

Bibliography of carbohydrate polymers

(4 weeks journals. Search completed at 20th. Sept. 2006)

1. Books, reviews & symposia

Ali I, Aboul-Enein HY*// *National Research Centre, Pharmaceut & Med Chem Dept, Pharmaceut & Drug Ind Res Div, Tahrir St, EG-12311 Cairo, Egypt
J Sep Sci 2006 **29** (6) 762

Impact of immobilized polysaccharide chiral stationary phases on enantiomeric separations

Rosalam S, England R// Univ Bath, Dept Chem Engr, Bath BA2 7AY, England
Enzyme Microb Technol 2006 **39** (2) 197

Review of xanthan gum production from unmodified starches by *Xanthomonas compestris* sp.

2. Cellulose

Bica CID, Borsali R, Rochas C, Geissler E// Univ J Fourier Grenoble, UMR CNRS 5588, Lab Spectrometrie Phys, BP 87, FR-38402 St Martin d'Heres, France
Macromolecules 2006 **39** (10) 3622

Dynamics of cellulose whiskers spatially trapped in agarose hydrogels

Borja Y, Riess G*, Lederer K// *Univ Leoben, Inst Chem Polymer Mat, Franz Josef Str 18, AT-8700 Leoben, Austria
J Appl Polym Sci 2006 **101** (1) 364

Synthesis and characterization of polypropylene reinforced with cellulose I and II fibers

Carotenuto C, Grizzuti N*// *Univ Naples Federico II, Dipt Ingn Chim, Piazzale Tecchio 80, IT-80125 Naples, Italy
Rheol Acta 2006 **45** (4) 468

Thermoreversible gelation of hydroxypropylcellulose aqueous solutions

Hartman J, Albertsson AC*, Sjöberg J// *Royal Inst Technol, Sch Chem Sci & Engr, Teknikringen 56-58, SE-10044 Stockholm, Sweden
Biomacromolecules 2006 **7** (6) 1983

Surface- and bulk-modified galactoglucomannan hemicellulose films and film laminates for versatile oxygen barriers

Kai Y, Hamada JI, Morioka M, Yano S, Nakamura H, Makino K, Mizuno T, Takeshima H, Kuratsu JI// Kumamoto Univ, Grad Sch Med Sci, Dept Neurosurg, Honjo 1-1-1, Kumamoto 860 8556, Japan
Am J Neuroradiol 2006 **27** (5) 1146

Clinical evaluation of cellulose porous beads for the therapeutic embolization of meningiomas

Mangazbaeva RA, Mun GA, Nurkeeva ZS, Khutoryanskiy VV*// *Univ Reading, Sch Pharm, POB 224, Reading RG6 6AD, England
Polym Int 2006 **55** (6) 668

Interpolymer complexes of hydroxy-propylmethylcellulose with polycarboxylic acids in aqueous solution

Marci G, Mele G*, Palmisano L, Pulito P, Sannino A// *Univ Lecce, Dipt Ingn Innovazione, Via Arnesano, IT-73100 Lecce, Italy
Green Chem 2006 **8** (5) 439

Environmentally sustainable production of cellulose-based superabsorbent hydrogels

Mata J, Patel J, Jain N, Ghosh G, Bahadur P// Veer Namad S Gujarat Univ, Dept Chem, IN-359007 Surat, India
J Colloid Interface Sci 2006 **297** (2) 797

Interaction of cationic surfactants with carboxymethylcellulose in aqueous media

Mathew AP, Oksman K*, Sain M// *Norwegian Univ Sci & Technol, Dept Engr Design & Mat, NO-7034 Trondheim, Norway

J Appl Polym Sci 2006 **101** (1) 300

The effect of morphology and chemical characteristics of cellulose reinforcements on the crystallinity of polylactic acid

Memmi A, Granet R*, Gahbiche MA, Fekih A, Bakhrouf A, Krausz P// *Univ Monastir, Fac Pharm, Lab Analyses & Controle Pollutants Chim & Microbiol, rue Fattouma Bourguiba, Monastir, Tunisia
J Appl Polym Sci 2006 **101** (1) 751

Fatty esters of cellulose from olive pomace and barley bran: Improved mechanical properties by metathesis crosslinking

Micusik M, Omastova M*, Prokes J, Krupa I// *Slovak Acad Sci, Inst Polymer, Dubravska cesta 9, SK-84236 Bratislava, Slovakia

J Appl Polym Sci 2006 **101** (1) 133

Mechanical and electrical properties of composites based on thermoplastic matrices and conductive cellulose fibers

Mohagheghi A, Ruth M, Schell DJ// Natl Bioenergy Ctr, Natl Renewable Energy Lab, 1617 Cole Blvd, Golden, CO 80401, USA

Process Biochem 2006 **41** (8) 1806

Conditioning hemicellulose hydrolysates for fermentation: Effects of overliming pH on sugar and ethanol yields

Peydecastaing J, Bras J, Vaca-Garcia C*, Borredon ME, Iftimie N, Giurginca M, Meghea A// *UMR 1010 INRA/INP/ENSIACET, Lab Chim Agroindustrielle, Toulouse, France

Mol Cryst Liq Cryst 2006 **448** 115

NIR study of chemically modified cellulosic biopolymers

Richardson JC, Foster CS, Doughty SW, Burton JS, Macrae RJ, Melia CD*// *Univ Nottingham, Sch Pharm, Formulation Insights, Univ Pk, Nottingham NG7 2RD, England

Carbohydr Polym 2006 **65** (1) 22

The influence of L-amino acid molecular structure on the phase transition temperature of hydroxypropyl methylcellulose

Saito T, Nishiyama Y*, Putaux JL, Vignon M, Isogai A// *CNRS/ICMG/UJF, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble 9, France
Biomacromolecules 2006 **7** (6) 1687

Homogeneous suspensions of individualized microfibrils from TEMPO-catalyzed oxidation of native cellulose

Sokolnicki AM, Fisher RJ, Harrah TP, Kaplan DL*// *Tufts Univ, Dept Chem, Medford, MA 02155, USA

J Membr Sci 2006 **272** (1-2) 15

Permeability of bacterial cellulose membranes

Tiwari AK, Ahmad S// DDU Gorakhpur Univ, Dept Chem, IN-273009 Gorakhpur, India

J Colloid Interface Sci 2006 **298** (1) 274

Studies on electrochemical characterization and performance prediction of cellulose acetate and Zeocarb-225 composite membranes in aqueous NaCl solutions

Tserki V, Matzinos P, Zafeiropoulos NE, Panayiotou C*// *Aristotle Univ Thessaloniki, Dept Chem Engr, GR-54124 Thessaloniki, Greece

J Appl Polym Sci 2006 **100** (6) 4703

Development of biodegradable composites with treated and compatibilized lignocellulosic fibers

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.

