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www.elsevier.com/locate/carbpol

Bibliography of carbohydrate polymers

(4 weeks journals. Search completed at 23rd. Aug. 2006)

1. Books, reviews & symposia

Macromol Symposia 2005 **232**
Special issue on hemicelluloses

Castro EA, Barbiric DAJ// INIFTA, Div Quim Teorica, Sucursal 4, CC 16, AR-1900 La Plata, Argentina
Curr Org Chem 2006 **10** (7) 715
Molecular modeling and cyclodextrins: A relationship strengthened by complexes

Jaime C, De Federico M// Univ Autonoma Barcelona, Fac Ciencias, Dept Quim, ES-08193 Bellaterra, Spain
Curr Org Chem 2006 **10** (7) 731
Computational studies on two supramolecular structures: Cyclodextrins and rotaxanes

Sajilata MG, Singhal RS, Kulkarni PR// Inst Chem Technol, Food Engn & Technol Dept, IN-400019 Mumbai, India
Compr Rev Food Sci Food Saf 2006 **5** (1) 1
Resistant starch - A review

Wegner TH, Jones PE// USDA/US Forest Serv, Forest Prod Lab, 1 Gifford Pinchot Dr, Madison,Wi 53726, USA
Cellulose 2006 **13** (2) 115
Advancing cellulose-based nanotechnology

Zhu SD, Wu YX, Chen QM, Yu ZN, Wang CW, Jin SW, Ding YG, Wu G// Wuhan Inst Chem Technol, Sch Chem Engn & Pharm, Hubei Key Lab Novel Chem Reactor & Green Chem Technol, CN-430073 Wuhan, Peoples Rep China
Green Chem 2006 **8** (4) 325
Dissolution of cellulose with ionic liquids and its application: A mini-review

2. Cellulose

Backfolk K, Olofsson G, Rosenholm JB, Eklund D// Abo Akad Univ, Dept Phys Chem, FI-20500 Turku, Finland
Colloid Surface A 2006 **276** (1-3) 78
Study by isothermal calorimetry and electrophoresis of the interaction between latices and cellulose derivatives

Bai YX, Li YF*// *Lanzhou Univ, Coll Chem & Chem Engn, Inst Polym Phys & Chem, State Key Lab Appl Organ Chem, 222 Tianshui Sth Rd, CN-730000 Lanzhou, Gansu, Peoples Rep China
Carbohydr Polym 2006 **64** (3) 402
Preparation and characterization of crosslinked porous cellulose beads

Barthel S, Heinze T// Univ Jena, Inst Organ Chem & Macromol Chem, Ctr Excellence Polysaccharide Res, Humboldtstr 10, DE-07743 Jena, Germany
Green Chem 2006 **8** (3) 301
Acylation and carbanilation of cellulose in ionic liquids

Beheshti N, Bu H, Zhu KZ, Kjoniksen AL, Knudsen KD, Pamies R, Cifre JGH, De la Torre JG, Nystrom B*// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
J Phys Chem B 2006 **110** (13) 6601
Characterization of interactions in aqueous solutions of hydroxyethylcellulose and its hydrophobically modified analogue in the presence of a cyclodextrin derivative

Bondeson D, Mathew A, Oksman K*// *NTNU, Dept Engn Design & Mat, Richard Birkelands vei 2B, NO-7491 Trondheim, Norway
Cellulose 2006 **13** (2) 171
Optimization of the isolation of nanocrystals from microcrystalline cellulose by acid hydrolysis

Boufi S, Belgacem MN*// *INPG, Ecole Francaise Papeterie & Ind Graph, BP 65, FR-38402 St Martin d'Heres, France
Cellulose 2006 **13** (1) 81
Modified cellulose fibres for adsorption of dissolved organic solutes

Calvini P, Gorassini A, Luciano G, Franceschi E// Minist Beni Culturali, SBAP, Via Balbi 10, IT-16126 Genoa, Italy
Vib Spectrosc 2006 **40** (2) 177
FTIR and WAXS analysis of periodate oxycellulose: Evidence for a cluster mechanism of oxidation

Chen XM, Burger C, Fang DF, Ruan D, Zhang L, Hsiao BS*, Chu B// *SUNY Stony Brook, Dept Chem, Stony Brook, NY 11794, USA
Polymer 2006 **47** (8) 2839
X-ray studies of regenerated cellulose fibers wet spun from cotton linter pulp in NaOH/thiourea aqueous solutions

Dai SS, Ye L*, Huang RH// *Sichuan Univ, Polymer Res Inst, State Key Lab Polymer Mat Engn, CN-610065 Chengdu, Peoples Rep China
J Appl Polym Sci 2006 **100** (4) 2824
A study on the solution behavior of IPBC-hydrophobically-modified hydroxyethyl cellulose

Delattre C, Michaud P*, Elboutachfaiti R, Courtois B, Courtois J// *Univ Blaise Pascal - CUST, LGCB, Unite Biochim Appl, 24 Ave Landais, FR-63174 Aubiere, France
Cellulose 2006 **13** (1) 63
Production of oligocellouronates by biodegradation of oxidized cellulose

Duarte AP, Cidade MT*, Bordado JC// *New University Lisbon, Faculty Science & Technol, Dept Mat Sci, Campus Caparica, PT-2829-516 Caparica, Portugal
J Appl Polym Sci 2006 **100** (5) 4052
Cellulose acetate reverse osmosis membranes: Optimization of the composition

El-Zawawy WK// Natl Res Ctr, Cellulose & Paper Dept, Cairo, Egypt
J Appl Polym Sci 2006 **100** (3) 1842
Blended graft copolymer of carboxymethyl cellulose and poly(vinyl alcohol) with banana fiber

Frey MW, Li L, Xiao M, Gould T// Cornell Univ, Coll Human Ecol, Dept Text & Apparel, 299 MVR Hall, Ithaca, NY 14853, USA
Cellulose 2006 **13** (2) 147
Dissolution of cellulose in ethylene diamine/salt solvent systems

Gadhe JB, Gupta RB*, Elder T//*Auburn Univ, Dept Chem Engn, Auburn, Al 36849, USA
Cellulose 2006 **13** (1) 9
Surface modification of lignocellulosic fibers using high-frequency ultrasound

Gindl W, Konnerth J, Schoberl T// BOKU Vienna, Dept Mat Sci & Proc Engn, Peter Jordan Str 82, AT-1190 Vienna, Austria
Cellulose 2006 **13** (1) 1
Nanoindentation of regenerated cellulose fibres

He W, Du YM* Fan LH// *Wuhan Univ, Dept Environm Sci, CN-430072 Wuhan, Peoples Rep China
J Appl Polym Sci 2006 **100** (3) 1932
Study on volume ratio and plasticizer screening of free coating membranes composed of ethyl cellulose and chitosan

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 Books, reviews & symposia; 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(06)00445-0

Hofstetter K, Hinterstoisser B, Salmen L// Vienna Univ Technol, Inst Mech Mat & Struct, Karlspl 13-202, AT-1040 Vienna, Austria
Cellulose 2006 **13** (2) 131
Moisture uptake in native cellulose - The roles of different hydrogen bonds: A dynamic FT-IR study using deuterium exchange

