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Carbohydrate Polymers
www.elsevier.com/locate/carbpol

Bibliography of carbohydrate polymers

(4 weeks journals. Search completed at 20th. Feb. 2008)

1. Reviews

J Nutr 2007 **137** (11)
Special supplement to issue II: Inulin and oligofructose: Health benefits and claims - A critical review (20 papers)

Jain A, Gupta Y, Jain SK*// *Dr Hari Singh Gour Vishwavidyalaya, Department Pharmaceutical Science, Pharmaceutics Research Projects Lab, IN-470003 Sagar, India
J Pharm Pharm Sci 2007 **10** (1) 86
Perspectives of biodegradable natural polysaccharides for site-specific drug delivery to the colon

Li ZF, Wang M, Wang F, Gu ZB, Du GC, Wu J, Chen J*// *Jiangnan Univ, State Key Lab Food Sci & Technol, 1800 Lihu Ave, CN-214122 Wuxi, Peoples Rep China
Appl Microbiol Biotechnol 2007 **77** (2) 245
γ-Cyclodextrin: A review on enzymatic production and applications

Loftsson T, Vogensen SB, Brewster ME, Konradsdottir F// Univ Iceland, Fac Pharm, Hofsvallagata 53, IS-107 Reykjavik, Iceland
J Pharm Sci 2007 **96** (10) 2532
Effects of cyclodextrins on drug delivery through biological membranes

Srinivas T// Cent Tuber Crops Res Inst, Sect Social Sci, IN-695017 Thiruvananthapuram, Kerala, India
Starch 2007 **59** (10) 477
Industrial demand for cassava starch in India

Stern R, Kogan G*, Jedrzejas MJ, Soltes L// *European Commission, Directorate Gen Res, BE-1050 Brussels, Belgium
Biotechnol Adv 2007 **25** (6) 537
The many ways to cleave hyaluronan

Wistrand I, Lingstrom R, Wagberg L// STFI Packforsk AB, Box 5604, SE-11486 Stockholm, Sweden
Eur Polym J 2007 **43** (10) 4075
Preparation of electrically conducting cellulose fibres utilizing polyelectrolyte multilayers of poly (3,4-ethylenedioxythiophene):poly(styrene sulphonate) and poly(allyl amine)

2. Cellulose

Abe K, Iwamoto S, Yano H// Kyoto Univ, Res Inst Sustainable Humanosphere, Uji, Japan
Biomacromolecules 2007 **8** (10) 3276
Obtaining cellulose nanofibers with a uniform width of 15 nm from wood

Baltazar-y-Jimenez A, Bismarck A// Imperial Coll London, Dept Chem Engn, Polymer & Composite Engn PaCE Grp, London SW7 2AZ, England
Green Chem 2007 **9** (10) 1057
Surface modification of lignocellulosic fibres in atmospheric air pressure plasma

Barsbay M, Guven G*, Stenzel MH, Davis TP, Barner-Kowollik C, Barner L// *Univ New Sth Wales, Sch Chem Sci & Engn, Ctr Adv Macromol Design, Sydney, NSW 2052, Australia
Macromolecules 2007 **40** (20) 7140
Verification of controlled grafting of styrene from cellulose *via* radiation-induced RAFT polymerization

Brown EE, Laborie MPG*// *Washington State Univ, Wood Materials & Engn Lab, POB 641806, Pullman, Wa 99164, USA
Biomacromolecules 2007 **8** (10) 3074
Bioengineering bacterial cellulose/poly(ethylene oxide) nanocomposites

Calafell M, Diaz C, Hadzhiyska H, Gibert JM, Daga JM, Tzanov T*// *Univ Politecn Cataluna, Dept Engn Quim, ES-08222 Terrassa, Spain
Biocatal Biotransform 2007 **25** (2-4) 336
Bio-catalyzed coloration of cellulose fibers

Charoenthai N, Kleinebudde P, Puttipipatkhachorn S*// *Mahidol Univ, Fac Pharm, Dept Mfg Pharm, Sri Ayudhya Rd, TH-10400 Bangkok, Thailand
J Pharm Sci 2007 **96** (9) 2469
Use of chitosan-alginate as alternative pelletization aid to microcrystal line cellulose in extrusion/spheronization

Chen CZ, Wang L*, Huang Y// *Chinese Acad Sci, Guangzhou Inst Chem, Key Lab Cellulose & Lignocellulose, CN-510650 Guangzhou, Peoples Rep China
Polymer 2007 **48** (18) 5202
Electrospinning of thermo-regulating ultrafine fibers based on polyethylene glycol/cellulose acetate composite

Cunha AG, Freire CSR*, Silvestre AJD, Neto CP, Gandini A, Orblin E, Fardim P// *Univ Aveiro, Dept Chem, CICECO, Campus Santiago, PT-3810-193 Aveiro, Portugal
Langmuir 2007 **23** (21) 10801
Bi-phobic cellulose fibers derivatives *via* surface trifluoropropanoylation

Davaran S, Rashidi MR, Khani A// Tabriz Univ Med Sci, Res Ctr Pharmaceut Nanotechnol, Tabriz, Iran
Drug Develop Ind Pharm 2007 **33** (8) 881
Synthesis of chemically cross-linked hydroxypropyl methyl cellulose hydrogels and their application in controlled release of 5-amino salicylic acid

Dou H, Jiang M// Shanghai Jiao Tong Univ, Sch Materials Sci & Engn, 1954 Huashan Rd, CN-200030 Shanghai, Peoples Rep China
Polym Int 2007 **56** (10) 1206
Fabrication, characterization and drug loading of pH-dependent multi-morphological nanoparticles based on cellulose

Ebrahim SM, Kashyout AB, Soliman MM// Univ Alexandria, Inst Grad Studies, Dept Materials Sci, 163 Horrya Ave, El-Shatby, Alexandria, Egypt
J Polym Res 2007 **14** (5) 423
Electrical and structural properties of polyaniline/cellulose triacetate blend films

Enebro J, Momcilovic D, Siika-Aho M, Karlsson S*// *Royal Inst Technol, Sch Chem Sci & Engn, Stockholm, Sweden
Biomacromolecules 2007 **8** (10) 3253
A new approach for studying correlations between the chemical structure and the rheological properties in carboxymethyl cellulose

Karakawa M, Chikamatsu M, Vakamoto C, Maeda Y, Kubota S, Yase K// Natl Inst Adv Ind Sci & Technol, Photon Res Inst, Tsukuba Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305 8565, Japan
Macromol Chem Phys 2007 **208** (18) 2000
Organic light-emitting diode application of fluorescent cellulose as a natural polymer

Marcelo G, Saiz E, Tarazona MP*// *Univ Alcala de Henares, Dept Quim Fis, ES-28871 Alcala de Henares, Spain
J Chromatogr A 2007 **1165** (1-2) 45
Determination of molecular parameters of hydroxyethyl and hydroxypropyl celluloses by chromatography with dual detection

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.

doi:10.1016/S0144-8617(08)00120-3

Milichovsky M, Sopuch T, Richter J// University Pardubice, Faculty Chem Technol, Dept Wood Pulp & Paper, Studentska 95, CZ-53009 Pardubice, Czech Republic
J Appl Polym Sci 2007 **106** (6) 3641
Depolymerization during nitroxide-mediated oxidation of native cellulose

