivery

Wang N, Zhang X, Han N, Bai S// Tianjin Polytech Univ, Inst Funct Fibers, Tianjin Municipal Key Lab Fiber Modification & Funct Fiber, Chenglin Rd 63, CN-300160 Tianjin, Peoples Rep China

Carbohydr Polym 2009 **76** (1) 68

Effect of citric acid and processing on the performance of thermoplastic starch/montmorillonite nanocomposites

Wang YX, Zhang LN*// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

J Nanosci Nanotechnol 2008 **8** (11) 5831

High-strength waterborne polyurethane reinforced with waxy maize starch nanocrystals

Wittrock E, Jiang H, Campbell M, Campbell M*, Jane JL, Anih E, Wang YJ// *Truman State University, Div Sci, 100 East Normal, Kirksville, Mo 63501, USA

Starch 2008 **60** (11) 601

A simplified isolation of high-amylose maize starch using neutral proteases

Wu YS, Frijlink HW, Van Vliet LJ, Maarschalk KV// Solvay Pharmaceuticals, Bldg WNH, CJ Van Houtenlaan 36, NL-1381 CP Weesp, The Netherlands

Eur J Pharm Biopharm 2008 **70** (2) 539

Pore shape in the sodium chloride matrix of tablets after the addition of starch as a second component

Xu XL, Li HQ, Zhang ZD, Qi X// Natl Inst Metrol, Dept R&D & Planning, CN-100013 Beijing, Peoples Rep China

J Appl Polym Sci 2009 **111** (3) 1523

Hydrodynamic properties of aqueous dextrin solutions

Zarguili I, Maache-Rezzoug Z*, Loisel C, Doublier JL// *Univ Rochelle, Lab LMTAI, Ave M Crepeau, FR-17042 La Rochelle, France

Int J Food Sci Technol 2009 **44** (1) 10

A mathematical model to describe the change in moisture distribution in maize starch during hydrothermal treatment

Zhang JS, Chang PR, Wu Y, Yu JG*, Ma XF// *Tianjin Univ, Sch Sci, CN-300072 Tianjin, Peoples Rep China

Starch 2008 **60** (11) 617

Aliphatic amide diol and glycerol as a mixed plasticizer for the preparation of thermoplastic starch

Zhu F, Cai YZ, Sun M, Corke H*// *Univ Hong Kong, Sch Biol Sci, Pokfulam Rd, Hong Kong, Peoples Rep China

Starch 2008 **60** (11) 609

Effect of phenolic compounds on the pasting and textual properties of wheat starch

10. Starch-degrading enzymes

Bijttebier A, Goesaert H, Delcour JA// Food Chem Lab, Kasteelpk Arenberg 20, BE-3001 Louvain, Belgium

Biologia 2008 **63** (6) 989

Amylase action pattern on starch polymers

Evans DE// Univ Tasmania, TIAR, Private Bag 54, Hobart, Tas 7001, Australia

J Am Soc Brew Chemist 2008 **66** (4) 215

A more cost- and labor-efficient assay for the combined measurement of the diastatic power enzymes β -amylase, α -amylase, and limit dextrinase

Evans DE, Li CD, Eglinton JK// Univ Tasmania, TIAR, Private Bag 54, Hobart, Tas 7001, Australia

J Am Soc Brew Chemist 2008 **66** (4) 223

Improved prediction of malt fermentability by measurement of the diastatic power enzymes β -amylase, α -amylase, and limit dextrinase: I. Survey of the levels of diastatic power enzymes in commercial malts

Karlsson EN, Labes A, Turner P, Fridjonsson OH, Wennerberg C, Pozzo T, Hreggvidson GO, Kristjansson JK, Schonheit P// Lund Univ, Dept Biotechnol, POB 124, SE-22100 Lund, Sweden

Biologia 2008 **63** (6) 1006

Differences and similarities in enzymes from the neopullulanase subfamily isolated from thermophilic species