Hong L, Wang YL, Jia SR, Huang Y, Gao C, Wan YZ*// *Tianjin Univ, Sch Mat Sci & Engn, CN-300072 Tianjin, Peoples Rep China
Mater Lett 2006 **60** (13-14) 1710
Hydroxyapatite/bacterial cellulose composites synthesized *via* a biomimetic coute

Ishii D, Tatsumi D*, Matsumoto T, Murata K, Hayashi H, Yoshitani H// *Kyoto Univ, Grad Sch Agr, Div Forest & Biomat Sci, Kitashirakawa Oiwake cho, Sakyo ku, Kyoto 606 8502, Japan
Macromol Biosci 2006 **6** (4) 293
Investigation of the structure of a cellulose in a LiCl/DMAc solution and its gelation behavior by small-angle X-ray scattering measurements

Koschella A, Fenn D, Heinze T*// *Univ Jena, Kompetenz Zentrum Polysaccharidforschung, Humboldtstr 10, DE-07743 Jena, Germany
Polym Bull 2006 **57** (1) 33
Water soluble 3-mono-*O*-ethyI cellulose: Synthesis and characterization

Krakhmalev VA, Paiziev AA*// *Uzbek Acad Sci, Arifov Inst Electronics, F Khodjaeva Str 33, UZ-700125 Tashkent, Uzbekistan
Cellulose 2006 **13** (1) 45
Spiral structures of cotton fiber

Kuang QL, Cheng GX*, Zhao J, Li YJ// *Tianjin Univ, Sch Mat Sci & Engn, CN-300072 Tianjin, Peoples Rep China
J Appl Polym Sci 2006 **100** (5) 4120
Thermogelation hydrogels of methylcellulose and glycerol-methylcellulose systems

Li Q, Ye L*, Cai Y, Huang RH// *Sichuan Univ, Polymer Res Inst, State Key Lab Polymer Mat Engn, CN-610054 Chengdu, Peoples Rep China
J Appl Polym Sci 2006 **100** (4) 3346
Study of rheological behavior of hydrophobically modified hydroxyethyl cellulose

Luo J, Sun Y*// *Univ Texas, Dept Human Ecol, Austin, Tx 78712, USA
J Appl Polym Sci 2006 **100** (4) 3288
Acetylation of cellulose using recyclable polymeric catalysts

Marcovich NE, Auad ML, Bellesi NE, Nutt SR, Aranguren MI*// *Univ Mar del Plata, INTEMA, Dept Chem Engn, AR-7600 Mar del Plata, Argentina
J Mater Res 2006 **21** (4) 870
Cellulose micro/nanocrystals reinforced polyurethane

Nakashima J, Heathman A, Brown RM*// *Univ Texas Sch Biol Sci, Sect Mol Genet & Microbiol, 1 Univ Stn A5000, Austin, TX 78712, USA
Cellulose 2006 **13** (2) 181
Antibodies against a *Gossypium hirsutum* recombinant cellulose synthase (Ces A) specifically label cellulose synthase in *Mirasterias denticulata*

Notingher PV, Panaitescu D, Vuluga Z, Iorga M, Paven H, Forea D// Politehnica Univ, 313 Splaiul Indepententei, RO-060042 Bucharest, Romania
J Optoelectron Adv Mater 2006 **8** (2) 687
The effect of water on electrical properties of polymer composites with cellulose fibers

Notley SM, Eriksson M, Wagberg L, Beck S, Gray DG// Australian Natl Univ, Res Sch Phys Sci, Dept Appl Math, Canberra, ACT 0200, Australia
Langmuir 2006 **22** (7) 3154
Surface forces measurements of spin-coated cellulose thin films with different crystallinity

Ostenson M, Jarund H, Toriz G, Gatenholm P*// *Chalmers Univ Technol, Dept Mat & Surface Chem, Kemivagen 10, SE-41296 Gothenburg, Sweden
Cellulose 2006 **13** (2) 157
Determination of surface functional groups in lignocellulosic materials by chemical derivatization and ESCA analysis

Ouajai S, Shanks RA*// *RMIT Univ, GPO Box 2476V, Melbourne, Vic 3001, Australia
Cellulose 2006 **13** (1) 31
Solvent and enzyme induced recrystallization of mechanically degraded hemp cellulose

Park S, Venditti RA*, Jameel H, Pawlak JJ// *Nth Carolina State Univ, Dept Wood & Paper Sci, Raleigh, NC 27695, USA
Cellulose 2006 **13** (1) 23
Hard to remove water in cellulose fibers characterized by high resolution thermogravimetrie analysis - Methods development

Peura M, Grotkopp I, Lemke H, Vikkula A, Laine J, Muller M, Serimaa R*// *Univ Helsinki, Dept Phys Sci, Div X-ray Phys, POB 64, FI-00014 Helsinki, Finland
Biomacromolecules 2006 **7** (5) 1521
Negative Poisson ratio of crystalline cellulose in Kraft cooked Norway spruce

Peydecastaing J, Girardeau S, Vaca-Garcia C, Borredon ME// INP, Ecole Natl Super Ingn Arts Chim & Technol, INRA UMR 1010, Lab Chim Agroind, 118 Route Narbonne, FR-31077 Toulouse 4, France
Cellulose 2006 **13** (1) 95
Long chain cellulose esters with very low DS obtained with non-acidic catalysts

Roy D// Univ Leeds, Dept Colour & Polymer Chem, Leeds LS2 9JT, England
Aust J Chem 2006 **59** (3) 229
Controlled modification of cellulosic surfaces *via* the reversible addition-fragmentation chain transfer (RAFT) graft polymerization process

Shaikh VAE, Maldar NN, Lonikar SV, Rajan CR, Ponrathnam S// Shivaji Univ, Ctr Postgrad Studies, Opp Octroi Naka, Solapur-Pune Rd, Kegaon, IN-413002 Solapur, India
J Appl Polym Sci 2006 **100** (3) 1995
Thermotropic behavior of lithocholic acid derivative linked hydroxyethyl cellulose

Shibata I, Yanagisawa M, Saito T, Isogai A*// *Univ Tokyo, Grad Sch Agr & Life Sci, 1-1-1 Yayoi, Bunkyo ku, Tokyo 113 8657, Japan
Cellulose 2006 **13** (1) 73
SEC-MALS analysis of cellouronic acid prepared from regenerated cellulose by TEMPO-mediated oxidation

Vlcek P, Janata M, Latalova P, Kriz J, Cadova E, Toman L// Acad Sci Czech Rep, Inst Macromol Chem, Heyrovsky Sq 2, CZ-16206 Prague, Czech Republic
Polymer 2006 **47** (8) 2587
Controlled grafting of cellulose diacetate

Wada M, Nishiyama Y, Langan P*// *Univ Tokyo, Grad Sch Agr & Life Sci, Dept Biomat Sci, Tokyo 113 8657, Japan
Macromolecules 2006 **39** (8) 2947
X-ray structure of ammonia-cellulose I: New insights into the conversion of cellulose I to cellulose III