Woo CK, Schiewe B, Wegner G*// *Max Planck Inst Polym Res, Ackermannweg 10, POB 3148, DE-55021 Mainz, Germany
Macromol Chem Phys 2006 **207** (2) 148
 Multilayered assembly of cellulose derivatives as primer for surface modification by polymerization
 Yamamoto C, Inagaki S, Okamoto Y*// *Nagoya Univ, EcoTopia Sci Inst, Dept Appl Chem, Chikusa ku, Nagoya, Aichi 464 8603, Japan
J Sep Sci 2006 **29** (6) 915
 Enantioseparation using alkoxyphenylcarbamates of cellulose and amylose as chiral stationary phase for high-performance liquid chromatography

3. Cellulose-degrading enzymes

Kachlishvili E, Penninckx MJ*, Tsiklauri N, Elisashvili V// *Univ Libre Bruxelles, Fac Sci, Inst Pasteur, Lab Physiol & Ecol Microbienne, 642 rue Engeland, BE-1180 Brussels, Belgium
World J Microbiol Biotechnol 2006 **22** (4) 391
 Effect of nitrogen source on lignocellulolytic enzyme production by white-rot basidiomycetes under solid-state cultivation
 Konno N, Habu N*, Maeda I, Azuma N, Isogai A// *Utsunomiya Univ, Dept Bioprod Sci, Mine-machi 350, Utsunomiya, Tochigi 321 8505, Japan
Carbohydr Polym 2006 **64** (4) 589
 Cellouronate (β -1,4-linked polyglucuronate) lyase from *Brevundimonas* sp. SH203: Purification and characterization
 Liu J, Xia WS*// *Sthn Yangtze Univ, Sch Food Sci & Technol, Huihe Rd 170, POB 60, CN-214036 Wuxi, Peoples Rep China
Biochem Eng J 2006 **30** (1) 82
 Purification and characterization of a bifunctional enzyme with chitosanase and cellulase activity from commercial cellulase

4. Chitin/Chitosan

Bahadur R, Aryal S, Bhattarai N, Kim HY*// *Chonbuk Natl Univ, Dept Text Engr, Jeonju 561 756, South Korea
Scripta Mater 2006 **54** (12) 2029
 Ceramic modification of N-acetylated chitosan stabilized gold nanoparticles
 Burkatovskaya M, Tegos GP, Swietlik E, Demidova TN, Castano AP, Hamblin MR*// *MGH, Wellman Ctr Photomed, Boston, Ma 02114, USA
Biomaterials 2006 **27** (22) 4157
 Use of chitosan bandage to prevent fatal infections developing from highly contaminated wounds in mice
 Charoenvuttitham P, Shi J, Mittal GS// Univ Guelph, Sch Engr, Guelph, Ontario, Canada N1G 2W1
Separ Sci Technol 2006 **41** (6) 1135
 Chitin extraction from black tiger shrimp (*Penaeus monodon*) waste using organic acids
 Desai KG, Liu C, Park HJ*// *Korea Univ, Sch Life Sci Biotechnol, 1,5 Ka, Anam dong, Sungbuk ku, Seoul 136 701, South Korea
J Microencapsul 2006 **23** (1) 79
 Characteristics of vitamin C encapsulated tripolyphosphate-chitosan microspheres as affected by chitosan molecular weight
 Desai KG, Park HJ*// *Address as above
J Microencapsul 2006 **23** (1) 91
 Effect of manufacturing parameters on the characteristics of vitamin C encapsulated tripolyphosphate-chitosan microspheres prepared by spray-drying
 Dong YM, Mao W, Wang HW, Zhao YQ, Bi DX, Yang LL, Ge Q, Ou ZQ// Xiamen Univ, Dept Mat Sci & Engr, CN-361005 Xiamen, Peoples Rep China
Carbohydr Polym 2006 **65** (1) 42
 Electron microscopic studies on planar texture and disclination of cholesteric mesophases in acyloyl chitosan/acrylic acid composite films
 Hashimoto M, Morimoto M, Saimoto H, Shigemasa Y, Yanagie H, Eriguchi M, Sato T*// *Keio Univ, Dept Biosci & Informat, 3-14-1 Hiyoshi, Yokohama, Kanagawa 223 852, Japan
Biotechnol Lett 2006 **28** (11) 815
 Gene transfer by DNA/mannosylated chitosan complexes into mouse peritoneal macrophages
 Holappa J, Hjalmsdottir M, Masson M, Runarsson O, Asplund T, Soininen P, Nevalainen T, Jarvinen T// Univ Kuopio, Dept Pharmaceut Chem, PO Box 1627, FI-70211 Kuopio, Finland
Carbohydr Polym 2006 **65** (1) 114
 Antimicrobial activity of chitosan N-betainates
 Hu FQ, Zhao MD, Yuan H, You J, Du YZ, Zeng S// Zhejiang Univ, Coll Pharmaceut Sci, CN-310031 Hangzhou, Peoples Rep China
Int J Pharm 2006 **315** (1-2) 158
 A novel chitosan oligosaccharide-stearic acid micelles for gene delivery: Properties and *in vitro* transfection studies