11. Polysaccharides - Microbial

Capek P, Dudikova J, Matulova M, Kolarova N// Slovak Acad Sci, Inst Chem, Ctr Glycomics, SK-84538 Bratislava, Slovakia

Int J Biol Macromol 2008 **43** (4) 394

An extracellular galactoxylomannan of acapsular *Cryptococcus laurentii* mutant

Freitas F, Alves VD, Pais J, Costa N, Oliveira C, Mafra L, Hilliou L, Oliveira R, Reis MAM*// *Univ Nova Lisboa, FCT, Dept Chem, ReQuimTe, CQFB, PT-2829-516 Caparica, Portugal

Bioresour Technol 2009 **100** (2) 859

Characterization of an extracellular polysaccharide produced by a *Pseudomonas* strain grown on glycerol

Ge Q, Zhang AQ, Sun PL*// *Zhejiang Univ Technol, Coll Biol & Environm Engr, CN-310014 Hangzhou, Peoples Rep China

Food Chem 2009 **114** (2) 391

Structural investigation of a novel water-soluble heteropolysaccharide from the fruiting bodies of *Phellinus baumii* Pilat

Kaditzky S, Vogel R*// *Tech Univ Munich, Weihenstephanersteig 16, DE-85350 Freising, Germany

Eur Food Res Technol 2008 **228** (2) 291

Optimization of exopolysaccharide yields in sourdoughs fermented by lactobacilli

Ketabi A, Soleimani-Zad S, Kadivar M, Sheikh-Zeinoddin M*// *Isfahan Univ Technol, Coll Agric, Dept Food Sci & Technol, POB 84156, Isfahan, Iran

Food Res Int 2008 **41** (10) 948

Production of microbial exopolysaccharides in the sourdough and its effects on the rheological properties of dough

Nandan CK, Patra P, Bhanja SK, Adhikari B, Sarkar R, Mandal S, Islam SS*// *Vidyasagar Univ, Dept Chem & Chem Technol, IN-721102 Midnapore, India

Carbohydr Res 2008 **343** (18) 3120

Structural characterization of a water-soluble β -(1 $\rightarrow$ 6)-linked D-glucan isolated from the hot water extract of an edible mushroom, *Agaricus bitorquis*

Nichifor M, Bastos M, Lopes S, Lopes A// Petru Poni Inst Macromol Chem, Alea Grigore Ghica Voda 41 A, RO-700487 Iasi, Romania

J Phys Chem B 2008 **112** (49) 15554

Characterization of aggregates formed by hydrophobically modified cationic dextran and sodium alkyl sulfates in salt-free aqueous solutions

Purama RK, Goswami P, Khan AT, Goyal A*// *Indian Inst Technol Guwahati, Dept Biotechnol, IN-781039 Guwahati, Assam, India

Carbohydr Polym 2009 **76** (1) 30

Structural analysis and properties of dextran produced by *Leuconostoc mesenteroides* NRRL B-640

Robyt JF, Yoon SH, Mukerjee R// Iowa State Univ, Dept Biochem Biophys & Mol Biol, Lab Carbohydrate Chem & Enzymol, Ames, Ia 50011, USA

Carbohydr Res 2008 **343** (18) 3039

Dextranase and the mechanism for dextran biosynthesis

Rodriguez-Carvajal MA, Sanchez JI, Campelo AB, Martinez B, Rodriguez A, Gil-Serrano AM// Univ Seville, Dept Organ Chem, ES-41012 Seville, Spain

Carbohydr Res 2008 **343** (18) 3066

Structure of the high-molecular weight exopolysaccharide isolated from *Lactobacillus pentosus* LPS26

Saburi W, Hondoh H, Kim YM, Mori H, Okuyama M, Kimura A// Hokkaido Univ, Res Fac Agric, Sapporo, Hokkaido 060 858, Japan