Wang LL, Xu YS*// *Tianjin Univ, Sch Chem Engn & Technol, CN-300072 Tianjin, Peoples Rep China
Cellulose 2006 **13** (2) 191
Preparation and characterization of graft copolymerization of ethyl acrylate onto hydroxypropyl methylcellulose in aqueous medium

Yamashita Y, Endo T// Japan Tobacco Inc, Cigarette Mat R&D Div, 3-2-34 Sakae cho, Asaka, Saitama 351 0012, Japan
J Appl Polym Sci 2006 **100** (3) 1816
Deacetylation behavior of binary blend films of cellulose acetate and various polymers

Yanai H, Sato T*// *Osaka Univ, Dept Macromol Sci, 1-1 Machikaneyama cho, Toyonaka, Osaka 560 0043, Japan
Polym J 2006 **38** (3) 226
Local conformation of the cellulosic chain in solution

Ye DY, Farriol X// Sth China Univ Technol, Sch Chem Engn & Energy Engn, Chem Engn Res Inst, CN-510640 Ghangzhou, Peoples Rep China
J Appl Polym Sci 2006 **100** (3) 1785
Factors influencing molecular weights of methylcelluloses prepared from annual plants and juvenile eucalyptus

Zhou LM, Xu Q, Wang DN*// *East China Univ Sci & Technol, Sch Mat Sci & Engn, 130 Meilong Rd, CH-200237 Shanghai, Peoples Rep China
J Appl Polym Sci 2006 **100** (4) 2832
Novel crosslinked nonlinear optical materials based on cellulose diacetate

Zhou LM// East China Univ Sci & Technol, Sch Mat Sci & Engn, 130 Meilong Rd, CN-200237 Shanghai, Peoples Rep China
Cellulose 2006 **13** (2) 119
NLO polymers based on cellulose diacetate and a cationic chromophore

3. Cellulose-degrading enzymes

Adden R, Melander C, Brinkmalm G, Gorton L, Mischnick P*// *Tech Univ Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, DE-38106 Braunschweig, Germany
Biomacromolecules 2006 **7** (5) 1399
New approaches to the analysis of enzymatically hydrolyzed methyl cellulose. Part 1. Investigation of the influence of structural parameters on the extent of degradation

Melander C, Adden R, Brinkmalm G, Gorton L, Mischnick P*// *Address as above
Biomacromolecules 2006 **7** (5) 1410
New approaches to the analysis of enzymatically hydrolyzed methyl cellulose. Part 2. Comparison of various enzyme preparations

4. Chitin/Chitosan

Arbatskii AP, Traktina EP, Smirnova LA// Nizhni Novgorod State Tech Univ, Nizhni Novgorod, Russia
Russ J Appl Chem-Eng Tr 2006 **79** (2) 272
A titrimetric study of chemical properties of chitosan

Azab AK, Orkin B, Doviner V, Nissan A, Klein M, Srebnik M, Rubinstein A*// *Hadassah Univ Hosp, Med Ctr, Dept Pediat Surg, IL-920 Jerasalem, Israel
J Controlled Release 2006 **111** (3) 281

Crosslinked chitosan implants as potential degradable devices for brachytherapy: *In vitro* and *in vivo* analysis

Cardenas G, Cabrera G, Taboada E, Rinaudo M// Concepcion Univ, Fac Chem, Polymer Dept, Casilla 160/C, Concepcion, Chile
J Chil Chem Soc 2006 **51** (1) 815
Synthesis and characterization of chitosan alkyl phosphate

Chang YC, Chang SW, Chen DH*// *Natl Cheng Kung Univ, Dept Chem Engn, 1 Ta Hsueh Rd, Tainan 701, Taiwan
React Funct Polym 2006 **66** (3) 335
Magnetic chitosan nanoparticles: Studies on chitosan binding and adsorption of Co(II) ions

Chen Y, Tan HM*// *Beijing Inst Technol, Sch Mat Sci & Engn, 5 Sth St Zhongguancun, CN-100081 Beijing, Peoples Rep China
Carbohydr Res 2006 **341** (7) 887
Crosslinked carboxymethylchitosan-*g*-poly(acrylic acid) copolymer as a novel superabsorbent polymer

Chenite A, Gori S, Shive M, Desrosiers E, Buschmann MD// Biosyntech Inc, Dept Chem, 475 Blvd Armand-Frappier, Laval, Quebec, Canada H7V 4B3
Carbohydr Polym 2006 **64** (3) 419
Monolithic gelation of chitosan solutions *via* enzymatic hydrolysis of urea

Croll TI, O'Connor AJ, Stevens GW, Cooper-White JJ*// *Univ Queensland, Australian Inst Bio- & Nanotechnol, Brisbane, Qld 4072, Australia
Biomacromolecules 2006 **7** (5) 1610
A blank slate? Layer-by-layer deposition of hyaluronic acid and chitosan onto various surfaces

Darder M, Lopez-Bianco M, Aranda P, Aznar AJ, Bravo J, Ruiz-Hitzky E*// *Inst Ciencia Mat Madrid - CSIC, ES-28049 Madrid, Spain
Chem Mater 2006 **18** (6) 1602
Microfibrous chitosan-sepiolite nanocomposites

Ding SM, Zhang XY, Feng XH, Wang YT*, Ma SL, Peng Q, Zhang WA// *Wuhan Univ, Coll Resources & Environm Sci, CN-430072 Wuhan, Hubei, Peoples Rep China
React Funct Polym 2006 **66** (3) 357
Synthesis of *N*, *N*′-diallyl dibenzo 18-crown-6 crown ether crosslinked chitosan and their adsorption properties for metal ions

Du CH, Zhu BK, Chen JY, Xu YY// Zhejiang Univ Sci & Technol, Inst Polymer Sci, CN-310027 Hangzhou, Peoples Rep China
Polym Int 2006 **55** (4) 377
Metal ion permeation properties of silk fibroin/chitosan blend membranes

Feng YH, Han ZG, Peng J*, Lu J, Xue B, Li L, Ma HY, Wang EB// *NE Normal Univ, Inst Polyoxometalate Chem, Dept Chem, CN-130024 Changchun, Peoples Rep China
Mater Lett 2006 **60** (13-14) 1588
Fabrication and characterization of multilayer films based on Keggin-type polyoxometalate and chitosan

Grant J, Cho J, Allen C*// *Univ Toronto, Leslie Dan Fac Pharm, Toronto, Ontario, Canada M5S 2S2
Langmuir 2006 **22** (9) 4327
Self-assembly and physicochemical and rheological properties of a polysaccharide-surfactant system formed from the cationic biopolymer chitosan and nonionic sorbitan esters

Honma T, Zhao L, Asakawa N, Inoue Y*// *Tokyo Inst Technol, Dept Biomol Engn, 4249-B55 Nigatsuta, Midori ku, Yokohama, Kanagawa 226 850, Japan
Macromol Biosci 2006 **6** (3) 241
Poly(ε-caprolactone)/chitin and poly(ε-caprolactone)/chitosan blend films with compositional gradients: Fabrication and their biodegradability