Huang MF, Liu L, Zhang GB, Yuan GB, Fang Y*// *Univ Sci & Technol China, Dept Polymer Sci & Engr, Jinzhai Lu 96, CN-230026 Hefei, Anhui, Peoples Rep China
Int J Biol Macromol 2006 **38** (3-5) 191
 Preparation of chitosan derivative with polyethylene glycol side chains for porous structure without specific processing technique
 Liu H, Bao J, Du Y, Zhou X, Kennedy JF// China Univ Geosci, Sch Environm Studies, CN-430074 Wuhan, Peoples Rep China
Carbohydr Polym 2006 **64** (4) 553
 Effect of ultrasonic treatment on the biochemophysical properties of chitosan
 Liu ZH, Wu GC, Liu YH// Hebei Univ, Supervision Coll Qual & Technol, CN-071002 Baoding, Peoples Rep China
J Appl Polym Sci 2006 **101** (1) 799
 Graft copolymerization of methyl acrylate onto chitosan initiated by potassium diperiodatoargentate (III)
 Lu LY, Peng FB, Jiang ZY*, Wang JH// *Tianjin Univ, Sch Chem & Technol, CN-300072 Tianjin, Peoples Rep China
J Appl Polym Sci 2006 **101** (1) 167
 Poly(vinyl alcohol)/chitosan blend membranes for pervaporation of benzene/cyclohexane mixtures
 Mallika P, Himabindu A, Shailaja D*// *Indian Inst Chem Technol, Organ Coatings & Polymers Div, IN-500007 Hyderabad, India
J Appl Polym Sci 2006 **101** (1) 63
 Modification of chitosan towards a biomaterial with improved physico-chemical properties
 Park KE, Jung SY, Lee SJ, Min BM*, Park WH// *Seoul Natl Univ, Coll Dent, Dent Res Inst, Dept Oral Biochem & Craniomaxillofacial Reconstructive Sci, Seoul 110 749, South Korea
Int J Biol Macromol 2006 **38** (3-5) 165
 Biomimetic nanofibrous scaffolds: Preparation and characterization of chitin/silk fibroin blend nanofibers
 Peesan M, Rujiravanit R, Supaphol P*// *Chulalongkorn Univ, Technol Ctr Electrospun Fibers, Soi Chula 12, Phayathai Rd, Pathumwan, TH-10330 Bangkok, Thailand
J Biomater Sci Polym Ed 2006 **17** (5) 547
 Electrospinning of hexanoyl chitosan/poly(lactide) blends
 Pena J, Izquierdo-Barba I, Martinez A, Vallet-Regi M*// *Univ Complutense Madrid, Fac Farm, Dept Quim Inorgan & Bioinorgan, ES-28040 Madrid, Spain
Solid State Sci 2006 **8** (5) 513
 New method to obtain chitosan/apatite materials at room temperature
 Qian SH, Xue AF, Xiao M, Chen H// Wuhan Univ, Coll Resource & Environm Sci, CN-430072 Wuhan, Peoples Rep China
J Appl Polym Sci 2006 **101** (1) 432
 Application of crosslinked chitosan in the analysis of ultratrace Mo(VI)
 Qin YM, Zhu CJ, Chen J, Chen YZ, Zhang C// Jiaxing Coll, Biochem Mat Res & Dev Ctr, CN-314001 Jiaxing, Peoples Rep China
J Appl Polym Sci 2006 **101** (1) 766
 The absorption and release of silver and zinc ions by chitosan fibers
 Radeva T, Kamburova K, Petkanchin I// Bulgarian Acad Sci, Rostislav Kaischew Inst Phys Chem, BU-1113 Sofia, Bulgaria
J Colloid Interface Sci 2006 **298** (1) 59
 Formation of polyelectrolyte multilayers from polysaccharides at low ionic strength
 Sailaja GS, Ramesh P, Varma HK*// *Sree Chitra Tirunal Inst Med Sci & Technol, Biomed Technol Wing, IN-695012 Trivandrum, India
J Appl Polym Sci 2006 **100** (6) 4716
 Swelling behavior of hydroxyapatite-filled chitosan-poly(acrylic acid) polyelectrolyte complexes
 Shi CM, Zhu Y, Ran XZ, Wang M, Su YP, Cheng TM// Third Military Med Univ, Coll Prevent Med, Inst Combined Injury, CN-400038 Chongqing, Peoples Rep China
J Surg Res 2006 **133** (2) 185
 Therapeutic potential of chitosan and its derivatives in regenerative medicine
 Shi XW, Du YM*, Sun LP, Zhang BZ, Dou A// *Wuhan Univ, Coll Resource & Environm Sci, Dept Environm Sci, CN-430072 Wuhan, Peoples Rep China
J Appl Polym Sci 2006 **100** (6) 4614
 Polyelectrolyte complex beads composed of water-soluble chitosan/alginate: Characterization and their protein release behavior
 Shi XW, Du YM*, Yang JH, Zhang BZ, Sun LP// *Address as above
J Appl Polym Sci 2006 **100** (6) 4689
 Effect of degree of substitution and molecular weight of carboxymethyl chitosan nanoparticles on doxorubicin delivery
 Singh V, Tripathi DN, Tiwari A, Sanghi R// Univ Allahabad, Dept Chem, IN-211002 Allahabad, India
Carbohydr Polym 2006 **65** (1) 35
 Microwave synthesized chitosan-graft-poly(methylmethacrylate): An efficient Zn²⁺ ion binder

Thanpicha T, Sirivat A, Jamieson AM, Rujiravanit R*// *Chulalongkorn Univ, Petroleum & Petrochem Coll, Conductive & Electroactive Polym Res Unit, TH-10330 Bangkok, Thailand

Carbohydr Polym 2006 **64** (4) 560

Preparation and characterization of polyaniline/chitosan blend film

Verestiu L, Nastasescu O, Barbu E, Sarvaiya I, Green KL, Tsibouklis J*// *Univ Portsmouth, Sch Pharm & Biomed Sci, St Michaels Bldg, White Swan Rd, Portsmouth PO1 2DT, England

J Biomed Mater Res Pt A 2006 **77A** (4) 726

Functionalized chitosan/NIPAM (HEMA) hybrid polymer networks as inserts for ocular drug delivery: Synthesis, *in vitro* assessment, and *in vivo* evaluation

Weir MD, Xu HHK*, Simon CG// *Nat'l Inst Stand & Technol, Amer Dent Assoc Hlth Fdn, Paffenbarger Res Ctr, 100 Bureau Dr, Stop 8546, Gaithersburg, Md 20899, USA

J Biomed Mater Res Pt A 2006 **77A** (3) 487

Strong calcium phosphate cement-chitosan-mesh construct containing cell-encapsulating hydrogel beads for bone tissue engineering

Wu J, Su ZG, Ma GH*// *Chinese Acad Sci, Inst Proc Engn, State Key Lab Biochem Engn, CN-100080 Beijing, Peoples Rep China

Int J Pharm 2006 **315** (1–2) 1

A thermo- and pH-sensitive hydrogel composed of quaternized chitosan/glycerophosphate

Ye X, Kennedy JF, Li B, Xie BJ*// *Huazhong Agr Univ, Coll Food Sci & Technol, CN-430070 Wuhan, Hubei, Peoples Rep China

Carbohydr Polym 2006 **64** (4) 532

Condensed state structure and biocompatibility of the konjac glucomannan/chitosan blend films

Yeh JT, Chen CL, Huang KS*, Nien YH, Chen JL, Huang PZ// *Kun Shan Univ, Dept Polymer Mat, Tainan 71016, Taiwan

J Appl Polym Sci 2006 **101** (2) 885

Synthesis, characterization, and application of PVP/chitosan blended polymers

5. Cyclodextrins

Chao JB, Tong HB, Liu DS, Huang SP// Shanxi Univ, Inst Modern Chem, CN-030006 Taiyuan, Peoples Rep China

Spectrochim Acta A Mol Biol Spectrosc 2006 **64** (1) 166

Preparation and characterization of inclusion complexes of perfloroxacin mesylate with three kinds of cyclodextrins

Memisoglu-Bilensoy E, Sen M, Hincal AA// Hacettepe Univ, Fac Pharm, Dept Pharmaceut Technol, TR-06100 Ankara, Turkey

J Microencapsul 2006 **23** (1) 59

Effect of drug physicochemical properties on *in vitro* characteristics of amphiphilic cyclodextrin nanospheres and nanocapsules

Memisoglu-Bilensoy E, Dogan AL, Hincal AA// Hacettepe Univ, Fac Pharm, Dept Pharmaceut Technol, TR-06100 Ankara, Turkey

J Pharm Pharmacol 2006 **58** (5) 585

Cytotoxic evaluation of injectable cyclodextrin nanoparticles

Szeman J, Csabai K, Kekesi K, Szente L, Varga G// CycloLab Cyclodextrin Res & Dev Lab Ltd, POB 435, HU-1525 Budapest, Hungary

J Chromatogr A 2006 **1116** (1–2) 76

Novel stationary phases for high-performance liquid chromatography analysis of cyclodextrin derivatives