Biologia 2008 **63** (6) 1000

Structure-function relationship of substrate length specificity of dextran glucosidase from *Streptococcus mutans*

Smiderle FR, Olsen LM, Carbonero ER, Baggio CH, Freitas CS, Marcon R, Santos ARS, Gorin PAJ, Iacomini M*// *Univ Fed Parana, Dept Bioquim & Biol Mol, CP 19046, BR-81531-980 Curitiba, Parana, Brazil

Eur J Pharmacol 2008 **597** (1-3) 86

Anti-inflammatory and analgesic properties in a rodent model of a (1 $\rightarrow$ 3),(1 $\rightarrow$ 6)-linked β -glucan isolated from *Pleurotus pulmonarius*

Sun YX, Liu JC// Qiqihar Med Univ, Dept Pharmacol, CN-161042 Qiqihar, Peoples Rep China

Bioresour Technol 2009 **100** (2) 983

Purification, structure and immunobiological activity of a water-soluble polysaccharide from the fruiting body of *Pleurotus ostreatus*

Tada R, Tanioka A, Iwasawa H, Hatashima K, Shoji Y, Ishibashi KI, Adachi Y, Yamazaki M, Tsubaki K, Ohno N*// *Tokyo Univ Pharm & Life Sci, Sch Pharm, Lab Immunopharmacol, 1432-1 Horinouchi, Hachioji, Tokyo 192 0392, Japan

Glycoconj J 2008 **25** (9) 851

Structural characterization and biological activities of a unique type β -D-glucan obtained from *Aureobasidium pullulans*

Wu S, Jin Z*, Kim JM, Tong Q, Chen H// *Jiangnan Univ, Sch Food Sci & Technol, 1800 Lihu Rd, CN-214122 Wuxi, Peoples Rep China

Carbohydr Polym 2009 **76** (1) 129

Graft copolymerization of methyl acrylate onto pullulan using ceric ammonium nitrate as initiator

Yu MY, Xu XY, Qing Y, Luo X, Yang ZR, Zheng LY*// *Sichuan Univ, Coll Life Sci, CN-610064 Chengdu, Peoples Rep China

Eur Food Res Technol 2009 **228** (3) 477

Isolation of an anti-tumor polysaccharide from *Auricularia polytricha* (jew's ear) and its effects on macrophage activation

12. Polysaccharides - Plant

Ahmad A, Anjum FM, Zahoor T, Nawaz H, Din A// Univ Arid Agric Rawalpindi, Dept Food Technol, Muree Rd, PK-46300 Rawalpindi, Pakistan

Int J Food Sci Technol 2009 **44** (1) 181

Physicochemical and functional properties of barley β -glucan as affected by different extraction procedures

Bahulikar RA, Kroth PG// Univ Bremen, Fachbereich Biol Chem, AG Reinhold, Postfach 330440, DE-28334 Bremen, Germany

J Phycol 2008 **44** (6) 1465

The complex extracellular polysaccharides of mainly chain-forming freshwater diatom species from epilithic biofilms

Barabanova A, Shashkov A, Glazunov V, Isakov V, Nebylovskaya T, Helbert W, Solov'eva T, Yermak I// Russian Acad Sci, Far East Branch, Pacific Inst Bioorgan Chem, RU-690022 Vladivostok, Russia

J Appl Phycol 2008 **20** (6) 1013

Structure and properties of carrageenan-like polysaccharide from the red alga *Tichocarpus crinitus* (Gmel.) Rupr. (Rhodophyta, Tichocarpaceae)

Barbucci R, Pasqui D, Favaloro R, Panariello G// Univ Siena, CRISMA, Via A Moro 2, IT-53100 Siena, Italy

Carbohydr Res 2008 **343** (18) 3058

A thixotropic hydrogel from chemically cross-linked guar gum: Synthesis, characterization and rheological behaviour