Musial W// Wroclaw Med Univ, Drug Form Technol Unit, Szewska Str 38, PL-50139 Wroclaw, Poland
Chem Pharm Bull Tokyo 2007 **55** (8) 1141
The effect of methylcellulose on metronidazole release from polyacrylic acid hydrogels

Nada AMA, El-Sherief S, Nasr A, Kamel M// Natl Res Ctr, Cellulose & Paper Dept, Cairo, Egypt
J Mol Struct 2007 **841** (1-3) 1
Infrared spectroscopic and thermal analysis of prepared cation exchangers from cellulosic materials

Padokhin VA, Ganiev RF, Kochkina NE// Russian Acad Sci, Inst Solution Chem, ul Akademicheskaya 1, RU-153045 Ivanovo, Russia
Dokl Chem 2007 **416** (1) 227
Effect of mechanical activation on the viscoelastic properties of solutions of starch-sodium carboxymethyl cellulose mixtures

Reddy N, Yang YQ*// *Univ Nebraska Lincoln, Dept Textiles Clothing & Design, Lincoln, Ne 68583, USA
J Agric Food Chem 2007 **55** (21) 8570
Preparation and characterization of long natural cellulose fibers from wheat straw

Reynolds MA, Aichelmann-Reidy ME, Kassolis JD, Prasad HS, Rohrer MD// University Maryland School Dentistry, Dept Periodont, Baltimore, Md 21201, USA
J Biomed Mater Res B 2007 **83B** (2) 451
Calcium sulfate-carboxymethylcellulose bone graft binder: Histologic and morphometric evaluation in a critical size defect

Sannino A, Pappada S, Giotta L, Valli L, Maffezzoli A// Univ Lecce, Dept Innovation Engn, Via Monteroni, IT-73100 Lecce, Italy
J Appl Polym Sci 2007 **106** (5) 3040
Spin coating cellulose derivatives on quartz crystal microbalance plates to obtain hydrogel-based fast sensors and actuators

Sarotti AM, Spanevello RA, Suarez AG*// *Univ Nacl Rosario, Fac Ciencias Bioquim & Farmaceut, Inst Quim Organ Sintesis, CONICET, AR-2000 Rosario, Argentina
Green Chem 2007 **9** (10) 1137
An efficient microwave-assisted green transformation of cellulose into levoglucosenone. Advantages of the use of an experimental design approach

Sheldrake GN, Schleck D// Queens Univ Belfast, Sch Chem & Chem Engn, David Keir Bldg, Belfast BT7 1NN, Northern Ireland
Green Chem 2007 **9** (10) 1044
Dicationic molten salts (ionic liquids) as re-useable media for the controlled pyrolysis of cellulose to anhydrosugars

Takano T, Ishikawa J, Kamitakahara H, Nakatsubo F// Kyoto University, Graduate School Agric, Div Forest & Biomat Sci, Sakyo ku, Kyoto 606 8502, Japan
Carbohydr Res 2007 **342** (16) 2456
The application of microwave heating to the synthesis of 6-amino-6-deoxycellulose

Tanaka K, Morina T, Tanabe Y, Akiyama R// Kyoto Inst Technol, Grad Sch Sci, Dept Macromol Sci & Engn, Kyoto 606 8585, Japan
Liq Cryst 2007 **34** (9) 1019
Concentration dependences of dielectric properties at 10^5 Hz and 10^6 Hz for aqueous solutions of hydroxypropyl cellulose

Togawa E, Kondo T*// *Kyushu Univ, Bioarchitecture Ctr, Fukuoka 812 8581, Japan
J Polym Sci B Polym Phys 2007 **45** (20) 2850
Unique structural characteristics of nematic ordered cellulose-stability in water and its facile transformation

Wei YP, Cheng F// Tianjin Univ, Sch Sci, Dept Chem, CN-300072 Tianjin, Peoples Rep China
J Appl Polym Sci 2007 **106** (6) 3624
Effect of solvent exchange on the structure and rheological properties of cellulose in LiCl/DMAc

Wong TW, Deepak KG, Taib MN, Anuar NK// Univ Teknol Mara, Fac Pharm, Particle Design Res Grp, MY-40450 Shah Alam, Malaysia
Int J Pharm 2007 **343** (1-2) 122
Microwave non-destructive testing technique for characterization of HPMC-PEG 3000 films

Yan LF, Chen J, Bangal PR// University Science & Technology China, Hefei National Laboratory Phys Sci Micrometerscale, CN-230026 Anhua, Peoples Rep China
Macromol Biosci 2007 **7** (9-10) 1139
Dissolving cellulose in a NaOH/thiourea aqueous solution: A topochemical investigation

3. Cellulose-degrading enzymes

Tu MB, Chandra RP, Saddler JN*// *Univ British Columbia, Dept Wood Sci, Forest Prod Biotechnol Grp, Forest Sci Ctr, 2424 Main Mall, Vancouver, Brit Columbia, Canada V6T 1Z4
Biotechnol Prog 2007 **23** (5) 1130
Recycling cellulases during the hydrolysis of steam exploded and ethanol pretreated lodgepole pine

Xu J, Chen HZ*// *Chinese Acad Sci, Inst Process Engn, State Key Lab Biochem Engn, CN-100080 Beijing, Peoples Rep China
Appl Biochem Biotech 2007 **143** (1) 93
A novel stepwise recovery strategy of cellulase adsorbed to the residual substrate after hydrolysis of steam exploded wheat straw

4. Chitin/Chitosan

Asikainen AJ, Hagstrom J, Sorsa T, Noponen J, Kellomaki M, Juuti H, Lindqvist C, Hietanen J, Suuronen R// Univ Helsinki, Inst Dent, Dept Oral & Maxillofacial Surg, Helsinki, Finland
J Biomed Mater Res A 2007 **83A** (2) 530
Soft tissue reactions to bioactive glass 13-93 combined with chitosan

Babu VR, Sairam M, Hosamani KM*, Aminabhavi TM// *Karnatak Univ, Drug Delivery Div, Ctr Excellence Polymer Science, IN-580003 Dharwad, Karnataka, India
J Appl Polym Sci 2007 **106** (6) 3778
Preparation and characterization of novel-semi-interpenetrating 2-hydroxyethyl methacrylate-*g*-chitosan copolymeric microspheres for sustained release of indomethacin

Becerra-Bracamontes F, Sanchez-Diaz JC*, Gonzalez-Alvarez AJ, Ortega-Gudino P, Michel-Valdivia E, Martinez-Ruvalcaba A// *Univ Guadalajara, Dept Chem Engn, MX-44430 Guadalajara, Mexico
J Appl Polym Sci 2007 **106** (6) 3939
Design of a drug delivery system based on poly(acrylamide-co-acrylic acid)/chitosan nanostructured hydrogels

Boonyo W, Junginger HE, Waranuch N, Polnok A, Pitaksuteepong T*// *Naresuan Univ, Fac Pharmaceut Sci, Dept Pharmaceut Technol, TH-65000 Phitsanulok, Thailand
J Controlled Release 2007 **121** (3) 168
Chitosan and trimethyl chitosan chloride (TMC) as adjuvants for inducing immune responses to ovalbumin in mice following nasal administration

Cafaggi S, Russo E, Stefani R, Leardi R, Caviglioli G, Parodi B, Bignardi G, De Totero D, Aiello C, Viale M// Univ Genoa, Dept Chim & Tecnol Farmaceut Alimentari, Via Brigata Salerno 13, IT-16147 Genoa, Italy
J Controlled Release 2007 **121** (1-2) 110
Preparation and evaluation of nanoparticles made of chitosan or *N*-trimethyl chitosan and a cisplatin-alginate complex