Watanabe H, Nishimoto T, Sonoda T, Kubota M, Chaen H, Fukuda S// Hayashibara Biochem Labs Inc, Amase Inst, 7-7 Amase minami-machi, Okayama 700 0834, Japan

Carbohydr Res 2006 **341** (8) 957

An enzymatically produced novel cyclomaltopentaose cyclized from amylose by an α -(1 $\rightarrow$ 6)-linkage, cyclo-($\rightarrow$ 6)- α -D-Glcp-(1 $\rightarrow$ 4)- α -D-Glcp-(1 $\rightarrow$ 4)- α -D-Glcp-(1 $\rightarrow$ 4)- α -D-Glcp-(1 $\rightarrow$ 4) α -D-Glcp (1 $\rightarrow$)

6. Lignin

Chen P, Zhang LN*, Peng SP, Liao B// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

J Appl Polym Sci 2006 **101** (1) 334

Effects of nanoscale hydroxypropyl lignin on properties of soy protein plastics

7. Lipopolysaccharides

Bushmarinov IS, Ovchinnikova NA*, Kocharova NA, Toukach FV, Torzewska A, Shashkov AS, Knirel YA, Rozalski A// *Russian Acad Sci, ND Zelinskii Organ Chem Inst, RU-119991 Moscow, Russia

Carbohydr Res 2006 **341** (9) 1181

Structure of the O-polysaccharide from the lipopolysaccharide of *Providencia alcalifaciens* O29

Jansson PE, Stenutz R*, Widmalm G// *Stockholm Univ, Dept Organ Chem, Arrhenius Lab, SE-10691 Stockholm, Sweden

Carbohydr Res 2006 **341** (8) 1003

Sequence determination of oligosaccharides and regular polysaccharides using NMR spectroscopy and a novel web-based version of the computer program CASPER

Ruttens B, Kovac P*// *NIH/NIDDK, LMC, Bethesda, Md 20892, USA

Carbohydr Res 2006 **341** (9) 1077

Synthesis of spacer-equipped phosphorylated di-, tri- and tetrasaccharide fragments of the O-specific polysaccharide of *Vibrio cholerae* O139

8. Pectin

Busto MD, Garcia-Tramontin KE, Ortega N, Perez-Mateos M// Univ Burgos, Dept Biotechnol & Food Sci, Area Biochem & Mol Biol, Plaza Misael Banuelos s/n, ES-09001 Burgos, Spain

Bioresource Technol 2006 **97** (13) 1477

Preparation and properties of an immobilized pectinase for the treatment of fruit juices

Capel F, Nicolai T, Durand D*, Boulenguer P, Langendorff V// *Universite Maine, UMR CNRS Polymeres Colloides Interfaces, FR-72085 La Mans 9, France

Food Hydrocolloid 2006 **20** (6) 901

Calcium and acid induced gelatin of (amidated) low methoxyl pectin

Csanadi Z, Sisak C*// *Univ Veszprem, Res Inst Chem & Proc Engn, POB 158, HU-8200 Veszprem, Hungary

Acta Aliment 2006 **35** (2) 205

Immobilization of Pectinex Ultra SP-L pectinase and its application to production of fructooligosaccharides

Ganzevles RA, Cohen Stuart MA, Van Vliet T, De Jongh HHJ// Wageningen Univ, Lab Phys Chem & Colloid Sci, PO Box 8038, NL-6700 EK Wageningen, The Netherlands

Food Hydrocolloid 2006 **20** (6) 872

Use of polysaccharides to control protein adsorption to the air-water interface

Guillotin SE, Mey N, Ananta E, Boulenguer P, Schols HA, Voragen AGJ*// *Wageningen Univ, Dept Agrotechnol & Food Sci, Food Chem Lab, Wageningen, The Netherlands

Biomacromolecules 2006 **7** (6) 2032

Chromatographic and enzymatic strategies to reveal differences between amidated pectins on a molecular level

Kupchik LA, Kartel NT, Bogdanov ES, Bogdanova OV, Kupchik MP// National Acad Sci Ukraine, Inst Sorption & Endoecological Problems, Kiev, Ukraine

Russ J Appl Chem Eng Tr 2006 **79** (3) 457

Chemical modification of pectin to improve its sorption properties

Lee JH, Shim JS, Lee JS, Kim MK, Chung MS, Kim KH*// *Korea University, Sch Life Sci & Biotechnol, Dept Food Technol, Seoul 136 701, South Korea

Carbohydr Res 2006 **341** (9) 1154

Pectin-like acidic polysaccharide from *Panax ginseng* with selective antiadhesive activity against pathogenic bacteria

Liu Z, Wei G, Guo Y, Kennedy JF// Henan Univ Technol, Zhengzhou Songshan Rd 140, CN-450052 Henan, Peoples Rep China

Carbohydr Polym 2006 **64** (4) 548

Image study of pectin extraction from orange skin assisted by microwave

Mangiagapra P, Gorrasi G, Sorrentino A, Vittoria V*// *Univ Salerno, Dept Chem & Food Engn, IT-84084 Fisciano, Italy

Carbohydr Polym 2006 **64** (4) 516

Biodegradable nanocomposites obtained by ball milling of pectin and montmorillonites

Murayama H, Katsumata T, Endou H, Fukushima T, Sakurai N// Yamagata Univ, Fac Agr, Tsuruoka 997 8555, Japan

Postharvest Biol Technol 2006 **40** (2) 141

Effect of storage period on the molecular-mass distribution profile of pectin and hemicellulosic polysaccharides in pears

9. Starch

Adebowale KO, Afolabi TA, Olu-Owolabi BI// Univ Ibadan, Dept Chem, Agbowo, P MB, Ibadan, Nigeria

Carbohydr Polym 2006 **65** (1) 93

Functional, physicochemical and retrogradation properties of sword bean (*Canavalia gladiata*) acetylated and oxidized starches

Altay F, Gunasekaran S*// *Univ Wisconsin, Dept Biol Syst Engn, 460 Henry Mall, Madison, WI 53706, USA

J Agric Food Chem 2006 **54** (12) 4235

Influence of drying temperature, water content, and heating rate on gelatinization of corn starches

Angellier H, Molina-Boisseau S, Dufresne A*// *INPG, Ecole Francaise Papeterie & Ind Graphiques Grenoble, BP 65, FR-38402 St Martin d'Heres, France

Macromol Symposia 2006 **233** 132

Waxy maize starch nanocrystals as filler in natural rubber

Aparicio-Saguilan A, Mendez-Montealvo G, Solorza-Feria J*, Bello-Perez LA// *IPN, Ctr Desarrollo Prod Bioticos, km 8,5 Carr Yautepec-Jojulta, Col San Isidro, Apartado Postal 24, MX-62731 Yautepec, Morelos, Mexico
J Sci Food Agric 2006 **86** (7) 1078