Bessadok A, Langevin D*, Gouanve F, Chappey C, Roudesli S, Marais S// *FRE 3101 Univ Rouen/CNRS, UFR Sci, Lab Polym Biopolym Surfaces, FR-76821 Mont-Saint-Aignan, France

Carbohydr Polym 2009 **76** (1) 74

Study of water sorption on modified Agave fibres

Bouchez T, Patureau D, Delgenes JP, Moletta R// Cemagref, UR HBAN, Parc Tourvoie, BP 44, FR-92163 Antony, France

Bioresour Technol 2009 **100** (2) 1031

Successful bacterial incorporation into activated sludge flocs using alginate

Cassolato JEF, Noseda MD, Pujolb CA, Pellizzaric FM, Damonte EB, Duarte MER*// *Univ Fed Parana, Dept Bioquim & Biol Mol, POB 19046, BR-81531-990 Curitiba, Parana, Brazil

Carbohydr Res 2008 **343** (18) 3085

Chemical structure and antiviral activity of the sulfated heterorhamnan isolated from the green seaweed *Gayralia oxysperma*

Changotade SIT, Korb G, Bassil J, Barroukh B, Willig C, Collicec-Jouault S, Durand P, Godeau G*, Senni K// *Univ Paris Descartes, Fac Chirurg Dent Montrouge, Lab Physiopathol Tissus Non Mineralises, Paris, France

J Biomed Mater Res A 2008 **87A** (3) 666

Potential effects of a low-molecular-weight fucoidan extracted from brown algae on bone biomaterial osteoconductive properties

Chattopadhyay K, Ghosh T, Pujol CA, Carlucci MJ, Damonte EB, Ray B*// *Univ Burdwan, Dept Chem, Nat Prod Lab, IN-713104 Burdwan, India

Int J Biol Macromol 2008 **43** (4) 346

Polysaccharides from *Gracilaria corticata*: Sulfation, chemical characterization and anti-HSV activities

Chen J, Liu MZ*, Jin SP, Liu HL// *Lanzhou Univ, Dept Chem, CN-730000 Lanzhou, Peoples Rep China

Polym Adv Technol 2008 **19** (11) 1656

Synthesis and characterization of κ -carrageenan/poly(*N,N*-diethylacrylamide) semi-interpenetrating polymer network hydrogels with rapid response to temperature

Chen T, Wong YS*, Zheng W, Bai Y, Huang L// *Chinese University Hong Kong, Department Biol, Ctr Sci, Mai Lin Bldg, Shatin, Hong Kong, Peoples Rep China

Colloid Surface B 2008 **67** (1) 26

Selenium nanoparticles fabricated in *Undaria pinnatifida* polysaccharide solutions induce mitochondria-mediated apoptosis in A375 human melanoma cells

Chenlo F, Moreira R*, Pereira G, Silva C// *Univ Santiago de Compostela, ETSE, Dept Enxenaria Quim, Rua Lope Gomez Marzoa s/n, ES-15782 Santiago de Compostela, Spain

LWT Food Sci Technol 2009 **42** (2) 519

Rheological modelling of binary and ternary systems of tragacanth, guar gum and methylcellulose in dilute range of concentration at different temperatures

Fernandes LP, Oliveira WP, Sztatisz J, Novak C*// *Budapest Univ Technol & Econ, Res Grp Tech Anal Chem, St Gellert ter 4, HU-1111 Budapest, Hungary

J Therm Anal Calorim 2008 **94** (2) 461

Thermal properties and release of *Lippia sidoides* essential oil from gum arabic/maltodextrin microparticles

Fijan R, Basile M, Sostar-Turk S, Zagar E, Zigon M, Lapasin R// Univ Maribor, Fac Mech Engn, Inst Engn Materials & Design, Smetanova ulica 17, SI-2000 Maribor, Slovenia

Carbohydr Polym 2009 **76** (1) 8

A study of rheological and molecular weight properties of recycled polysaccharides used as thickeners in textile printing