Cai KY, Yao KD, Yang ZM, Qu YL, Li XQ// Chong Qing Univ, Coll Bioengn, CN-400044 Chong Qing, Peoples Rep China
J Mater Sci Mater Med 2007 **18** (10) 2017
Histological study of surface modified three dimensional poly(D,L-lactic acid) scaffolds with chitosan *in vivo*

Chen S, Liu M*, Jin S, Chen Y// *Lanzhou Univ, Dept Chem, CN-730000 Lanzhou, Peoples Rep China
Polym Int 2007 **56** (10) 1305
Structure and properties of the polyelectrolyte complex of chitosan with poly(methacrylic acid)

Choudhari SK, Kittur AA, Kulkarni SS, Kariduraganavar MY*// *Karnatak Univ, Ctr Excellence Polymer Sci, IN-580003 Dharwad, India
J Membr Sci 2007 **302** (1-2) 197
Development of novel blocked diisocyanate crosslinked chitosan membranes for pervaporation separation of water-isopropanol mixtures

El-Azzami LA, Grulke EA*// *Univ Kentucky, Dept Chem & Materials Engn, Lexington, Ky 40506, USA
J Polym Sci B Polym Phys 2007 **45** (18) 2620
Dual mode model for mixed gas permeation of CO_2, H_2, and N_2 through a dry chitosan membrane

Elizalde-Pena EA, Flores-Ramirez N*, Luna-Barcenas G, Vasquez-Garcia SR, Arambula-Villa G, Garcia-Gaitan B, Rutiaga-Quinones JG, Gonzalez-Hernandez J// *Unidad Queretaro, Libramiento Norponiente, Real Juriquilla, MX-76230 Queretaro, Qro, Mexico
Eur Polym J 2007 **43** (9) 3963
Synthesis and characterization of chitosan-*g*-glycidyl methacrylate with methyl methacrylate

Filion D, Lavertu M, Buschmann MD*// *Ecole Polytech, Inst Biomed Engn, Dept Chem Engn, PO Box 6079, Montreal, Quebec, Canada H3C 3A7
Biomacromolecules 2007 **8** (10) 3224
Ionization and solubility of chitosan solutions related to thermosensitive chitosan/glycerol-phosphate systems

Han W, Liu C, Bai R*// *Natl Univ Singapore, Fac Engn, Div Environm Sci & Engn, SG-117576 Singapore, Rep Singapore
J Membr Sci 2007 **302** (1-2) 150
A novel method to prepare high chitosan content blend hollow fiber membranes using a non-acidic dope solvent for highly enhanced adsorptive performance

Huang XJ, Ge D, Xu ZK*// *Zhejiang Univ, Inst Polymer Sci, MoE Key Lab Macromol Synth & Functionalization, CN-310027 Hangzhou, Peoples Rep China
Eur Polym J 2007 **43** (9) 3710
Preparation and characterization of stable chitosan nanofibrous membrane for lipase immobilization

Ishikawa N, Suzuki Y*, Ohta M, Cho H, Suzuki S, Dezawa M, Ide C// *Kitano Hosp, Tazuke Kofukai Med Res Inst, Dept Plast & Reconstructive Surg, Osaka, Japan
J Biomed Mater Res A 2007 **83A** (1) 33
Peripheral nerve regeneration through the space formed by a chitosan gel sponge

Karakecili AG, Satriano C, Gumusdereliioglu M*, Marletta G// *Hacettepe Univ, Dept Chem Engn, TR-06800 Ankara, Turkey
J Appl Polym Sci 2007 **106** (6) 3884
Surface characteristics of ionically crosslinked chitosan membranes

Kariya H, Kiyohara A, Masuda SG, Yoshihara Y, Ueno M, Hashimoto M*, Suda Y// *Kagoshima Univ, Venture Business Lab, Kagoshima 890, Japan
J Biomed Mater Res A 2007 **83A** (1) 58
Biological roles of carboxymethyl-chitin associated for the growth factor production

Li LL, Chen D, Zhang YQ, Deng ZT, Ren XL, Meng XW, Tang FQ, Ren J, Zhang L// Chinese Acad Sci, Tech Inst Phys & Chem, CN-100080 Beijing, Peoples Rep China
Nanotechnology 2007 **18** (40) 5102
Magnetic and fluorescent multifunctional chitosan nanoparticles as a smart drug delivery system

Li T, Shi XW, Du YM*, Tang YF// *Wuhan Univ, Renmin Hosp, Dept Neurol, CN-430060 Wuhan, Peoples Rep China
J Biomed Mater Res A 2007 **83A** (2) 383
Quaternized chitosan/alginate nanoparticles for protein delivery

Liu CH, Xiao CB, Huang YM// Univ SW Chongqing, Coll Chem & Chem Engn, CN-400715 Chongqing, Peoples Rep China
J Appl Polym Sci 2007 **106** (5) 3070
Novel polyion complex films from chitosan and quarternized poly(4-vinyl-*N*-carboxymethylpyridine) containing zwitterion structure units

Liu H, Chen B, Mao ZW, Gao CY*// *Zhejiang Univ, Dept Polymer Sci & Engn, MoE Key Lab Macromol Synth & Functionalization, CN-310027 Hangzhou, Peoples Rep China
J Appl Polym Sci 2007 **106** (6) 4248
Chitosan nanoparticles for loading of toothpaste actives and adhesion on tooth analogs

Lopez-Perez PM, Marques AP, Da Silva RMP, Pashkuleva I, Reis RL// Univ Minho, Dept Polymer Engn, 3Bs Res Grp, Campus de Gualtar, PT-4710 Braga, Portugal
J Mater Chem 2007 **17** (38) 4064
Effect of chitosan membrane surface modification *via* plasma induced polymerization on the adhesion of osteoblast-like cells

Lu GY, Kong LJ, Sheng BY, Wang G, Gong YD, Zhang XF*// *Tsing Hua Univ, Dept Biosci & Biotechnol, State Key Lab Biomembrane & Membrane Biotechnol, CN-100084 Beijing, Peoples Rep China
Eur Polym J 2007 **43** (9) 3807
Degradation of covalently cross-linked carboxymethyl chitosan and its potential application for peripheral nerve regeneration

Nosal WH, Thompson DW, Tiwald TE, Sarkar S, Subramanian A, Woollam JA*// *Univ Nebraska, Dept Elect Engn, Lincoln, Ne 68588, USA
Surf Interface Anal 2007 **39** (9) 747
Vacuum ultraviolet optical analysis of spin-cast chitosan films modified by succinic anhydride and glycidyl phenyl ether

Peng FB, Pan FS, Sun HL, Lu LY, Jiang ZY*// *Tianjin Univ, Sch Chem Engn & Technol, Key Lab Green Chem Technol, CN-300072 Tianjin, Peoples Rep China
J Membr Sci 2007 **300** (1-2) 13
Novel nanocomposite pervaporation membranes composed of poly(vinyl alcohol) and chitosan-wrapped carbon nanotube

Peng XH, Zhang LN*// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Langmuir 2007 **23** (21) 10493
Formation and morphologies of novel self-assembled micelles from chitosan derivatives