Thermal and viscoelastic properties of starch gels from maize varieties

Charoenkul N, Uttapap D*, Pathipanawat W, Takeda Y// *King Mongkut's Univ Technol Thonburi, Sch Bioresources & Technol, Div Biochem Technol, 83 Moo 8 Thakham, Bangkhuntian, TH-10150 Bangkok, Thailand
Carbohydr Polym 2006 **65** (1) 102

Simultaneous determination of amylose content & unit chain distribution of amylopectins of cassava starches by fluorescent labeling/HPSEC

Chen L, Qiu X, Xie Z, Hong Z, Sun J, Chen X*, Jing X// *CAS, Changchun Inst Appl Chem, Grad Sch Chinese Acad Sci, State Key Lab Polym Phys & Chem, 5625 Renmin St, CN-130022 Changchun, Jilin, Peoples Rep China
Carbohydr Polym 2006 **65** (1) 75

Poly(L-lactide)/starch blends compatibilized with poly(L-lactide)-g-starch co-polymer

Ekanayake S, Nair BM, Asp NG, Jansz ER// Univ Sri Jayewardenepura, Fac Med Sci, Dept Biochem, Nugegoda, Sri Lanka

Starch 2006 **58** (5) 215

Effect of processing of sword beans (*Canavalia gladiata*) on physicochemical properties of starch

Ferry AL, Hort J*, Mitchell JR, Cook DJ, Lagarrigue S, Valles Pamies B// *Univ Nottingham, Div Food Sci, Sutton Bonington, Loughborough LE12 5RD, England
Food Hydrocolloid 2006 **20** (6) 855

Viscosity and flavour perception: Why is starch different from hydrocolloids?

Girija BG, Sailaja RRN// *Indian Inst Sci, Dept Chem Engn, IN-560012 Bangalore, India

J Appl Polym Sci 2006 **101** (2) 1109

Low-density polyethylene/plasticized tapioca starch blends with the low-density polyethylene functionalized with maleate ester: Mechanical and thermal properties

Gong Q, Wang LQ*, Tu K// *Zhejiang Univ, Inst Polym Sci, CN-310027 Hangzhou, Peoples Rep China

Carbohydr Polym 2006 **64** (4) 501

In situ polymerization of starch with lactic acid in aqueous solution and the microstructure characterization

Huang CC, Lin MC, Wang CCR// *Providence Univ, Dept Food & Nutr, Shalu 433, Taiwan

Carbohydr Polym 2006 **64** (4) 524

Changes in morphological, thermal and pasting properties of yam (*Dioscorea alata*) starch during growth

Iturriaga LB, De Mishima BL, Anon MC// Univ Nacl Santiago del Estero, Fac Agron, Inst Ciencias Quim, Av Belgrano Sur 1912, AR-4200 Santiago del Estero, Argentina

Food Res Int 2006 **39** (6) 660

Effect of amylose on starch pastes viscoelasticity and cooked grains stickiness in rice from seven Argentine genotypes

Karapantsios TD// Aristotle Univ Thessaloniki, Dept Chem, Div Chem, Univ Box 116, GR-54124 Thessaloniki, Greece

J Food Eng 2006 **76** (4) 477

Conductive drying kinetics of pregelatinized starch thin films

Kim JH, Tanhecho EJ, Ng PKW// *Michigan State Univ, Dept Food Sci & Human Nutr, 135 GM Trout Bldg, East Lansing, MI 48824, USA

Food Chem 2006 **99** (4) 718

Effect of extrusion conditions on resistant starch formation from pastry wheat flour

Liu CJ, Wang ZQ, Zhang X// *Tsing Hua Univ, Dept Chem, Key Lab Organ Optoelect & Mol Engn, CN-100084 Beijing, Peoples Rep China

Macromolecules 2006 **39** (10) 3480

Force spectroscopy of single-chain polysaccharides: Force-induced conformational transition of amylose disappears under environment of micelle solution

Lu XL, Du FG, Ge XC, Xiao M, Meng YZ// *Sun Yat Sen Univ, State Key Lab Optoelect Mat & Technol, CN-510275 Guangzhou, Peoples Rep China

J Biomed Mater Res Pt A 2006 **77A** (4) 653

Biodegradability and thermal stability of poly(propylene carbonate)/starch composites

Moorthy SN, Andersson L, Eliasson AC, Santacruz S, Ruales J// Cent Tuber Crops Res Inst, Div Crop Utilisat, IN-695917 Trivandrum, Kerala, India

Starch 2006 **58** (5) 209

Determination of amylose content in different starches using modulated differential scanning calorimetry

Raphaeldes SN, Georgiadis N// ATEI Thessaloniki, Dept Food Technol, Food Proc Engn Lab, PO Box 141, GR-5740 Thessaloniki, Greece

Carbohydr Polym 2006 **65** (1) 81

Effect of fatty acids on the rheological behaviour of maize starch dispersions during heating

Ridout MJ, Parker ML, Hedley CL, Bogracheva TY, Morris VJ// *Inst Food Res, Norwich Res Pk, Colney, Norwich NR4 7UA, England

Carbohydr Polym 2006 **65** (1) 64

Atomic force microscopy of pea starch: Granule architecture of the *rug3-a*, *rug4-b*, *rug5-a* and *lam-c* mutants

Rui-He, Wang XL, Wang YZ*, Yang KK, Zeng JB, Ding SD// *Sichuan Univ, Coll Chem, Ctr Degrad & Flame-Retardant Polym Materials, CN-610064 Chengdu, Peoples Rep China

Carbohydr Polym 2006 **65** (1) 28

A study on grafting poly(1,4-dioxan-2-one) onto starch *via* 2,4-tolylene diisocyanate

Sagol S, Turhan M*, Sayar S// *Univ Mersin, Dept Food Engn, TR-33343 Mersin, Turkey

J Food Eng 2006 **76** (3) 427

A potential method for determining *in situ* gelatinization temperature of starch using initial water transfer rate in whole cereals

Saibene D, Seetharaman K// *Penn State Univ, Dept Food Sci, 106 Borland Lab, University Park, Pa 16802, USA

Carbohydr Polym 2006 **64** (4) 539

Segmental mobility of polymers in starch granules at low moisture contents

Schmitz CS, De Simas KN, Santos K, Joao JJ, Amboni RDDMC, Amante ER// *Univ Fed Santa Catarina, Dept Food Sci & Technol, Ctr Agrarian Sci, Rod Admar Gonzaga 1346, BR-88034-001 Florianopolis, SC, Brazil

Int J Food Sci Technol 2006 **41** (6) 681

Cassava starch functional properties by etherification-hydroxypropylation

Shiba H, Okamoto T, Futagawa Y, Misawa T, Yanaga K, Ohashi T, Eto Y// Jikei Univ, Sch Med, Dept Surg, 3-25-8 Nishi Shinbashi, Minato ku, Tokyo 105 8461, Japan
J Surg Res 2006 **133** (2) 193

Adenovirus vector-mediated gene transfer using degradable starch microspheres for hepatocellular carcinoma in rats

Singh J, McCarthy OJ, Singh H// Massey Univ, Riddet Ctr, Palmerston North 5301, New Zealand