Ghotra BS, Vasanthan T*, Temelli F// *Univ Alberta, Dept Agric Food & Nutr Sci, 4-10 Ag/For Ctr, Edmonton, Alberta, Canada T6G 2P5

Food Res Int 2008 **41** (10) 957

Structural characterization of barley β -glucan extracted using a novel fractionation technique

Gideon TP, Rengasamy R*// *Univ Chennai, Ctr Advanced Studies Bot, Guindy Campus, IN-600025 Chennai, India

J Med Food 2008 **11** (4) 638

Toxicological evaluation of fucoidan from *Cladosiphon okamuranus*

Guggisberg D, Cuthbert-Steven J, Piccinah P, Butikofer U, Eberhard P// Agroscope Liebefeld-Posieux Res Stn, Schwarzenburgstr, CH-3003 Bern, Switzerland

Int Dairy J 2009 **19** (2) 107

Rheological, microstructural and sensory characterization of low-fat and whole milk set yoghurt as influenced by inulin addition

Guttieri MJ, Souza EJ*, Sneller C// *USDA/ARS, Soft Wheat Qual Lab, Wooster, Oh 44691, USA

J Agric Food Chem 2008 **56** (22) 10927

Nonstarch polysaccharides in wheat flour wire-cut cookie making

Heilig A, Gogerle A, Hinrichs J// Univ Hohenheim, Inst Food Sci & Biotechnol, Dept Anim Foodstuff Technol, Garbenstr 21, DE-70599 Stuttgart, Germany

LWT Food Sci Technol 2009 **42** (2) 646

Multiphase visualisation of fat containing β -lactoglobulin- κ -carrageenan gels by confocal scanning laser microscopy, using a novel dye, V03-01136, for fat staining

Kanauchi M, Bamforth CW*// *Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA

J Inst Brew 2008 **114** (3) 224

The relevance of different enzymes for the hydrolysis of β -glucans in malting and mashing

Kurozawa LE, Park KJ, Hubinger MD// Univ Estadual Campinas, Dept Food Engn, Street Monteiro Lobato 80, POB 6121, BR-13083-970 Campinas, Brazil

J Food Eng 2009 **91** (2) 287

Effect of maltodextrin and gum arabic on water sorption and glass transition temperature of spray dried chicken meat hydrolysate protein

Lee S, Biresaw G, Kinney MP, Inglett GE// Sejong Univ, Dept Food Sci & Technol, Carbohydrate Bioproduct Res Ctr, Seoul 143 747, South Korea

J Sci Food Agric 2009 **89** (1) 163

Effect of cocoa butter replacement with a β -glucan-rich hydrocolloid (C-trim30) on the rheological and tribological properties of chocolates

Lee SH, Athukorala Y, Lee JS, Jeon YJ*// *Cheju Natl Univ, Fac Appl Marine Sci, Cheju 690 756, South Korea

J Appl Phycol 2008 **20** (6) 1053

Simple separation of anticoagulant sulfated galactan from marine red algae

Modi VK, Yashoda KP, Naveen SK// Cent Food Technol Res Inst, IN-570020 Mysore, India

Int J Food Prop 2009 **12** (1) 228

Effect of carrageenan and oat flour on quality characteristics of meat kofta

Paseephol T, Small DM, Sherkat F*// *RMIT Univ, Sch Appl Sci Food Sci, GPO Box 2476V, Melbourne, Vic 3001, Australia

J Texture Stud 2008 **39** (6) 617

Rheology and texture of set yogurt as affected by inulin addition

Pasut E, Toffanin R, Voinovich D, Pedersini C, Murano E, Grassi M*// *Univ Trieste, Dept Chem Engn, Piazzale Europa 1, IT-34127 Trieste, Italy

J Biomed Mater Res A 2008 **87A** (3) 808

Mechanical and diffusive properties of homogeneous alginate gels in form of particles and cylinders