Joshi JA, Sinha VK*// *VP & RPTP Sci Coll, Dept Ind Chem, IN-388120 Vallabh Vidyanagar, India
Polymer 2006 **47** (6) 2198
Graft copolymerization of 2-hydroxyethylmethacrylate onto carboxymethyl chitosan using CAN as an initiator

Kjartansson GT, Zivanovic S*, Kristbergsson K, Weiss J// *Univ Tennessee, Dept Food Sci & Technol, 101 McLeod Hall, Knoxville, Tn 37996, USA
J Agric Food Chem 2006 **54** (9) 3317
Sonication-assisted extraction of chitin from shells of fresh water prawns (*Macrobrachium rosenbergii*)

Kjm KM, Son JH, Kim SK, Weller CL, Hanna MA*// *Univ Nebraska, Ind Agr Prod Ctr, 208 LW Chase Hall, Lincoln, Ne 68783, USA
J Food Sci 2006 **71** (3) E119
Properties of chitosan films as a function of pH and solvent type

Kobayashi S, Makino A, Matsumoto H, Kunii S, Ohmae M, Kiyosada T, Makiguchi K, Matsumoto A, Horie M, Shoda SI// Kyoto Univ, Grad Sch Engn, Dept Chem Mat, Kyoto 615 8510, Japan
Biomacromolecules 2006 **7** (5) 1644
Enzymatic polymerization to novel polysaccharides having a glucose-*N*-acetyl-glucosamine repeating unit, a cellulose-chitin hybrid polysaccharide

Lima IS, Lazarin AM, Airoldi C*// *Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13084-971 Campinas, Sao Paulo, Brazil
Carbohydr Polym 2006 **64** (3) 385
Cyclic voltammetric investigations on copper α-*N*,*O*-succinated chitosan interactions

Liu TY, Chen SY*, Li JH, Liu DM// *Natl Chiao Tung Univ, Dept Mat Sci & Engn, 1001 Ta Hsueh Rd, Hsinchu, Taiwan
J Controlled Release 2006 **112** (1) 88
Study on drug release behaviour of CDHA/chitosan nanocomposites—Effect of CDHA nanoparticles

Lu GH, Wang LR, Wang RX, Zeng Y, Huang X// Cent China Normal Univ, Coll Chem, CN-430079 Wuhan, Peoples Rep China
Anal Sci 2006 **22** (4) 575
Determination of chitosan by cathodic stripping voltammetry

Mao SR, Bakowsky U, Jintapattanakit A, Kissel T*// *University Marburg, Department Pharmaceut & Biopharm, Ketzerbach 63, DE-35032 Marburg, Germany
J Pharm Sci 2006 **95** (5) 1035
Self-assembled polyelectrolyte nanocomplexes between chitosan derivatives and insulin

Mathew S, Brahmakumar M, Abraham TE*// *CSIR Reg Res Lab, Chem Sci & Technol Div, IN-695019 Trivandrum, India
Biopolymers 2006 **82** (2) 176
Microstructural imaging and characterization of the mechanical, chemical, thermal, and swelling properties of starch-chitosan blend films

Ngah WSW, Fatinathan S// Univ Sains Malaysia, Sch Chem Sci, MY-11800 Penang, Malaysia
Colloid Surface A 2006 **277** (1-3) 214
Chitosan flakes and chitosan-GLA beads for adsorption of *p*-nitrophenol in aqueous solution

Nge KL, Nwe N, Chandrkrachang S, Stevens WF*// *Asian Inst Technol, Biproc Technol, Food Engn & Bioproc Technol, POB 4, Klong Luang, TH-12120 Pathumthani, Bangkok, Thailand
Plant Sci 2006 **170** (6) 1185
Chitosan as a growth stimulator in orchid tissue culture

Otake K, Shimomura T, Goto T, Imura T, Furaya T, Yoda S, Takebayashi Y, Sakai H, Abe M// AIST, Nanotechnol Res Inst, Higashi 1-1-1, Tsukuba Cent 5, Tsukuba, Ibaraki 305 8565, Japan
Langmuir 2006 **22** (9) 4054
One-step preparation of chitosan-coated cationic liposomes by an improved supercritical reverse-phase evaporation method

Peng L, Cheng XR*, Wang JW, Xu DX, Wang G// *Wuhan Univ, Sch Stomatol, Minist Educat Key Lab Oral Biomed Engn, CN-430079 Wuhan, Peoples Rep China
J Bioact Compat Polym 2006 **21** (3) 207
Preparation and evaluation of porous chitosan/collagen scaffolds for periodontal tissue engineering

Prego C, Torres D, Fernandez-Megia E, Novoa-Carballal R, Quinoa E, Alonso MJ*// *Univ Santiago de Compostela, Sch Pharm, Dept Pharmaceut Technol, Campus Sur, ES-15782 Santiago de Compostela, Spain
J Controlled Release 2006 **111** (3) 299
Chitosan-PEG nanocapsules as new carriers for oral peptide delivery – Effect of chitosan pegylation degree

Sun LP, Du YM*, Fan LH, Chen X, Yang JH// *Wuhan Univ, Coll Resource & Environm Sci, Dept Environm Sci, CN-430072 Wuhan, Hubei, Peoples Rep China
Polymer 2006 **47** (6) 1796
Preparation, characterization and antimicrobial activity of quaternized carboxymethyl chitosan and application as pulp-cap

Tsai BH, Lin CH, Lin JC*// *Natl Cheng Kung Univ, Dept Chem Engn, Tainan 701, Taiwan
J Appl Polym Sci 2006 **100** (3) 1794
Synthesis and property evaluations of photocrosslinkable chitosan derivative and its photocopolymerization with poly(ethylene glycol)

Wang C, Li G*, Tao S, Guo R, Yan Z// *Tsinghua Univ, Dept Chem, CN-100084 Beijing, Peoples Rep China
Carbohydr Polym 2006 **64** (3) 466
Crystalline and micellar properties of amphiphilic biodegradable chitooligosaccharide-graft-poly(ε-caprolactone)copolymers

Wang F, Zhang Y*, Fan XP, Wang MQ// *Natl Univ Singapore, Fac Engn, Div Bioengn, Block, EA-03-12, 9 Engn Dr 1, SG-117576 Singapore, Rep Singapore
Nanotechnology 2006 **17** (5) 1527
One-pot synthesis of chitosan/LaF_3:Eu^{3+} nanocrystals for bio-applications

Yang ZK, Shu JL, Zhang L, Wang YT// Wuhan Univ, Dept Environm Sci, CN-430079 Wuhan, Peoples Rep China
J Appl Polym Sci 2006 **100** (4) 3018
Preparation and adsorption behavior for metal ions of cyclic polyamine derivative of chitosan

Yi Y, Wang YT*, Ye FY// *Wuhan Univ, Coll Resource & Environm Sci, CN-430072 Wuhan, Hubei, Peoples Rep China
Colloid Surface A 2006 **277** (1-3) 69
Synthesis and properties of diethylene triamine derivative of chitosan