Safronov AP, Suvorova AI, Tyukova IS, Smimova YA// Urals State Univ, Dept Chem, Ekaterinburg, Russia
J Polym Sci B Polym Phys 2007 **45** (18) 2603
Opposite trends in thermodynamic compatibility between copolyamide and chitosan in their binary blend

Sarasam AR, Samli AI, Hess L, Ihnat MA, Madihally SV*// *Oklahoma State Univ, Sch Chem Engn, Stillwater, Ok 74078, USA
Macromol Biosci 2007 **7** (9-10) 1160
Blending chitosan with polycaprolactone: Porous scaffolds and toxicity

Shi BL, Zhao W, Mang QR// NE Forestry Univ, Coll Sci, Dept Chem, CN-150040 Harbin, Peoples Rep China
J Macromol Sci Phys 2007 **46** (5) 1033
Explanation for hydrogen bonds of chitin-alcohols from Lewis acid-base theories

Sini TK, Santhosh S*, Mathew PT// *Cent Inst Fisheries Technol, Fish Proc Div, IN-682029 Cochin, India
Carbohydr Res 2007 **342** (16) 2423
Study on the production of chitin and chitosan from shrimp shell by using *Bacillus subtilis* fermentation

Siqueira JP, Dos Santos DS, Misoguti L, Oliveira ON, Mendonca CR*// *Univ Sao Paulo, Inst Fis Sao Carlos, BR-13560-970 Sao Carlos, Brazil
Polym Int 2007 **56** (10) 1288
Influence of solvents on the photoinduced birefringence in chitosan films incorporating azo dyes

Slavik GJ, Ragetly G, Ganesh N, Griffon DJ, Cunningham BT*// *Univ Illinois, Dept Materials Sci & Engn, 1304 West Green St, Urbana, Il 61801, USA
J Mater Chem 2007 **17** (38) 4095
A replica molding technique for producing fibrous chitosan scaffolds for cartilage engineering

Son SH, Jegal J*// *Korea Res Inst Chem Technol, Div Appl Chem, Membrane & Separation Res Ctr, Taejon 305 606, South Korea
J Appl Polym Sci 2007 **106** (5) 2989
Synthesis and characterization of the chiral stationary phase based on chitosan

Suzuki S, Ying B, Yamane H, Tachi H, Shimahashi K, Ogawa K, Kitamura S*// *Univ Osaka Prefecture, Grad Sch Life Sci & Environm Sci, 1-1 Gakuen-cho, Naka ku, Sakai, Osaka 599 8531, Japan
Carbohydr Res 2007 **342** (16) 2490
Surface structure of chitosan and hybrid chitosan-amylose films - Restoration of the antibacterial properties of chitosan in the amylose film

Tsvetkova IB, Bronstein LM*, Sidorov SN, Lependina OL, Sulman MG, Valetsky PM, Stein B, Nikoshvili LZ, Matveeva VG, Sidorov AI, Tikhonov BB, Demidenko GN, Kiwi-Minsker L, Sulman EM// *Indiana Univ, Dept Chem, Bloomington, In 47405, USA
J Mol Catal A-Chem 2007 **276** (1-2) 116
Structure and behavior of nanoparticulate catalysts based on ultrathin chitosan layers

Wang Y, Chen XG*, Lv YH, Zhou HY, Zhang J// *Ocean Univ Qingdao, Coll Marine Life Studies, CN-266003 Qingdao, Peoples Rep China
J Appl Polym Sci 2007 **106** (5) 3136
Effects of molecular structural parameters of carboxymethyl chitosan on the growth of fibroblasts *in vitro*

Wei DW, Qian WP*, Shi Y, Ding SH, Xia Y// *Southeast Univ, Sch Biol Sci & Med Engn, State Key Lab Bioelectron, CN-210096 Nanjing, Peoples Rep China
Carbohydr Res 2007 **342** (16) 2494
Mass synthesis of single-crystal gold nanosheets based on chitosan

Wongpanit P, Sanchavanakit N, Pavasant P, Bunaprasert T, Tabata Y, Rujiravanit R*// *Chulalongkorn Univ, Petr & Petrchem Coll, TH-10330 Bangkok, Thailand
Eur Polym J 2007 **43** (10) 4123
Preparation and characterization of chitin whisker-reinforced silk fibronin nanocomposite sponges

Xu WT, Huang KL, Guo F, Qu W, Yang JJ, Liang ZH, Luo YB*// *China Agric Univ, Lab Fruit Physiol & Mol Biol, CN-100083 Beijing, Peoples Rep China
Postharvest Biol Technol 2007 **46** (1) 86
Postharvest grapefruit seed extract and chitosan treatments of table grapes to control *Botrytis cinerea*

Ying GQ, Yang H*, Yi Y, Xu F// *Zhejiang Univ Technol, Coll Pharmaceut Sci, CN-310032 Hangzhou, Peoples Rep China
Polym Bull 2007 **59** (4) 509
Relationships between the molecular structure and moisture-absorption and moisture-retention abilities of succinyl chitosan

Yu HQ, Lu J, Xiao CB*// *Wuhan Univ, Coll Chem & Mol Sci, CN-430072 Wuhan, Peoples Rep China
Macromol Biosci 2007 **7** (9-10) 1100
Preparation and properties of novel hydrogels from oxidized konjac glucomannan cross-linked chitosan for *in vitro* drug delivery

Yu SJ, Du J, Zheng YB*, Yan L// *Dalian Univ Technol, Dept Polymer Sci, Dalian, Peoples Rep China
J Appl Polym Sci 2007 **106** (6) 4098
Synthesis and characterization of carboxymethyl chitosan containing functional ultraviolet absorber substituent

Zhong ZM, Chen R, Xing RG, Chen XL, Liu S, Guo ZY, Ji X, Wang L, Li PC*// *Chinese Acad Sci, Inst Oceanol, CN-266071 Qingdao, Peoples Rep China
Carbohydr Res 2007 **342** (16) 2390
Synthesis and antifungal properties of sulfanilamide derivatives of chitosan

Zhou XF, Liu B, Yu XH, Zha X, Zhang XZ, Chen Y, Wang XY, Jin YH, Wu YG, Chen Y, Shan Y, Chen Y, Liu J, Kong W, Shen J*// *Jilin Univ, Coll Life Sci, CN-130012 Changchun, Peoples Rep China
J Control Release 2007 **121** (3) 200
Controlled release of PEI/DNA complexes from mannose-bearing chitosan microspheres as a potent delivery system to enhance immune response to HBV DNA vaccine

5. Cyclodextrins

Belyakova LA, Varvarin AM, Lyashenko DY, Khora OV, Oranskaya EI// Natl Acad Sci Ukraine, Inst Surface Chem, ul Gen Naumova 17, UA-03164 Kiev 164, Ukraine
Colloid J-Engl Tr 2007 **69** (5) 546
Complexation in a β-cyclodextrin-salicylic acid system

Bonacucina G, Spina M, Misici-Falzi M, Cespi M, Pucciarelli S, Angeletti M, Palmieri GF*// *Univ Camerino, Dept Chem Sci, Via S Agostino 1, IT-62032 Camerino, MC, Italy
Eur J Pharm Sci 2007 **32** (2) 115
Effect of hydroxypropyl β-cyclodextrin on the self-assembling and thermogelation properties of Poloxamer 407

Chechik V, Ionita G// University York, Department Chemistry, York YO10 5DD, England
New J Chem 2007 **31** (10) 1726
Bis spin-labelled cyclodextrins