Rodriguez MC, Matulewicz MC*, Noseda MD, Ducatti DRB, Leonardi PI// *Univ Buenos Aires/CONICET, Fac Ciencias Exactas & Nat, Dept Quim Organ CIHIDECAR, AR-1428 Buenos Aires, DF, Argentina

Bioresour Technol 2009 **100** (3) 1435

Agar from *Gracilaria gracilis* (Gracilariales, Rhodophyta) of the Patagonic coast of Argentina—content, structure and physical properties

- Samhouri M, Abu-Ghoush M*, Yaseen E, Herald T// *Hashemite Univ, Clin Nutr & Dietet Dept, POB 330156, JO-13133 Zarqa, Jordan
J Food Eng 2009 **91** (1) 10
 Fuzzy clustering-based modeling of surface interactions and emulsions of selected whey protein concentrate combined to α -carrageenan and gum arabic solutions
- Savitha S, Sadhasivam S, Swaminathan K// Natl Taiwan Univ, Coll Engn, Inst Biomed Engn, Taipei 10764, Taiwan
Bioresour Technol 2009 **100** (2) 883
 Modification of paper properties by the pretreatment of wastepaper pulp with *Graphium putredinis*, *Trichoderma harzianum* and fusant xylanases
- Shi J, Liu LH, Liu XP, Sun XM, Cao SK*// *Zhengzhou Univ, Sch Materials Sci & Engrn, CN-450052 Zhengzhou, Peoples Rep China
Polym Adv Technol 2008 **19** (11) 1467
 Inorganic-organic hybrid alginate beads with LCST near human body temperature for sustained dual-sensitive drug delivery
- Shobha MS, Tharanathan RN*// *Cent Food Technol Res Inst, Dept Biochem & Nutr, IN-570020 Mysore, India
J Agric Food Chem 2008 **56** (22) 10858
 Nonspecific activity of *Bacillus acidopullulyticus* pullulanase on debranching of guar galactomannan
- Singh V, Tripathi DN, Malviya T, Sanghi R// Univ Allahabad, Dept Chem, IN-211002 Allahabad, India
J Appl Polym Sci 2009 **111** (1) 539
 Persulfate/ascorbic acid initiated synthesis of poly(acrylonitrile)-grafted tamarind seed gum: A potential commercial gum
- Song T, Pranovich A*, Sumerskly I, Holmbom B// *Abo Akad University, Laboratory Wood & Paper Chem, Proc Chem Ctr, Porthansgatan 3, FI-20500 Turku, Finland
Holzforchung 2008 **62** (6) 659
 Extraction of galactoglucomannan from spruce wood with pressurised hot water
- Tsubaki S, Iida H, Sakamoto M, Azuma JI// Kyoto Univ, Grad Sch Agric, Div Environm Sci & Technol, Sakyo ku, Kyoto 606 8502, Japan
J Agric Food Chem 2008 **56** (23) 11293
 Microwave heating of tea residue yields polysaccharides, polyphenols, and plant biopolyester