Yoon K, Kim K, Wang XF, Fang DF, Hsiao BS*, Chu B// *Stony Brook Univ, Dept Chem, Stony Brook, NY 11794, USA
Polymer 2006 **47** (7) 2434
High flux ultrafiltration membranes based on electrospun nanofibrous PAN scaffolds and chitosan coating

Yu SY, Hu JH, Pan XY, Yao P*, Jiang M// *Fudan Univ, Dept Macromol Sci, CN-200433 Shanghai, Peoples Rep China
Langmuir 2006 **22** (6) 2754
Stable and pH-sensitive nanogels prepared by self-assembly of chitosan and ovalbumin

Zeng R, Fu H*, Zhao YF// Jinan Univ, Sch Sci & Engn, Dept Mat Sci & Engn, CN-510632 Guangzhou, Peoples Rep China
Macromol Rapid Commun 2006 **27** (7) 548
Synthesis of novel biomimetic zwitterionic phosphorylcholine-bound chitosan derivative

Zhang H, Mardyani S, Chan WCW*, Kumacheva E// *Univ Toronto, Inst Biomat & Biomed Engn, 4 Taddle Creek Rd, Toronto, On, Canada M5S 3G9
Biomacromolecules 2006 **7** (5) 1568
Design of biocompatible chitosan microgels for targeted pH-mediated intra-cellular release of cancer therapeutics

Zhang XY, Ding SM, Wang YT*, Feng XH, Peng Q, Ma SH// *Wuhan Univ, Coll Resources & Environm Sci, CN-430072 Wuhan, Peoples Rep China
J Appl Polym Sci 2006 **100** (4) 2705
Synthesis and adsorption properties of metal ions of novel azacrown ether crosslinked chitosan

Zhao L, Xu L, Mitomo H, Yoshi F// Nissin Electric Co Ltd, R&D Labs, Adv Mater Res Ctr, 47 Umezu-Takase-cho, Ukyo-ku, Kyoto 615 8686, Japan
Carbohydr Polym 2006 **64** (3) 473
Synthesis of pH-sensitive PVP/CM-chitosan hydrogels with improved surface property by irradiation

5. Cyclodextrins

Cucinotta V, Giuffrida A, Maccarrone G, Messina M, Vecchio G// Univ Catania, Dept Chem Sci, Viale A Doria 6, IT-95125 Catania, Italy
Electrophoresis 2006 **27** (8) 1471
Ligand exchange capillary electrophoresis by cyclodextrin derivatives, a powerful tool for enantiomeric separations

Kohata S, Hamabe Y, Jyodoi K, Kurihara M, Kubo T// Yatsushiro Natl Tech Coll, Dept Bioengn, 2627 Hirayamashin-machi, Yatsushiro, Kumamoto 866 8501, Japan
Bull Chem Soc Jpn 2006 **79** (2) 294
Characterization by simultaneous X-ray diffractometry and differential scanning calorimetry of the exothermic change of dimethyl-(β-cyclodextrin prepared by drying after solvent dissolution

6. Lignin

Fernandes DM, Hechenleitner AAW, Job AE, Radovanocic E, Pineda EAG*// *Univ Estadual Maringa, Dept Quim, Av Colombo 5790, BR-87020-900 Maringa, Parana, Brazil
Polym Degrad Stabil 2006 **91** (5) 1192
Thermal and photochemical stability of poly(vinyl alcohol)/modified lignin blends

7. Lipopolysaccharides

Corsaro MM, Gambacorta A, Iadonisi A, Lanzetta R, Naldi T, Nicolaus B, Romano I, Ummarino S, Parrilli M// Univ Naples Federico II, Dept Organ Chem & Biochem, Complesso Univ Monte S Angelo, Via Cintia 4, IT-80126 Naples, Italy
Eur J Org Chem 2006 (7) 1801
Structural determination of the O-chain polysaccharide from the lipopolysaccharide of the haloalkaliphilic *Halomonas pantelleriensis* bacterium

Karapetyan G, Kaczynski Z, Lacobellis NS, Evidente A, Holst O*// *Leibniz Ctr Med & Biosci, Div Struct Biochem, Res Ctr Borstel, DE-23845 Borstel, Germany
Carbohydr Res 2006 **341** (7) 930
The structure of the O-specific polysaccharide of the lipopolysaccharide from *Burkholderia gladioli* pv. *agaricicola*

8. Pectin

Contreras-Esquivel JC, Voget CE, Vita CE, Espinoza-Perez JD, Renard CMGC// Univ Autonoma Coahuila, Sch Chem, Food Res Dept, Bioproc & Mol Biol Unit, Saltillo, Coahuila, Mexico
Food Sci Biotechnol 2006 **15** (2) 163
Enzymatic extraction of lemon pectin by *endo*-polygalacturonase from *Aspergillus niger*

Werner B, Bu HT, Kjoniksen AL*, Sande SA, Nystrom B// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
Polym Bull 2006 **56** (6) 579
Characterization of gelation of aqueous pectin *via* the Ugi multicomponent condensation reaction

9. Starch

Ademovic Z, Gonera A, Mischnick P, Klee D*// *Univ Aachen, Rhein Westfal TH Aachen, Inst Tech & Makromol Chem, Pauwelsstr 8, DE-52056 Aachen, Germany
Biomacromolecules 2006 **7** (5) 1429
Biocompatible surface preparation using amino-functionalized amylose

Bagdi K, Muller P, Pukanszky B*// *Budapest University Technology & Economics, Dept Plast & Rubber Technol, POB 91, HU-1521 Budapest, Hungary
Compos Interface 2006 **13** (1) 1
Thermoplastic starch/layered silicate composites: Structure, interaction, properties

Bajpai SK, Saxena S// Govt Autonomous Sci Coll, Dept Chem, Polymer Res Lab, IN-482001 Jabalpur, India
J Appl Polym Sci 2006 **100** (4) 2975
Flow through diffusion cell method: A novel approach to study *in vitro* enzymatic degradation of a starch-based ternary semi-interpenetrating network for gastro-intestinal drug delivery

Ban WP, Song J, Argyropous DS, Lucia LA*// *Georgia Inst Technol, Inst Paper Sci & Technol, 500 10th St, Atlanta, Ga 30332, USA
J Appl Polym Sci 2006 **100** (3) 2542
Improving the physical and chemical functionality of starch-derived films with biopolymers

Bayer RK, Balta-Calleja FJ// Inst Estructura Mat - CSIC, Serrano 119, ES-28006 Madrid, Spain
J Appl Polym Sci 2006 **100** (5) 3832
Nanostructure development in wet amorphous amylopectin as revealed by *in situ* X-ray scattering methods

Biswas A, Shogren RL, Kim S, Willett JL// USDA/Agr Res Serv, Nat Ctr Agr Utilizat Res, 1815 Nth Univ Str, Peoria, II 61604, USA
Carbohydr Polym 2006 **64** (3) 484
Rapid preparation of starch maleate half-esters

Cinelli P, Chiellini E, Lawton JW, Imam SH*// *USDA/ARS, Western Reg Res Ctr, Bioprod Chem & Engn Res, 800 Buchanan St, Albany, Ca 94710, USA
Polym Degrad Stabil 2006 **91** (5) 1147
Foamed articles based on potato starch, corn fibers and poly(vinyl alcohol)