Fan Z, Diao CH, Guo MJ, Du RJ, Song YF, Jing ZL, Yu M// Univ Sci & Technol, Coll Sci, CN-300222 Tianjin, Peoples Rep China
Carbohydr Res 2007 **342** (16) 2500
An investigation of the inclusion complex of β-cyclodextrin with *p*-nitrobenzoic acid in the solid state

Fukudome M, Shimosaki K, Koga K, Yuan DQ*, Fujita K// *Nagasaki Univ, Grad Sch Biomed Sci, Dept Mol Med Sci, Bunkyo machi 1-14, Nagasaki 852 8521, Japan
Tetrahedron Lett 2007 **48** (42) 7493
Selective synthesis and ester cleavage property of $3^A,2^B$-anhydro-3^B-deoxy-3^B-thio-β-cyclodextrin

Hipler UC, Schonfelder U, Hipler C, Elsner P// Univ Jena, Dept Dermatol, DE-07743 Jena, Germany
J Biomed Mater Res A 2007 **83A** (1) 70
Influence of cyclodextrins on the proliferation of HaCaT keratinocytes *in vitro*

Jug M, Becirevid-Lacan M// Univ Zagreb, Fac Pharm & Biochem, Dept Pharmaceut, A Kovacica 1, HR-10000 Zagreb, Croatia
Comb Chem High Throughput Scr 2007 **10** (5) 358
Screening of mucoadhesive microparticles containing hydroxypropyl-β-cyclodextrin for the nasal delivery of risperidone

Kikuzawa A, Kida T, Akashi M// Osaka Univ, Grad Sch Engn, Dept Appl Chem, 2-1 Yamadaoka, Osaka 565 0871, Japan
Org Lett 2007 **9** (20) 3909
Synthesis of stimuli-responsive cyclodextrin derivatives and their inclusion ability control by ring opening and closing reactions

Kumar VP, Kumar PA, Suryanarayana I, Venkata Y, Nageswar D, Rao KR*// *Indian Inst Chem Technol, Organ Chem Div 1, Uppal Rd, IN-500007 Hyderabad, India
Helv Chim Acta 2007 **90** (9) 1697
Chiral recognition of zolmitriptan by modified cyclodextrins

Pereira CS, De Moura AE, Freitas LCG, Lins RA*// *Pacific NW Natl Lab, Richland, Wa 99352, USA
J Brazil Chem Soc 2007 **18** (5) 951
Revisiting the internal conformational dynamics and solvation properties of cyclodextrins

Rossi S, Bonini M, Lo Nostro P*, Baglioni P// *Univ Florence, Dept Chem, CSGI, IT-50019 Sesto Fiorentino, Italy
Langmuir 2007 **23** (22) 10959
Self-assembly of β-cyclodextrin in water. 2. Electron spin resonance

Sotthivirat S, Haslam JL, Stella VJ*// *University Kansas, Department Pharmaceutical Chemistry, 2095 Constant Avenue, Lawrence, Kansas 66047, USA
J Pharm Sci 2007 **96** (9) 2364
Controlled porosity-osmotic pump pellets of a poorly water-soluble drug using sulfobutyl ether-β-cyclodextrin, $(SBE)_{7M}$-β-CD, as a solubilizing and osmotic agent

Whang HS, Hunt MA, Wrench N, Hockney JE, Farin CE, Tonelli AE*// *Nth Carolina State Univ, Coll Textiles, Fiber & Polymer Sci Program, Raleigh, NC 27695, USA
J Appl Polym Sci 2007 **106** (6) 4104
Nonoxynol-9-α-cyclodextrin inclusion compound and its application for the controlled release of nonoxynol-9 spermicide

6. Lignin

Megiatto JD, Hoareau W, Gardrat C, Frollini E, Castellan A*// *Univ Sao Paulo, Inst Quim Sao Carlos, CP 780, BR-13560 Sao Carlos, SP, Brazil
J Agric Food Chem 2007 **55** (21) 8576
Sisal fibers: Surface chemical modification using reagent obtained from a renewable source: Characterization of hemicellulose and lignin as model study

Raschip IE, Vasile C, Ciolacu D, Cazacu G// Petru Poni Inst Macromol Chem, RO-6600 Iasi, Romania
High Perform Polym 2007 **19** (5-6) 603
Semi-interpenetrating polymer networks containing polysaccharides. I xanthan/lignin networks

7. Lipopolysaccharides

Al-Zeer M, Masoud H*// *Univ Jordan, Fac Sci, Dept Biol Sci, JO-11942 Amman, Jordan
World J Microbiol Biotechnol 2007 **23** (11) 1541
LPS-based conjugate vaccines composed of O-polysaccharide from *Pseudomonas aeruginosa* IATS 6 and 11 bound to a carrier protein

Fujimoto Y, Iwata M, Imakita N, Shimoyama A, Suda Y, Kusumoto S, Fukase K*// *Osaka Univ, Grad Sch Sci, Dept Chem, Toyonaka, Osaka 560 0043, Japan
Tetrahedron Lett 2007 **48** (37) 6577
Synthesis of immunoregulatory *Helicobacter pylori* lipopolysaccharide partial structures

MacLean L, Perry MB, Nossova L, Kaplan H, Vinogradov E*// *Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr, Ottawa, Ontario, Canada K1A 0R6
Carbohydr Res 2007 **342** (16) 2474
The structure of the carbohydrate backbone of the LPS from *Myxococcus xanthus* strain DK1622

Ruttens B, Saksena R, Kovac P// NIH/NIDDK, Sect Carbohydrates, LBC, Bldg 10, Bethesda, Md 20892, USA
Eur J Org Chem 2007 (26) 4366
Synthesis of phosphorylated, conjugation-ready di-, tri- and tetrasaccharide fragments of the O-specific polysaccharide of *V. cholerae* O139

8. Pectin

Takeda C, Takahashi Y*, Seto I, Kawano G, Takayama K, Onishi H, Machida Y// *Hoshi Univ, Dept Drug Delivery Res, Ebara, Shinagawa ku, Tokyo, Japan
Chem Pharm Bull Tokyo 2007 **55** (8) 1164
Influence of pectins on preparation characteristics of lactoferrin bioadhesive tablets

Ur'yash VF, Gruzdeva AE, Kokurina NY, Grishatova NV, Faminskaya LA// Lobachevskii State Univ, Res Inst Chem, pr Gagarina 23-5, RU-603950 Nizhnii Novgorod, Russia
Polym Sci Ser A 2007 **49** (9) 1020
Calorimetric determination of solubility of water in pectin and physical state diagram of a pectin-water system

9. Starch

Ares G, Goncalvez D, Perez C, Reolon G, Segura N, Lema P, Gambaro A// Univ Republica, Seccion Evaluacion Sensorial, UY-2124 Montevideo, Uruguay
Int J Dairy Technol 2007 **60** (4) 263
Influence of gelatin and starch on the instrumental and sensory texture of stirred yogurt

Chillo S, Laverse J, Falcone PM, Del Nobile MA// Univ Foggia, Dept Food Sci, Via Napoli 25, IT-71100 Foggia, Italy
J Food Eng 2007 **83** (4) 492
Effect of carboxymethylcellulose and pregelatinized corn starch on the quality of amaranthus spaghetti