Carbohydr Polym 2006 **64** (4) 569

Physico-chemical and morphological characteristics of New Zealand *Taewa* (Maori potato) starches

Singh N, Inouchi N, Nishinari K// Osaka City University, Grad Sch Human Life Sci, Dept Food & Human Hlth Sci, Sumiyoshi-ku, Osaka 558 8585, Japan

Food Hydrocolloid 2006 **20** (6) 923

Structural, thermal and viscoelastic characteristics of starches separated from normal, sugary and waxy maize

Song JY, Kwon JY, Choi J, Kim YC, Shin M// *Chonnam Natl Univ, Dept Food & Nutr, 300 Yongbongdong, Kwangju 500 757, South Korea

Starch 2006 **58** (5) 223

Pasting properties of non-waxy rice starch-hydrocolloid mixtures

Song ZG, Wang JH*, Wang HZ, Zhao AH, Liu CX, Tian JC// *Shandong Agr Univ, Coll Agron, Med Plant Lab, CN-271018 Tai An, Peoples Rep China

Starch 2006 **58** (5) 243

Some properties of starch isolated from *Radix Cynanchi Bungei*

Sreedhar B, Chattopadhyay DK, Karunakar MSH, Sastry ARK// Indian Institute Chem Technol, Inorgan & Phys Chem Div, IN-500007 Hyderabad, India

J Appl Polym Sci 2006 **101** (1) 25

Thermal and surface characterization of plasticized starch polyvinyl alcohol blends crosslinked with epichlorohydrin

Tarrega A, Costell E, Rao MA// Inst Agroquim & Tecnol Alimentos - CSIC, POB 73, ES-46100 Burjassot, Spain

Food Sci Technol Int 2006 **12** (3) 253

Vane yield stress of native and cross-linked starch dispersions in skimmed milk: Effect of starch concentration and γ -carrageenan addition

Thielemans W, Belgacem MN, Dufresne A// *Inst Natl Polytech Grenoble, Ecole Francaise Papeterie & Ind Graphique, BP65, FR-38402 St Martin d'Heres, France
Langmuir 2006 **22** (10) 4804

Starch nanocrystals with large chain surface modifications

Thire RMSM, Ribeiro TAA, Andrade CT// Univ Fed Rio de Janeiro, Inst Macromol Professora Eloisa Mano, BR-21945-970 Rio de Janeiro, Brazil

J Appl Polym Sci 2006 **100** (6) 4338

Effect of starch addition on compression-molded poly(3-hydroxybutyrate)/ starch blends

Tischer PCSF, Noseda MD, De Freitas RA, Sierakowski MR*, Duarte MER// *UFPR, Dept Quim, Lab Biopolimeros, PO 19081, BR-81531-990 Curitiba, PR, Brazil

Carbohydr Polym 2006 **65** (1) 49

Effects of ι -carrageenan on the rheological properties of starches

Ueberschaer A, Cagiao ME, Bayer RK, Henning S, Calleja FJB// *Inst Estructura Mat - CSIC, Serrano 119, ES-28006 Madrid, Spain

J Appl Polym Sci 2006 **100** (6) 4893

Micromechanical properties of injection-molded starch-wood particle composites

Wang SJ, Gao WY*, Chen HX, Xiao PG// *Tianjin Univ, Coll Pharmaceut Sci & Biotechnol, CN-300072 Tianjin, Peoples Rep China

J Food Eng 2006 **76** (3) 420

Studies on the morphological, thermal and crystalline properties of starches separated from medicinal plants

Wu YP, Qi Q, Liang GH, Zhang LQ// Beijing Univ Chem Technol, Key Lab Beijing City Preparat & Proc Novel Polym Mat, CN-100029 Beijing, Peoples Rep China
Carbohydr Polym 2006 **65** (1) 109

A strategy to prepare high performance starch/rubber composites: *In situ* modification during latex compounding process

Yahata Y, Fukuoka M, Mihori T, Watanabe H*// *Tokyo Univ Marine Sci & Technol, Dept Food Sci & Technol, 5-7 Konan 4, Minato ku, Tokyo 108 8477, Japan
J Food Eng 2006 **76** (4) 490

Water can be made to diffuse against the water content gradient in starchy foods

10. Starch-degrading enzymes

Atichokudomchai N, Jane JJ*, Hazlewood G// *Iowa State Univ, Dept Food Sci & Human Nutr, 2313 Food Sci Bldg, Ames, Ia 50011, USA

Carbohydr Polym 2006 **64** (4) 582

Reaction pattern of a novel thermostable α -amylase

Biazus JPM, Severo JB, Santana JCC, Souza RR*, Tambourgi EB// *Fed Univ Sergipe, Dept Chem Engn, Univ City, Prof Jose Aloisio Campos, Av Marechal Rondon s/n, BR-49100-000 Sao Cristovao, SE, Brazil

Process Biochem 2006 **41** (8) 1786

Study of amylases recovery from maize malt by ion-exchange expanded bed chromatography

Chung HJ, Lim HS, Lim ST*// *Korea Univ, Sch Life Sci & Biotechnol, 5,1 Ka, Anam dong, Sungbuk ku, Seoul 136 701, South Korea
J Cereal Sci 2006 **43** (3) 353

Effect of partial gelatinization and retrogradation on the enzymatic digestion of waxy rice starch

Habibi AE, Khajeh K, Naderi-Manesh H, Ranjbar B, Nemat-Gorgani M*// *Univ Teheran, Inst Biochem & Biophys, POB 13145-1384, Tehran, Iran
J Biotechnol 2006 **123** (4) 434

Thermo stabilization of *Bacillus amyloliquefaciens* α -amylase by chemical cross-linking

Melander C, Tuting W, Bengtsson M, Laurell T, Mischnick R, Gorton L*// *Lund Univ, Dept Anal Chem, POB 124, SE-22100 Lund, Sweden
Starch 2006 **58** (5) 231

Hydrolysis of maltoheptose in flow through silicon wafer microreactors containing immobilised α -amylase and glycoamylase

Rodriguez VB, Alameda EJ, Gallegos JFM, Requena AR, Lopez AIG// Univ Granada, Dept Ingn Quim, Avda Fuentenueva s/n, ES-18071 Granada, Spain
Biotechnol Prog 2006 **22** (3) 718

Enzymatic hydrolysis of soluble starch with an α -amylase from *Bacillus licheniformis*

Shukla J, Kar R*// *Harcourt Butler Technol Inst, Dept Biochem Engn & Food Technol, IN-208002 Kanpur, India
World J Microbiol Biotechnol 2006 **22** (5) 417

Potato peel as a solid state substrate for thermostable α -amylase production by thermophilic *Bacillus* isolates

11. Polysaccharides - Microbial

Alupey IC, Popa M, Bejenariu A, Vasiliu S, Alupey V// Lohmann & Rauscher GmbH & Co KG, Div Res Dev, DE-56513 Neuwied, Germany
Eur Polym J 2006 **42** (4) 908