- Van Craeyveld V, Delcour JA, Courtin CM*// *Katholieke University Leuven, Laboratory Food Chem & Biochem, Kasteelpk Arenberg 20, BE-3001 Leuven, Belgium
J Agric Food Chem 2008 **56** (23) 11306
 Ball milling improves extractability and affects molecular properties of psyllium (*Plantago ovata* Forsk) seed husk arabinoxylan
- Vanhaecke M, Van den Ende W*, Lescrinier E, Dyubankova N// *Katholieke Univ Leuven, Inst Bot & Microbiol, Lab Mol Plant Physiol, Kasteelpark Arenberg 31, BE-3001 Heverlee, Belgium
J Nat Prod 2008 **71** (11) 1833
 Isolation and characterization of a pentasaccharide from *Stellaria media*
- Vauchel P, Leroux K, Kaas R, Arhaliass A, Baron R, Legrand J// IFREMER, Dept Sci & Tech Alimentaires Marines, rue Ile Yeu, BP21105, FR-44311 Nantes 03, France
Bioresour Technol 2009 **100** (3) 1291
 Kinetics modeling of alginate alkaline extraction from *Laminaria digitata*
- Vendruscolo CW, Ferrero C, Pineda EAG, Silveira JLM, Freitas RA, Jimenez-Castellanos MR, Bresolin TMB*// *Univ do Vale do Itajai - UNIVALI, Program Mestrado Ciencias Farmaceut, Nucl Investigacoes Quim-Farmaceut, CP 360, BR-88302-202 Itajai, Santa Catarina, Brazil
Carbohydr Polym 2009 **76** (1) 86
 Physicochemical and mechanical characterization of galactomannan from *Mimosa scabrella*: Effect of drying method
- Wang CH, Hsu YS, Peng CA*// *Natl Taiwan Univ, Dept Chem Engrn, 1 Sect 4 Roosevelt Rd, Taipei 106, Taiwan
Biosens Bioelectron 2008 **24** (4) 1012
 Quantum dots encapsulated with amphiphilic alginate as bioprobe for fast screening anti-dengue virus agents
- Yang B, Zhao M, Jiang Y*// *Chinese Acad Sci, South China Bot Garden, S-510650 Guangzhou, Peoples Rep China
Food Chem 2009 **114** (2) 629
 Anti-glycated activity of polysaccharides of longan (*Dimocarpus longan* Lour.) fruit pericarp treated by ultrasonic wave
- Yin YQ, Huang XF, Kong LY*, Niwa M// *China Pharmaceut University, Dept Nat Med Chem, 24 Tong Jia Xiang, CN-210009 Nanjing, Jiangsu, Peoples Rep China
Chem Pharm Bull Tokyo 2008 **56** (12) 1670
 Three new pentasaccharide resin glycosides from the roots of sweet potato (*Ipomoea batatas*)
- Zhang YJ, Wei Q, Yi CB, Hu CY, Zhao WF, Zhao CS*// *Sichuan Univ, Coll Polymer Sci & Engrn, State Key Lab Polymer Materials Engrn, CN-610065 Chengdu, Peoples Rep China
J Appl Polym Sci 2009 **111** (2) 651
 Preparation of polyethersulfone-alginate microcapsules for controlled release