Cizova A, Koschella A, Heinze T, Ebringerova A*, Srokova I// *Slovak Acad Sci, Inst Chem, Dubravska cesta 9, SK-84538 Bratislava, Slovakia
Starch 2007 **59** (10) 482
Octenylsuccinate derivatives of carboxymethyl starch - Synthesis and properties

Collares-Queiroz FP, Cotta MA, Finzer JRD, Kieckbusch TG// Univ Estadual Campinas, Fac Engn Alimentos, Dept Tecnol Alimentos, Caixa Postal 6121, BR-13081-970 Campinas, SP, Brazil
Starch 2007 **59** (10) 498
Influence of the material and the surface roughness of the drying support on the self-detachment of maltodextrin films

Garg S, Jana AK*// *Natl Inst Technol, Dept Chem & Bioengn, IN-144011 Jalandhar, Punjab, India
Eur Polym J 2007 **43** (9) 3976
Studies on the properties and characteristics of starch-LDPE blend films using cross-linked, glycerol modified, cross-linked and glycerol modified starch

Kumar A, Ganjyal GM, Jones DD, Hanna MA*// *Univ Nebraska, Dept Biol Systems Engn, 212 LW Chase Hall, Lincoln, Ne 68583, USA
Cereal Chem 2007 **84** (5) 480
Experimental determination of longitudinal expansion during extrusion of starches

Li S, Yang Y*, Li H, Yang X, Xul H// *Huazhong Univ Sci & Technol, Dept Chem, CN-430074 Wuhan, Peoples Rep China
J Appl Polym Sci 2007 **106** (6) 3792
pH-Responsive semi-interpenetrating networks hydrogels of poly(acrylic acid-acrylamide-methacrylate) and amylose. I. synthesis and characterization

Nemtanu MR, Minea R, Kahraman K, Koksel H, Ng PKW, Popescu MI, Mitru E// Natl Inst Lasers Plasma & Radiat Phys, Electron Accelerators Dept, 409 Atomistilor St, RO-077125 Bucharest, Romania
Nucl Instrum Methods Phys Res A 2007 **580** (1) 795
Electron beam technology for modifying the functional properties of maize starch

Park CS, Baik BK*// *Rural Development Administration, Natl Inst Crop Sci, Honan Agric Res Inst, Div Winter Cereal & Upload Crops, Iksan 570 080, South Korea
Cereal Chem 2007 **84** (5) 437
Characteristics of French bread baked from wheat flours of reduced starch amylose content

Rochelle C, Lee G*// *Univ Erlangen Nurnberg, Dept Pharmaceut, Erlangen, Germany
J Pharm Sci 2007 **96** (9) 2296
Dextran or hydroxyethyl starch in spray-freeze-dried trehalose/mannitol microparticles intended as ballistic particulate carriers for proteins

Senna MM, Yossef AM, Hossam FM, El-Naggar AWM*// *Natl Ctr Radiat Res & Technol, Radiat Chem Dept, PO Box 29, Cairo, Egypt
J Appl Polym Sci 2007 **106** (5) 3273
Biodegradation of low-density polyethylene/thermoplastic starch foams before and after electron beam irradiation

Shih F, King J, Daigle K, An HJ, Ali R// USDA/ARS, Sthn Reg Res Ctr, New Orleans, La, USA
Cereal Chem 2007 **84** (5) 527
Physicochemical properties of rice starch modified by hydrothermal treatments

Shu XL, Jia LM, Gao JK, Song YL, Zhao HJ, Nakamura Y, Wu DX*// *Zhejiang Univ, Inst Nucl Agric Sci, State Key Lab Rice Biol, IAEA Collaborating Ctr, CN-310029 Hangzhou, Peoples Rep China
Starch 2007 **59** (10) 504
The influences of chain length of amylopectin on resistant starch in rice (*Oryza sativa* L.)

Somboonchai W, Nopharatana M*, Songkasiri W// *King Mongkuts Univ Technol Thonburi, Fac Engn, Dept Food Engn, 126 Pracha-utit Rd, TH-10140 Bangkok, Thailand
J Food Eng 2007 **84** (4) 563
Kinetics of cyanide oxidation by ozone in cassava starch production process

Thirathumthavorn D, Charoenrein S*// *Kasetsart Univ, Fac Agroind, Dept Food Sci & Technol, TH-10900 Bangkok, Thailand
Starch 2007 **59** (10) 493
Aging effects on sorbitol- and non-crystallizing sorbitol-plasticized tapioca starch films

Torres AV, Zamudio-Flores PB, Salgado-Delgado R, Bello-Perez LA*// *IPN, Ctr Desarrollo Productos Bioticos, CP 62731, Yautepec, Morelos, Mexico
J Appl Polym Sci 2007 **106** (6) 3994
Morphological, thermal, and mechanical studies of film elaborated with the blend low-density polyethylene and chemical-modified banana starch

Tran QD, Van Lin CGJM, Hendriks WH, Van der Poel AFB*// *Wageningen Univ, Dept Anim Sci, Anim Nutr Grp, Marijkeweg 40, NL-6709 PG Wageningen, The Netherlands
Anim Feed Sci Technol 2007 **138** (2) 162
Lysine reactivity and starch gelatinization in extruded and pelleted canine diets

Tuske Z, Laszlo K, Pintye-Hodi K*// *Univ Szeged, Dept Pharmaceut Technol, Eotvos 6, HU-6724 Szeged, Hungary
Starch 2007 **59** (10) 510
Connection between surface properties specific, surface area and component distribution of binary mixtures of corn starch and metronidazole

Zhang JF, Sun XZ*// *Kansas State Univ, Dept Grain Sci & Ind, Biomaterials & Technol Lab, Manhattan, Ks 66506, USA
J Appl Polym Sci 2007 **106** (5) 3058
Biodegradable foams of poly(lactic acid)/starch. II. Cellular structure and water resistance

11. Polysaccharides - Microbial

Abdurrahmanoglu S, Firat Y*// *Marmara Univ, Art & Sci Fac, Dept Chem, Istanbul, Turkey
J Appl Polym Sci 2007 **106** (6) 3565
Synthesis and characterization of new dextran-acrylamide gels

Bai G, Catita JAM, Nichifor M, Bastos M*// *Univ Porto, Fac Sci, Dept Chem, CIQUP, R Campo Alegre 687, PT-4169 Oporto, Portugal
J Phys Chem B 2007 **111** (39) 11453
Microcalorimetric evidence of hydrophobic interactions between hydrophobically modified cationic polysaccharides and surfactants of the same charge

Barrett D, Wang TSA, Yuan Y, Zhang Y, Kahne D*, Walker S// *Harvard Med Sch, Dept Microbiol & Mol Genet, 200 Longwood Ave, Boston, Ma 02115, USA
J Biol Chem 2007 **282** (44) 31964
Analysis of glycan polymers produced by peptidoglycan glycosyltransferases

Chandra K, Ghosh K, Roy SK, Mondal S, Maiti D, Ojha AK, Das D, Mondal S, Islam SS*// *Vidyasagar Univ, Dept Chem & Chem Technol, IN-721102 West Midnapore, India
Carbohydr Res 2007 **342** (16) 2484
A water-soluble glucan isolated from an edible mushroom *Termitomyces microcapus*

De Jong WH, Dormans JAMA, Van Steenbergen MJ, Verharen HW, Hennink WE// Natl Inst Publ Hlth & Environm, Lab Toxicol Pathol & Genet, PO Box 1, NL-3720 BA Bilthoven, The Netherlands
J Biomed Mater Res A 2007 **83A** (2) 538
Tissue response in the rat and the mouse to degradable dextran hydrogels