Debet MR, Gidley MJ*// *Univ Queensland, Ctr Nutr & Food Sci, Hartley Teakle Bldg, St Lucia, Brisbane, Qld 4072, Australia
Carbohydr Polym 2006 **64** (3) 452
Three classes of starch granule swelling: Influence of surface proteins and lipids

Glenn GM, Klamczynski AP, Ludvik C, Shey J, Imam SH, Chiou BS, McHugh T, DeGrandi-Hoffman G, Orts W, Wood D, Offeman R// USDA/ARS, Western Region Research Ctr, 800 Buchanan St, Albany, Ca 94710, USA
J Agric Food Chem 2006 **54** (9) 3297
Permeability of starch gel matrices and select films to solvent vapors

Kalambur S, Rizvi SSH// Cornell Univ, Dept Food Sci, Ithaca, NY 14853, USA
Polym Eng Sci 2006 **46** (5) 650
Rheological behavior of starch-polycaprolactone (PCL) nanocomposite melts synthesized by reactive extrusion

Kosan B, Meister F, Liebert T, Heinze T// Thuring Inst Text & Kunststoff Forsch eV, Breitscheidstr 97, DE-07407 Rudolstadt, Germany
Cellulose 2006 **13** (1) 105
Hydrophobic modification of starch *via* grafting with an oxazoline-derivative

Kulicke WM, Heinze T// Univ Hamburg, Inst Tech & Macromol Chem, Bundesstr 46, DE-20146 Hamburg, Germany
Macromol Symposia 2005 **231** (1) 47
Improvements in polysaccharides for use as blood plasma expanders

Lai SM, Don TM, Huang YC// Natl Ilan Univ, Dept Chem & Mat Engn, Ilan 260,Japan
J Appl Polym Sci 2006 **100** (3) 2371
Preparation and properties of biodegradable thermoplastic starch/poly (hydroxy butyrate) blends

Lawton JW, Doane WM, Willett JL// USDA/ARS, Plant Polymer Res Unit, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, II 61604, USA
J Appl Polym Sci 2006 **100** (4) 3332
Aging and moisture effects on the tensile properties of starch/poly(hydroxyester ether) composites

Maharana T, Singh BC*// *Ravenshaw Autonomous Coll, Dept Chem, Biodegradable Polymer Res Lab, IN-753003 Cuttack, Orissa, India
J Appl Polym Sci 2006 **100** (4) 3229
Synthesis and characterization of biodegradable polyethylene by graft copolymerization of starch using glucose-Ce(IV) redox system

Mahmoud KR, Al-Sigeny S, Sharshar T, El-Hamshary H// Tanta Univ, Fac Educat, Phys & Chem Dept, Kafr El-Shaikh, Egypt
Radiat Phys Chem 2006 **75** (5) 590
Positron annihilation study on free volume of amino acid modified, starch-grafted acrylamide copolymer

Miyazawa T, Ohtsu S, Nakagawa Y, Funazukuri T*// *Chuo Univ, Dept Appl Chem, 1-1327 Kasuga, Bunkyo ku, Tokyo 112 8551, Japan
J Mater Sci 2006 **41** (5) 1489
Solvothermal treatment of starch for the production of glucose and malto-oligosaccharides

Nabar Y, Narayan R*, Schindler M// *Michigan State Univ, Dept Chem Engn & Mat Sci, 2527 EB, East Lansing, Mi 48824, USA
Polym Eng Sci 2006 **46** (4) 438
Twin-screw extrusion production and characterization of starch foam products for use in cushioning and insulation applications

Naito S, Fukami S, Mizokami Y, Hirose R, Kawashima K, Takano H, Ishida N, Koizumi M, Kano H// Natl Food Res Inst, 2-1-12 Kannondai, Tsukuba, Ibaraki 305 8642, Japan
Food Sci Technol Res 2005 **11** (2) 194
The effect of gelatinized starch on baking bread

Ohkita T, Lee SH*// *Univ Tennessee, Tennessee Forest Prod Ctr, 2506 Jacob Dr, Knoxville, Tn 37996, USA
J Appl Polym Sci 2006 **100** (4) 3009
Thermal degradation and biodegradability of poly(lactic acid)/corn starch biocomposites

Ratanakamnuan U, Aht-Ong D*// *Chulalongkorn Univ, Fac Sci, Dept Mat Sci, TH-10330 Bangkok, Thailand
J Appl Polym Sci 2006 **100** (4) 2717
Preparation and characterization of low-density polyethylene/banana starch films containing compatibilizer and photosensitizer

Ratanakamnuan U, Aht-Ong D*// *Address as above
J Appl Polym Sci 2006 **100** (4) 2725
Photobiodegradation of low-density polyethylene/banana starch films

Ratnayake WS, Jackson DS*// *Univ Nebraska, Dept Food Sci & Technol, Lincoln, Ne 68583, USA
J Agric Food Chem 2006 **54** (10) 3712
Gelatinization and solubility of corn starch during heating in excess water: New insights

Sanderson JS, Daniels RD, Donald AM*, Blennow A, Engelsen SB// *Univ Cambridge, Cavendish Lab, Madingley Rd, Cambridge CB3 0HE, England
Carbohydr Polym 2006 **64** (3) 433
Exploratory SAXS and HPAEC-PAD studies of starches from diverse plant genotypes

Shogren RL, Fanta GF, Felker FC// USDA/ARS, Plant Polym Unit, Nat Ctr Agr Utilizat Res, 1815 Nth Univ Str, Peoria, II 61604, USA
Carbohydr Polym 2006 **64** (3) 444
X-ray diffraction study of crystal transformations in spherulitic amylose/lipid complexes from jet-cooked starch

Wang JL, Xu SM, Wu RL, Wang JD*, Wei J, Li X, Li H// *Xinjiang University, Coll Chem & Chem Engn, CN-830046 Urumqi, Xinjiang, Peoples Rep China
J Polym Res 2006 **13** (2) 91
Adsorption behavior of acid Yellow G by highly-crosslinked amphoteric starch

Witek M, Peemoeller H, Szymonska J, Blicharska B// Jagiellonian Univ, Inst Phys, Reymonta 4, PL-30059 Krakow, Poland
Acta Phys Pol A 2006 **109** (3) 359
Investigation of starch hydration by 2D time domain NMR

Yan QZ, Zhang WF, Lu GD, Su XT, Ge CC*// *Univ Sci & Technol Beijing, Lab Special Ceram & Powder Met, CN-100083 Beijing, Peoples Rep China
Chem Eur J 2006 **12** (12) 3303
Frontal polymerization synthesis of starch-grafted hydrogels: Effect of temperature and tube size on propagating front and properties of hydrogels

Yoon SD, Chough SH, Park HR*// *Chonnam Natl Univ, Dept Appl Chem Engn, 300 Yongbong dong, Kwangju 500 757, South Korea
J Appl Polym Sci 2006 **100** (3) 2554
Properties of starch-based blend films using citric acid as additive II

Yoon SD, Chough SH, Park HR*// *Address as above
J Appl Polym Sci 2006 **100** (5) 3733
Effects of additives with different functional groups on the physical properties of starch/PVA blend film