Composite membranes based on gellan and poly(*N*-vinylimidazole). Synthesis and characterization

Bertholon I, Lesieur S, Labarre D, Besnard M, Vauthier C*// *Fac Pharm Chatenay Malabry, UMR CNRS 8612, Lab Physico-chim Pharmacotech Biopharm, FR-92296 Chatenay Malabry, France
Macromolecules 2006 **39** (10) 3559

Characterization of dextran-poly(isobutylcyanoacrylate) copolymers obtained by redox radical and anionic emulsion polymerization

Desai KM, Akolkar SK, Badhe YP, Tambe SS, Lele SS*// *Univ Mumbai, Inst Chem Technol, Food Engn & Technol Dept, IN-400019 Mumbai, India
Process Biochem 2006 **41** (8) 1842

Optimization of fermentation media for exopolysaccharide production from *Lactobacillus plantarum* using artificial intelligence-based techniques

Fan JM, Zhang JS, Tang QJ, Liu YF, Zhang AQ, Pan YJ*// *Shanghai Acad Agr Sci, Inst Edible Fungi, CN-201106 Shanghai, Peoples Rep China
Carbohydr Res 2006 **341** (9) 1130

Structural elucidation of a neutral fucogalactan from the mycelium of *Coprinus comatus*

Henriques AWS, Jessouroun E, Lima EL, Alves TLM// CEFETEQ, Rua Senador Furtado 121, Maracana, BR-20270-021 Rio de Janeiro, Brazil

Process Biochem 2006 **41** (8) 1822

Capsular polysaccharide production by *Neisseria meningitidis* serogroup C: Optimization of process variables using response surface methodology

Hsieh C, Liu CJ, Tseng MH, Lo CT, Yang YC// Natl Formosa Univ, Dept Biotechnol, Yun Lin 63208, Taiwan
Enzyme Microb Technol 2006 **39** (3) 434

Effect of olive oil on the production of mycelial biomass and polysaccharides of *Grifola frondosa* under high oxygen concentration aeration

Kasaai MR// Mazandaran Univ, Fac Agr, Sari, Mazandaran, Iran

J Appl Polym Sci 2006 **100** (6) 4325

Intrinsic viscosity-molecular weight relationship and hydrodynamic volume for pullulan

Kim H, Jeong K, Cho KW, Paik SR, Jung S*// *Konkuk Univ, Bio/Mol Informat Ctr, Dept Biosci & Biotechnol, 1 Hwayang dong, Seoul 143 701, South Korea
Carbohydr Res 2006 **341** (8) 1011

Molecular dynamics simulations of a cyclic- β -(1 $\rightarrow$ 2) glucan containing an α -(1 $\rightarrow$ 6) linkage as a 'molecular alleviator' for the macrocyclic conformational strain

Lim JM, Yun JW*// *Daegu Univ, Dept Biotechnol, Kyungsan 712 714, Kyungbuk, South Korea

Process Biochem 2006 **41** (7) 1620

Enhanced production of exopolysaccharides by supplementation of toluene in submerged culture of an edible mushroom *Collybia maculata* TG-1

Moschakis T, Murray BS, Dickinson E*// *Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, England
Langmuir 2006 **22** (10) 4710

Particle tracking using confocal microscopy to probe the microrheology in a phase-separating emulsion containing nonadsorbing polysaccharide

Petit AC, Noiret N*, Sinquin C, Ratiskol J, Guezennec J, Collic-Jouault S// *Inst Chim Rennes, Ecole Nat Super Chim Rennes, CNRS UMR 6052 Syntheses & Activations Biomol, Ave General Leclerc, FR-35700 Rennes, France
Carbohydr Polym 2006 **64** (4) 597

Free-radical depolymerization with metallic catalysts of an exopolysaccharide produced by a bacterium isolated from a deep-sea hydrothermal vent polychaete annelid

Ratto M, Verhoef R, Suihko ML, Blanco A, Schols HA, Voragen AGJ, Wilting R, Siika-aho R, Buchert J// VTT Biotechnol, POB 1500, FI-02044 VTT Espoo, Finland
J Ind Microbiol Biotechnol 2006 **33** (5) 359

Colanic acid is an exopolysaccharide common to many enterobacteria isolated from paper-machine slimes

Rout D, Mondal S, Chakraborty I, Islam SS*// *Vidyasagar Univ, Dept Chem & Chem Engn, IN-721102 Paschim Medinipur, India
Carbohydr Res 2006 **341** (8) 995

The structure of a polysaccharide from Fraction-II of an edible mushroom, *Pleurotus florida*

Van Tomme SR, Van Nostrum CF, De Smedt SC, Hennink WE*// *Univ Utrecht, UIPS, Dept Pharmaceut, POB 800082, NL-3508 TB Utrecht, The Netherlands
Biomaterials 2006 **27** (22) 4141

Degradation behavior of dextran hydrogels composed of positively and negatively charged microspheres

Xiao HH, Chen DX, Wan WH, Hu XJ, Qi Y, Liang ZQ// Affiliated Hosp Zunyi Med Coll, Key Lab Cell Engn Guizhou Province, 143 Dalian Rd, CN-563003 Zunyi, Peoples Rep China

Process Biochem 2006 **41** (8) 1887

Enhanced simultaneous production of mycelia and intracellular polysaccharide in submerged cultivation of *Cordyceps jiangxiensis* using desirability functions

12. Polysaccharides - Plant

Aguilan JT, Dayrit FM*, Zhang JH, Ninonuevo MR, Lebrilla CB// *Ateneo Manila Univ, Dept Chem, Katipunan Ave, PH-1108 Quezon City, Philippines

J Am Soc Mass Spectrom 2006 **17** (1) 96

Structural analysis of κ -carrageenan sulfated oligosaccharides by positive mode nano-ESI-FTICR-MS and MS/MS by SORI-CID

Barron C, Robert P, Guillon F, Saulnier L, Rouau X// ENSAM-UMII, INRA-UMR Ingn Agropolymers & Technol Emergentes, CIRAD, 2 Pl Viala, FR-34060 Montpellier, France
Carbohydr Res 2006 **341** (9) 1186

Structural heterogeneity of wheat arabinoxylans revealed by Raman spectroscopy

Bravin B, Peressini D*, Sensidoni A// *Univ Udine, Dept Food Sci, Via Maragone 97, IT-33100 Udine, Italy
J Food Eng 2006 **76** (3) 280

Development and application of polysaccharide-lipid edible coating to extend shelf-life of dry bakery products

Broderick E, Lyons H, Pembroke T, Byrne H, Murray B, Hall M*// *Inst Technol, Dept Chem & Life Sci, Kerry, Rep Ireland

J Colloid Interface Sci 2006 **298** (1) 154

The characterisation of a novel, covalently modified, amphiphilic alginate derivative, which retains gelling and non-toxic properties

Chen ZG, Zong MH*, Li GJ// *Sth China Univ Technol, Dept Biotechnol, CN-510640 Guangzhou, Peoples Rep China