Ikewaki N, Fujii N, Onaka T, Ikewaki S, Inoko H// Kyushu Univ Hlth & Welfare, Sch Hlth Sci, Takahashi Educat Inst, 1714-1 Yoshino cho, Miyazaki 882 8508, Japan
Microbiol Immunol 2007 **51** (9) 861
Immunological actions of Sophy β-glucan (β-1,3-1,6 glucan), currently available commercially as a health food supplement

Li YM, Xu GY*, Chen AM, Dong SL, Yuan SL// *Shandong Univ, MoE Key Lab Colloid & Interface Chem, CN-250100 Jinan, Peoples Rep China
Chin Sci Bull 2007 **52** (19) 2605
Interaction between dodecyl oxypropyl β-hydroxyltrimethylammonium bromide and xanthan: MesoDyn simulation and binding isotherm measurements

Lillo L, Alarcon J, Cabello G, Aguila S, Alderete JB// Univ Bio-Bio, Fac Ciencias, Dept Ciencias Basicas, Chillan, Chile
Z Naturforsch C 2007 **62** (7-8) 576
Production of exopolysaccharides by a submerged culture of an entomopathogenic fungus, *Paecilomyces* sp.

Mandal PK, Misra AK*// *Cent Drug Res Inst, Med & Proc Chem Div, Chattar Manzil Pl, IN-226001 Lucknow, India
Synthesis Stuttgart 2007 (17) 2660
Synthesis of oligosaccharides corresponding to the polysaccharides of *Lactobacillus* and *Thermophilus* strains

Marie E, Rotureau E, Dellacherie E, Durand A*// *Univ Nancy, ENSIC, Lab Chim Phys Macromol, CNRS UMR 7568, BP 20451, FR-54001 Nancy, France
Colloid Surface A 2007 **308** (1-3) 25
From polymeric surfactants to colloidal systems 4. Neutral and anionic amphiphilic polysaccharides for miniemulsion stabilization and polymerization

Morillo JA, Del Aguila VG, Aguilera M, Ramos-Cormenzana A, Monteoliva-Sanchez M*// *Univ Granada, Fac Pharm, Dept Microbiol, Campus Univ Cartuja s/n, ES-18071 Granada, Spain
World J Microbiol Biotechnol 2007 **23** (12) 1705
Production and characterization of the exopolysaccharide produced by *Paenibacillus jamilae* grown on olive mill-waste waters

Reese S, Guggenheim B// Univ Zurich, Inst Oral Biol, Ctr Dent & Oral Med & Craniomaxillofacial Surg, Plattenstr 11, CH-8032 Zurich, Switzerland
Microsc Res Tech 2007 **70** (9) 816
A novel TEM contrasting technique for extracellular polysaccharides in *in vitro* biofilms

Roman-Brito JA, Agama-Acevedo E, Mendez-Montealvo G, Bello-Perez LA*// *Ctr Desarrollo Productos Bioticos - IPN, km 8.5 Carr Yautepec-Jojutla, Colonia San Isidro, MX-62731 Morelos, Mexico
Cereal Chem 2007 **84** (5) 502
Textural studies of stored corn tortillas with added xanthan gum

Sanchez-Medina I, Gerwig GJ, Urshev ZL, Kamerling JP*// *Univ Utrecht, Dept Bio Organ Chem, Bijvoet Ctr, Padualaan 8, NL-3584 CH Utrecht, The Netherlands
Carbohydr Res 2007 **342** (16) 2430
Structure of a neutral exopolysaccharide produced by *Lactobacillus delbrueckii* ssp *bulgaricus* LBB.B26

Schmid F, Separovic F, McDougall BA, Stone BA, Brownlee RTC, Seviour RJ*// *La Trobe Univ, Biotechnol Res Ctr, Bendigo, Vic 3550, Australia
Carbohydr Res 2007 **342** (16) 2481
Characterisation of the extracellular polysaccharides produced by isolates of the fungus *Acremonium*

Tao YZ, Yan F, Zhang L*// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
J Polym Sci B Polym Phys 2007 **45** (18) 2546
Fractionation and characterization of a protein-polysaccharide complex from *Pleurotus tuberregium* sclerotia

Van der Meulen R, Grosu-Tudor S, Mozzi F, Vaningelgem F, Zamfir M, De Valdez GF, De Vuyst L*// *Vrije Univ Brussel, IMDO, Dept Appl Biol Sci & Engn, Pleinlaan 2, BE-1050 Brussels, Belgium
Int J Food Microbiol 2007 **118** (3) 250
Screening of lactic acid bacteria isolates from dairy and cereal products for exopolysaccharide production and genes involved

Wang X, Zhao X, Li D, Lou YQ, Lin ZB, Zhang GL*// *Beijing Peking Univ, Dept Pharmacol, 38 Xue Yuan Rd, CN-100083 Beijing, Peoples Rep China
Biol Pharm Bull 2007 **30** (9) 1702
Effects of *Ganoderma lucidum* polysaccharide on CYP2E1, CYP1A2 and CYP3A activities in BCG-immune hepatic injury in rats

12. Polysaccharides - Plant

Breguet V, Von Stockar U, Marison IW*// *Dublin City Univ, Sch Biotechnol, Dublin 9, Rep Ireland
Biotechnol Prog 2007 **23** (5) 1223
Characterization of alginate lyase activity on liquid, gelled and complexed states of alginate

Fan L, Zhu H, Zheng H, Xu Y, Zhang C// Wuhan Univ Technol, Coll Chem Engn, CN-430070 Wuhan, Peoples Rep China
J Appl Polym Sci 2007 **106** (6) 3903
Structure and properties of blend fibers prepared from alginate and konjac glucomannan

Fantazzini P, Garavaglia C, Gomez S, Toffanin R, Vittur F*// *Univ Bologna, Dept Phys, Viale Berti Pichat 6/2, IT-40127 Bologna, Italy
J Biomed Mater Res A 2007 **83A** (2) 345
Chondrocyte-alginate bioconstructs: A nuclear magnetic resonance relaxation study

Gao LM, Chi ZM*, Sheng J, Wang L, Li J, Gong F// *Ocean Univ China, UNESCO Chinese Ctr Marine Biotechnol, Qingdao, Peoples Rep China
Microb Ecol 2007 **54** (4) 722
Inulinase-producing marine yeasts: Evaluation of their diversity and inulin hydrolysis by their crude enzymes

Kanekiyo K, Hayashi K, Takenaka H, Lee JB, Hayashi T*// *Toyama Univ, Grad Sch Med & Pharmaceut Sci, Toyama 930 0194, Japan
Biol Pharm Bull 2007 **30** (8) 1573
Anti-herpes simplex virus target of an acidic polysaccharide, nostoflan, from the edible blue-green alga *Nostoc flagelliforme*

Lagoa R, Rodrigues JR// Polytech Inst Leiria, Sch Technol & Management, Morro do Lena, Alto do Viero, PT-2411-901 Leiria, Portugal
Appl Biochem Biotech 2007 **143** (2) 115
Evaluation of dry protonated calcium alginate beads for biosorption applications and studies of lead uptake