10. Starch-degrading enzymes

Anto H, Trivedi UB, Patel KC*// *Sardar Patel Univ, Dept Biosci, IN-388120 Gujarat, Vallabh Vidyanagar, India
Bioresource Technol 2006 **97** (10) 1161
Glucoamylase production by solid-state fermentation using rice flake manufacturing waste products as substrate

Baks T, Janssen AEM, Boom RM// University Wageningen & Research Ctr, Food & Bioproc Engn Grp, POB 8129, NL-6700 EV Wageningen, The Netherlands
Enzyme Microb Technol 2006 **39** (1) 114
The effect of carbohydrates on α-amylase activity measurements

Chough SH, Kim KS, Hyung KW, Cho HI, Park HR, Choi OJ, Song SH, Rogers KR// Chonnam Natl Univ, Dept Chem Engn, Kwangju 500 757, South Korea
Sensor Actuator B-Chem 2006 **114** (2) 573
Identification of botanical origins of starches using a glucose biosensor and amyloglucosidase

Mitidieri S, Martinelli AHS, Schrank A, Vainstein MH// Univ Fed Rio Grande do Sul, Ctr Biotecnol, POB 15005, BR-91501-970 Porto Alegre, RS, Brazil
Bioresource Technol 2006 **97** (10) 1217
Enzymatic detergent formulation containing amylase from *Aspergillus niger*. A comparative study with commercial detergent formulations

11. Polysaccharides - Microbial

Dudikova J, Kolarova N// Slovak Acad Sci, Inst Chem, SK-84538 Bratislava, Slovakia
Chem Pap Chem Zvesti 2006 **60** (1) 69
Extracellular polysaecharides produced by acapsular mutant of *Cryptococcus laurentii*

Han HF, Nakamura N, Zuo F, Hirakawa A, Yokozawa T, Hattori M*// *Toyama Univ, Inst Nat Med, 2630 Sugitani, Toyama 930 0194, Japan
Chem Pharm Bull Tokyo 2006 **54** (4) 496
Protective effects of a neutral polysaccharide isolated from the mycelium of *Antrodia cinnamomea* on *Propionibacterium acnes* and lipopolysaccharide induced hepatic injury in mice

Jana-Sur P, Chakraborty A// Sri Sankara Vidyalaya, Dept Chem, ECR Complex, Lawspet, IN-605008 Pondicherry, India
Colloid Polym Sci 2006 **284** (6) 596
Studies on the interaction of bacterial capsular polysaccharide-*Klebsiella* K16 with cationic and mixed surfactants

Lin ES, Sung SC// Vanung Univ, Dept Cosmet Sci, 1 Vannung Rd, Taoyuan 32045, Taiwan
Int J Food Microbiol 2006 **108** (2) 182
Cultivating conditions influence exopolysaccharide production by the edible Basidiomycete *Antrodia cinnamomea* in submerged culture

Mondal S, Chakraborty I, Rout D, Islam SS*// *Vidyasagar Univ, Dept Chem & Chem Technol, IN-721102 Midnapore, India
Carbohydr Res 2006 **341** (7) 878
Isolation and structural elucidation of a water-soluble polysaccharide (PS-I) of a wild edible mushroom, *Termitomyces striatus*

Nitta Y, Ikeda S, Nishinari K// Nara Womens Univ, Fac Human Life & Environm, Dept Food Sci & Nutr, Nara 630 8506, Japan
Int J Biol Macromol 2006 **38** (2) 145
The reinforcement of gellan gel network by the immersion into salt solution

Oyaizu K, Yamaguchi A, Hayashi T, Nakamura Y, Yoshii D, Ito Y, Yuasa M*// *Tokyo Univ Sci, Inst Colloid & Interface Sci, 1-3 Kagurazaka, Shinjyuku ku, Tokyo 162 8601, Japan
Polym J 2006 **38** (4) 343
Controlled oxidation of dextran for evolution of polyether segment bearing pendant carboxyl groups for corrosion inhibition applications

Xu F, Persson B, Lofas S, Knoll W*// *Max Planck Inst Polymer Res, Ackermannweg 10, DE-55128 Mainz, Germany
Langmuir 2006 **22** (7) 3352
Surface plasmon optical studies of carboxymethyl dextran brushes *versus* networks

12. Polysaccharides - Plant

Beusheva OS, Mus'ko NP, Chemeris MM// Polzunov State Tech Univ, Barnaul, Russia
Russ J Appl Chem-Eng Tr 2006 **79** (2) 339
The role of readily hydrolyzable polysaccharides of larch wood in manufacture of board materials

Chana A, Tromelin A*, Andriot I, Guichard E// *UMR FLAVIC, INRA-ENESAD, 17 rue Sully, FR-21065 Dijon, France
J Agric Food Chem 2006 **54** (10) 3679

Flavor release from ι-carrageenan matrix: A quantitative structure-property relationships approach

Doyle JP, Giannouli P, Martin EJ, Brooks M, Morris ER*// *Univ Coll Cork, Dept Food & Nutr Sci, Cork, Rep Ireland
Carbohydr Polym 2006 **64** (3) 391
Effect of sugars, galactose content and chainlength on freeze-thaw gelation of galactomannans

Grondahl M, Gustafsson A, Gatenholm P*// *Chalmers Univ Technol, Dept Chem & Biol Engn, SE-41296 Gothenburg, Sweden
Macromolecules 2006 **39** (7) 2718
Gas-phase surface fluorination of arabinoxylan films

Helbert W, Nyvall-Collen P, Michel G, Czjzek M// Equipe Struct Polysaccharides Marins, FR-29683 Roscoff, France
Macromol Symposia 2005 **231** (1) 11
Microscopic and molecular insights into heterogeneous phase degradation of agars and carrageenans by marine bacterial galactanases

Jhurry D, Bhaw-Luximon A, Mardamootoo T, Ramanjooloo A// Univ Mauritius, Dept Chem, Reduit, Mauritius
Macromol Symposia 2005 **231** (1) 16
Biopolymers from the Mauritian marine environment

Kalyani S, Smitha B, Sridhar S*, Krishnaiah A// *Indian Inst Chem Technol, Dept Chem Engn, Chem Engn Div, Membrane Separ Grp, Uppal Rd, Habsiguda, IN-500009 Hyderabad, India
Carbohydr Polym 2006 **64** (3) 425
Blend membranes of sodium alginate and hydroxyethylcellulose for per-vaporation-based enrichment of *t*-butyl alcohol

Li B, Peng JL, Yie X, Xie BJ// Huazhong Agr Univ, Coll Food Sci & Technol, CN-430070 Wuhan, Peoples Rep China
J Food Sci 2006 **71** (3) C174
Enhancing physical properties and antimicrobial activity of konjac glucomannan edible films by incorporating chitosan and nisin

Matsuhiro B, Presle LC, Saenz C, Urzua CC// Univ Santiago Chile, Fac Quim & Biol, Dept Ciencias Quim, Casilla 40, Correo 33, Santiago, Chile
J Chil Chem Soc 2006 **51** (1) 809
Structural determination and chemical modifications of the polysaccharide from seeds of *Prosopis chilensis* Mol. (Stuntz)