13. Polysaccharides - Other

- Bao HQ, Li L*, Gan LH, Zhang HB// *Nanyang Technol Univ, Sch Mech & Aerospace Engrn, 50 Nanyang Ave, SG-639798 Singapore, Rep Singapore
Macromolecules 2008 **41** (23) 9406
 Interactions between ionic surfactants and polysaccharides in aqueous solutions
- Besenius P, Slavin S, Vilela F, Sherrington DC// Univ Strathclyde, Dept Pure & Appl Chem, WestCHEM, 295 Cathedral St, Glasgow G1 1XL, Scotland
React Funct Polym 2008 **68** (11) 1524
 Synthesis and characterization of water-soluble densely branched glycopolymers
- Ding B, Ye YQ, Cheng JC, Wang K, Luo JH, Jiang B*// *Sichuan Univ, MoE Key Lab Green Chem & Technol, CN-610064 Chengdu, Peoples Rep China
Carbohydr Res 2008 **343** (18) 3112
 TEMPO-mediated selective oxidation of substituted polysaccharides—an efficient approach for the determination of the degree of substitution at C-6
- Domnina YA, Yeo Y, Tse JY, Bellas E, Kohane DS*// *Childrens Hosp, Lab Biomaterials & Drug Delivery, 300 Longwood Ave, Boston, Ma 02115, USA
J Biomed Mater Res A 2008 **87A** (3) 825
 Spray-dried lipid-hyaluronan-polymethacrylate microparticles for drug delivery in the peritoneum
- Ducel V, Pouliquen D, Richard J, Boury F*// *INSERM U646, 10 rue A Boquel, FR-49100 Angers, France
Int J Biol Macromol 2008 **43** (4) 359
¹H NMR relaxation studies of protein-polysaccharide mixtures
- Franco P, Zhang T// Chiral Technol Europe, Parc Innovation, Blvd Gonther Andernach, BP 80140, FR-67404 Illkirch, France
J Chromatogr B 2008 **875** (1) 48
 Common approaches for efficient method development with immobilized polysaccharide-derived chiral stationary phases
- Liu CH, Xi T, Lin QX, Xing YY, Ye L, Luo XG, Wang FS// Shandong Univ, Sch Pharmaceut Sci, Inst Biochem & Biotechnol Drugs, 44 Wenhua West Rd, CN-250012 Jinan, Peoples Rep China
Int Immunopharmacol 2008 **8** (13-14) 1835
 Immunomodulatory activity of polysaccharides isolated from *Strongylocentrotus nudus* eggs
- Matuda TG, Chevallier S, Pessoa PD, LeBail A, Tadini CC*// *Univ Sao Paulo, Escola Politecn, Food Engrn Lab, POB 61548, BR-05424-970 Sao Paulo, Brazil
J Cereal Sci 2008 **48** (3) 741
 Impact of guar and xanthan gums on proofing and calorimetric parameters of frozen bread dough
- Pitarresi G, Palumbo FS, Cavallaro G, Fare S, Giammona G// Univ Palermo, Dipt Chim & Tecnol Farmaceut, Via Archirafi 32, IT-90123 Palermo, Italy
J Biomed Mater Res A 2008 **87A** (3) 770
 Scaffolds based on hyaluronan crosslinked with a polyaminoacid: Novel candidates for tissue engineering application
- Ropers MH, Novales B, Boue F, Axelos MAV// INRA, BP 71627, FR-44316 Nantes 3, France
Langmuir 2008 **24** (22) 12849
 Polysaccharide/surfactant complexes at the air-water interface - Effect of the charge density on interfacial and foaming behaviors
- Suarez N, Massaldi H, Fraguas LF, Ferreira F*// *Inst Higiene, Fac Med Quim, Dept Desarrollo Biotecnol & Div Prod, Montevideo, Uruguay
J Chromatogr A 2008 **1213** (2) 169
 Improved conjugation and purification strategies for the preparation of protein-polysaccharide conjugates
- Sugikawa K, Numata M, Kaneko K, Sada K, Shinkai S*// *Kyushu Univ, Grad Sch Engrn, 203-1 Moto-oka, Nishi ku, Fukuoka 819 0385, Japan
Langmuir 2008 **24** (23) 13270
 Alternate layer-by-layer adsorption of single- and double-walled carbon nanotubes wrapped by functionalized β -1,3-glucan polysaccharides
- Tao YZ, Xu WL// Wuhan Univ Sci & Engrn, MoE Key Lab Green Process & Funct Textiles New Textile Materials, CN-430073 Wuhan, Peoples Rep China
Carbohydr Res 2008 **343** (18) 3071
 Microwave-assisted solubilization and solution properties of hyperbranched polysaccharide
- Thunberg L, Hashemi J, Andersson S*// *AstraZeneca R&D Molndal, Med Chem, SE-43183 Molndal, Sweden
J Chromatogr B 2008 **875** (1) 72
 Comparative study of coated and immobilized polysaccharide-based chiral stationary phases and their applicability in the resolution of enantiomers
- Tong QY, Xiao Q, Lim LT*// *Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1
Food Res Int 2008 **41** (10) 1007
 Preparation and properties of pullulan-alginate-carboxymethylcellulose blend films
- Yu HM, Stephanopoulos G*// *MIT, Dept Chem Engrn, Cambridge, Ma 02139, USA
Metab Eng 2008 **10** (1) 24
 Metabolic engineering of *Escherichia coli* for biosynthesis of hyaluronic acid