Li A, Li Q*, Feng T, Zhang T, Li K, Zhao R, Han Z, Gao D// *Yanshan Univ, Coll Environm & Chem Engn, CN-066004 Qinhuangdao, Peoples Rep China
Phytother Res 2007 **21** (9) 832
Antitumor activity of crude polysaccharides isolated from *Solanum nigrum* Linne on U14 cervical carcinoma bearing mice

Mikkonen KS, Rita H, Helen H, Talja RA, Hyvonen L, Tenkanen M// Univ Helsinki, Dept Appl Chem & Microbiol, PO Box 27, FI-00014 Helsinki, Finland
Biomacromolecules 2007 **8** (10) 3198
Effect of polysaccharide structure on mechanical and thermal properties of galactomannan-based films

Roy SK, Chandra K, Ghosh K, Mondal S, Maiti D, Ojha AK, Das D, Mondal S, Chakraborty I, Islam SS*// *Vidyasagar Univ, Dept Chem & Chem Technol, IN-721102 Midnapore, India
Carbohydr Res 2007 **342** (16) 2380
Structural investigation of a heteropolysaccharide isolated from the pods (fruits) of *Moringa oleifera* (sajina)

Russo R, Malinconico M, Santagata G// CNR, Inst Chem & Technol Polymer, Via Campi Flegrei 34, IT-80078 Pozzuoli, Italy
Biomacromolecules 2007 **8** (10) 3193
Effect of cross-linking with calcium ions on the physical properties of alginate films

Srikanta BM, Siddaraju MN, Dharmesh SM*// *Cent Food Technol Res Inst, Dept Biochem & Nutr, IN-570020 Mysore, India
World J Gastroenterol 2007 **13** (39) 5196
A novel phenol-bound pectic polysaccharide from *Decalepis hamiltonii* with multi-step ulcer preventive activity

Tari O, Pekcan O*// *Istanbul Tech Univ, Dept Chem, Istanbul, Turkey
J Appl Polym Sci 2007 **106** (6) 4164
Swelling activation energy of κ-carrageenan in its gel state: A fluorescence study

Vincent RR, Pinder DN, Hemar Y, Williams MAK// Massey Univ, Inst Fundamental Sci, Palmerston North, New Zealand
Phys Rev E 2007 **76** (3 Pt 1) 1909
Microrheological studies reveal semiflexible networks in gels of a ubiquitous cell wall polysaccharide

Yao N, Jannink JL, White PJ*// *Iowa State Univ Sci & Technol, Dept Food Sci & Human Nutr, Ames, Ia 50011, USA
Cereal Chem 2007 **84** (5) 471
Molecular weight distribution of (1→3)(1→4)-glucan affects pasting properties of flour from oat lines with high and typical amounts of β-glucan

13. Polysaccharides - Other

Angeli S, Connell S, Gibson B, Ozdek A, McElveen JT, Van de Water TR*// *Univ Miami, Miller Sch Med, Dept Otolaryngol, Ear Inst, 1600 NW 10th Ave, Miami, Fl 33136, USA
Ann Otol Rhinol Laryngol 2007 **116** (9 Pt 1) 667
Injectable form of cross-linked hyaluronan is effective for middle ear wound healing

Borzacchiello A, Mayol L, Ramires PA, Pastorello A, Di Bartolo C, Ambrosio L, Milella E// IMCB-CNR, Ple Tecchio 80, IT-80125 Naples, Italy
Biomaterials 2007 **28** (30) 4399
Structural and rheological characterization of hyaluronic acid-based scaffolds for adipose tissues engineering

Chien LJ, Lee CK*// *Natl Taiwan Univ Sci & Technol, Dept Chem Engn, Taipei 106, Taiwan
Biotechnol Prog 2007 **23** (5) 1017
Enhanced hyaluronic acid production in *Bacillus subtilis* by coexpressing bacterial hemoglobin

Chien LJ, Lee CK// Natl Taiwan Univ Sci & Technol, Dept Chem Engn, Taipei 106, Taiwan
Appl Microbiol Biotechnol 2007 **77** (2) 339
Hyaluronic acid production by recombinant *Lactococcus lactis*

Drogoz A, David L, Rochas C, Domard A, Delair T*// *Ecole Normale Super Lyon, UMR CNRS 2714 BioMerieux, 46 Allee Italie, FR-69364 Lyon, France
Langmuir 2007 **23** (22) 10950
Polyelectrolyte complexes from polysaccharides: Formation and stoichiometry monitoring

Guilherme MR, Reis AV, Paulino AT, Fajardo AR, Muniz EC, Tambourgi EB// Univ Estadual Campinas, Fac Engn Quim, Dept Proc Quim & Informat, Campinas, SP, Brazil
J Appl Polym Sci 2007 **105** (5) 2903
Superabsorbent hydrogel based on modified polysaccharide for removal of Pb^{2+} and Cu^{2+} from water with excellent performance

He YM, Liu CH, Chen YX, Ji AC, Shen ZL, Xi T, Yao QS*// *Drug Safety Evaluat Ctr Jingsu Province, CN-210009 Nanjing, Peoples Rep China
J Biosci Bioeng 2007 **104** (2) 111
Isolation and structural characterization of a novel polysaccharide prepared from *Arca subcrenata* Lischke

Huang MC, Shen ZH, Zhang YL, Zeng XQ*, Wang PG// *Oakland Univ, Dept Chem, Rochester, Mi 48309, USA
Bioorg Med Chem Lett 2007 **17** (19) 5379
Alkanethiol containing glycopolymers: A tool for the detection of lectin binding

Jimenez MM, Fresno MJ, Ramirez A// Univ Alcala de Henares, Sch Pharm, Dept Pharm & Pharmaceut Technol, ES-28871 Madrid, Spain
Chem Pharm Bull Tokyo 2007 **55** (8) 1157
Rheological study of binary gels with Carbopol® Ultrez™ 10 and hyaluronic acid

Limozin L, Sengupta K*// *Forschungszentrum, Inst Bio & Nanosyteme-4, Julich, Germany
Biophys J 2007 **93** (9) 3300
Modulation of vesicle adhesion and spreading kinetics by hyaluronan cushions

Mao ZC, Chen RR*// *Georgia Inst Technol, Sch Chem & Biomol Engn, 311 Ferst Dr, Atlanta, Ga 30332, USA
Biotechnol Prog 2007 **23** (5) 1038
Recombinant synthesis of hyaluronan by *Agrobacterium* sp

Mracek A, Benesova K, Minarik A, Urban P, Lapcik L// Tomas Bata Univ Zlin, Fac Technol, Dept Phys & Material Engn, nad Stranemi 4511, CZ-76005 Zlin, Czech Republic
J Biomed Mater Res A 2007 **83A** (1) 184
The diffusion process of sodium hyaluronate (Na-HA)and Na-HA-*n*-alkyl derivatives films swelling

Sarmento B, Ribeiro A, Veiga F, Ferreira D, Neufeld R// Univ Porto, Fac Pharm, Dept Pharmaceut Technol, PT-4050 Oporto, Portugal
Biomacromolecules 2007 **8** (10) 3054
Oral bioavailability of insulin contained in polysaccharide nanoparticles

Weidenbecher M, Henderson JH, Tucker HM, Baskin JZ, Awadallah A, Dennis JE// Case Western Reserve Univ, Dept Orthopaedics, BRB, Cleveland, Oh 44106, USA
Laryngoscope 2007 **117** (10) 1745
Hyaluronan-based scaffolds to tissue-engineer cartilage implants for laryngotracheal reconstruction