Mazutti M, Bender JP, Treichel H, Di Luccio M*// *Univ Reg Integrada Alto Uruguai & Misspoes, Dept Engn Alimentos, Av Sete Setembro 1621, BR-99700-000 Erechim, Brazil
Enzyme Microb Technol 2006 **39** (1) 56
Optimization of inulinase production by solid-state fermentation using sugarcane bagasse as substrate

Miyazawa T, Funazukuri T*// *Chuo Univ, Dept Appl Chem, 1-13-27 Kasuga, Bunkyo ku, Tokyo 112 8551, Japan
Carbohydr Res 2006 **341** (7) 870
Noncatalytic hydrolysis of guar gum under hydrothermal conditions

Nisbet DR, Crompton KE, Hamilton SD, Shirakawa S, Prankerd RJ, Finkelstein DI, Horne MK, Forsythe JS*// *Monash Univ, Dept Mat Engn, Wellington Rd, Clayton, Vic 3800, Australia
Biophys Chem 2006 **121** (1) 14
Morphology and gelation of thermosensitive xyloglucan hydrogels

Poli A, Manca MC, De Giulio A, Stazzullo G, De Rosa S, Nicolaus B// CNR, Ist Chim Biomol, Via Campi Flegrei 34, IT-80078 Pozzuoli, NA, Italy
J Nat Prod 2006 **69** (4) 658
Bioactive exopolysaccharides from the cultured cells of tomato, *Lycopersicon esculentum* var., San Marzano

Qin YM// Jiaxing Coll, Biochem Mat Res & Dev Ctr, CN-314001 Jiaxing, Peoples Rep China
J Appl Polym Sci 2006 **100** (3) 2516
The characterization of alginate wound dressings with different fiber and textile structures

Reis AV, Guilherme MR, Cavalcanti OA, Rubira AF, Muniz EC*// *Univ Estadual Maringa, Dept Quim, GMPC, Maringa, Parana, Brazil
Polymer 2006 **47** (6) 2023
Synthesis and characterization of pH-responsive hydrogels based on chemically modified Arabic gum polysaccharide

Sanghi R, Bhattacharya B, Singh V// Indian Inst Technol, Facil Ecol & Anal Technol, Ecol & Anal Testing, Sthn Labs 302, IN-208016 Kanpur, Uttar Pradesh, India
Bioresource Technol 2006 **97** (10) 1259
Use of *Cassia javahikai* seed gum and gum-*g*-polyacrylamide as coagulant aid for the decolorization of textile dye solutions

Sarbu A, De Pinho MN, Freixo MD, Goncalves F, Udrea I// Univ Bucharest, Res Ctr Environm Prot & Valorisation Wastes, Sector 5, Bucharest, Romania
Enzyme Microb Technol 2006 **39** (1) 125
New method for the covalent immobilization of a xylanase by radical grafting of acrylamide on cellulose acetate membranes

Singh V, Malviya T// Univ Allahabad, Dept Chem, IN-211002 Allahabad, India
Carbohydr Polym 2006 **64** (3) 481
A non-ionic glucomannan from the seeds of an indigenous medicinal plant: *Bryonia lacinosa*

Srivastava A, Behari K*// *Univ Allahabad, Dept Chem, Polymer Sci Res Lab, IN-211002 Allahabad, India
J Appl Polym Sci 2006 **100** (3) 2480
Synthesis and characterization of graft copolymer (guar gum-g-*N*-vinyl-2-pyrrolidone) and investigation of metal ion sorption and swelling behavior

Toivanen TJ, Alen R// Univ Jyvaskyla, Lab Appl Chem, POB 35, FI-40014 Jyvaskyla, Finland
Cellulose 2006 **13** (1) 53
Variations in the chemical composition within pine (*Pinus sylvestris*) trunks determined by diffuse reflectance infrared spectroscopy and chemometrics

Verdonk JMAJ, Shim SB, Van Leeuwen P, Verstegen MWA// Univ Wageningen, Anim Sci Grp, POB 65, NL-8200 AB Lelystad, The Netherlands
Br J Nutr 2006 **93** (Suppl 1) S125
Application of inulin-type fructans in animal feed and pet food

13. Polysaccharides - Other

Hellebust S, Blokhus AM, Nilsson S// Natl Univ Ireland, Univ Coll Cork, Dept Chem, Cork, Rep Ireland
J Appl Polym Sci 2006 **100** (3) 1728
Partitioning of anionic/nonionic polysaccharides in a segregative system of anionic polyelectrolyte mixtures in aqueous solution: Effects of polymer charge density and ionic strength of solution

Kawakami K, Ihara T, Nishioka T, Kitsuki T, Suzuki Y// Kao Corp, Tokyo Res Labs, 2-1-3 Bunka, Sumida ku, Tokyo 169 8555, Japan
Langmuir 2006 **22** (7) 3337
Salt tolerance of an aqueous solution of a novel amphiphilic polysaccharide derivative

Koschella A, Leermann T, Brackhagen M, Heinze T*// *Univ Jena, Ctr Excellence Polysaccharide Res, Humboldstr 10, DE-07743 Jena, Germany
J Appl Polym Sci 2006 **100** (3) 2142
Study of sulfonic acid esters from 1→4-, 1→3-, and 1→6-linked polysaccharides

Leathers TD, Nunnally MS, Price NP// USDA/ARS, Natl Ctr Agr Utilizat Res, Bioprod & Biocatalysis Res Unit, 1815 Nth St, Peoria, II 61604, USA
Biotechnol Lett 2006 **28** (9) 623
Co-production of schizophyllan and arabinoxylan from corn fiber

Li XM, Le GW, Cheng JX, Wang F, Shi YH*// *Sthn Yangtze Univ, Key Lab Ind Biotechnol MOE, CN-214036 Wuxi, Jiangsu, Peoples Rep China
Carbohydr Polym 2006 **64** (3) 408
Optimization of microwave-assisted solid-phase oligosaccharides synthesis reaction and analysis of components and structure of synthetic product

Tanodekaew S, Channasanon S, Uppanan P// Natl Met & Mat Technol Ctr, 114 Thailand Sci Pk, TH-12120 Klongluang, Thailand
J Appl Polym Sci 2006 **100** (3) 1914
Xylan/polyvinyl alcohol blend and its performance as hydrogel

Ye SQ, Wang CY, Liu XX, Tong Z*, Ren B, Zeng F// *Sth China Univ Technol, Res Inst Mat Sci, CN-510640 Ghangzhou, Peoples Rep China
J Controlled Release 2006 **112** (1) 79
New loading process and release properties of insulin from polysaccharide microcapsules fabricated through layer-by-layer assembly

Zhang QM, Marszalek PE*// *Duke Univ, Dept Mech Engn & Mat Sci, Ctr Biol Inspired Mat & Mat Syst, Durham, NC 27708, USA
Polymer 2006 **47** (7) 2526
Solvent effects on the elasticity of polysaccharide molecules in disordered and ordered states by single-molecule force spectroscopy