Process Biochem 2006 **41** (7) 1514

Lipase-catalyzed acylation of konjac glucomannan in organic media

Darrabie MD, Kendall WF, Opara EC*// *IIT, Pritzker Inst Biomed Engr, 10 West 32nd St, Chicago, IL 60616, USA

J Microencapsul 2006 **23** (1) 29

Effect of alginate composition and gelling cation on micro-bead swelling

Gill PK, Manhas RK, Singh P*// *Guru Nanak Dev Univ, Dept Biotechnol, IN-143005 Amritsar, India

J Food Eng 2006 **76** (3) 369

Hydrolysis of inulin by immobilized thermostable extracellular exoinulinase from *Aspergillus fumigatus*

Karbowiak T, Hervet H, Leger L, Champion D, Debeaufort F*, Voilley A// *Univ Bourgogne, IMSAPS-ENSBANA, 1 Esplanade Erasme, FR-21000 Dijon, France

Biomacromolecules 2006 **7** (6) 2011

Effect of plasticizers (water and glycerol) on the diffusion of a small molecule in ι -carrageenan biopolymer films for edible coating application

Katapodis P, Christakopoulou V, Christakopoulos P*// *Natl Tech Univ Athens, Dept Chem Engr, Biotechnol Lab, 5 Iroon Polytech Str, Zografou Campus, GR-15700 Athens, Greece

World J Microbiol Biotechnol 2006 **22** (5) 501

Optimization of xylanase production by *Thermomyces lanuginosus* in tomato seed meal using response surface methodology

Kontogiorgos V, Valkousi H, Lazaridou A, Biliaderis CG*// *Aristotle Univ, Fac Agr, Dept Food Sci & Technol, Lab Food Chem & Biochem, GR-54124 Thessaloniki, Greece

Colloid Surface B 2006 **49** (2) 145

A fractal analysis approach to viscoelasticity of physically cross-linked barley β -glucan gel networks

Larrazabal M, Martinez M, Sanabria L, Leon de Pinto G*, Herrera J// *La Univ Zulia, Fac Humanidades & Educat, Ctr Invest Quim Prod Naturales, Apdo 526, Maracaibo, Venezuela

Food Hydrocolloid 2006 **20** (6) 908

Structural elucidation of the polysaccharide from *Sterculia apetala* gum by a combination of chemical methods and NMR spectroscopy

Li B, Xie B, Kennedy JF// Huazhong Agr Univ, Coll Food Sci & Technol, CN-430070 Wuhan, Peoples Rep China

Carbohydr Polym 2006 **64** (4) 510

Studies on the molecular chain morphology of konjac glucomannan

Li B, Wei XJ, Sun JL, Xu SY// Henan Inst Sci & Technol, Sch Food Sci & Technol, CN-453003 Xinxiang, Henan, Peoples Rep China

Carbohydr Res 2006 **341** (9) 1135

Structural investigation of a fucoidan containing a fucose-free core from the brown seaweed, *Hizikia fusiforme*

M'sakni NH, Majdoub H, Roudesli S, Picton L, Le Cerf D*, Rihouey C, Morvan C// *Univ Rouen, UMR CNRS 6522, Lab Polymeres Biopolymeres & Membranes, FR-76821 Mont St Aignan, France

Eur Polym J 2006 **42** (4) 786

Composition, structure and solution properties of polysaccharides extracted from leaves of *Mesembryanthemum crystallinum*

Mafra I, Barros AS, Coimbra MA// Univ Porto, Fac Farm, REQUIMTE-Serv Bromatol, Rua Anibal Cunha 164, PT-4099-030 Porto, Portugal

Carbohydr Polym 2006 **65** (1) 1

Effect of black oxidising table olive process on the cell wall polysaccharides of olive pulp (*Olea europaea* L. var. Negrinha do Douro)

Mishra A, Yadav A, Pal S, Singh A// CSJM Univ, Univ Inst Engr & Technol, Dept Chem, IN-208024 Kanpur, UP, India

Carbohydr Polym 2006 **65** (1) 58

Biodegradable graft copolymers of fenugreek mucilage and polyacrylamide: A renewable reservoir to biomaterials

Motlagh S, Ravines P*, Karamallah KA, Ma Q// *Int Museum Photography & Film, George Eastman Hse, 900 East Ave, Rochester, NY 14618, USA

Food Hydrocolloid 2006 **20** (6) 848

The analysis of Acacia gums using electrophoresis

Mundargi RC, Agnihotri SA, Patil SA, Aminabhavi TM*// *Karnataka Univ, Drug Delivery Div, Ctr Excellence Polymer Sci, IN-580003 Dharwad, Karnataka, India

J Appl Polym Sci 2006 **101** (1) 618

Graft copolymerization of methacrylic acid onto guar gum, using potassium persulfate as an initiator

Prasad K, Meena R, Siddhanta AK*// *Cent Salt & Marine Chem Res Inst, Gijubhai Badheka Marg, IN-364002 Bhavnagar, Gujarat, India

J Appl Polym Sci 2006 **101** (1) 161

Microwave-induced rapid one-pot synthesis of κ -carrageenan-g-PMMA copolymer by potassium persulfate initiating system

Sakai S, Hashimoto I, Kawakami K// Kyushu Univ, Fac Engr, Dept Chem Engr, 744 Motooka, Nishi ku, Fukuoka 819 0395, Japan

Biochem Eng J 2006 **30** (1) 76

Development of alginate-agarose subsieve-size capsules for subsequent modification with a polyelectrolyte complex membrane

Singh RS, Dhaliwal R, Puri M// Punjabi Univ, Dept Biotechnol, Carbohydrate & Prot Biotechnol Lab, IN-147002 Patiala, Punjab, India

Process Biochem 2006 **41** (7) 1703

Production of inulinase from *Kluyveromyces marxianus* YS-1 using root extract of *Asparagus racemosus*

Tao YW, Tian GY// Shanghai Inst Organ Chem, State Key Lab Bioorgan & Nat Prod Chem, CN-200032 Shanghai, Peoples Rep China

Chin J Chem 2006 **24** (2) 235

Studies on the physicochemical properties, structure and antitumor activity of polysaccharide YhPS-I from the root of *Cordalis yanhusuo* Wang

Wack M, Blaschek W// W Mielck Schwan Apotheke, Dammstorstr 27, DE-20354 Hamburg, Germany

Carbohydr Res 2006 **341** (9) 1147

Determination of the structure and degree of polymerisation of fructans from *Echinacea purpurea* roots

Wang Q, Du YM*, Hu XW, Yang JH, Fan LH, Feng T// *Wuhan Univ, Dept Environm Sci, CN-430072 Wuhan, Peoples Rep China

J Appl Polym Sci 2006 **101** (1) 425

Preparation of alginate/soy protein isolate blend fibers through a novel coagulating bath

Zheng WF, Chen CF, Cheng QP, Wang YQ, Chu CC// Xuzhou Normal Univ, Key Lab Biotechnol Med Plants Jiangsu Province, CN-221009 Xuzhou, Peoples Rep China

Int Immunopharmacol 2006 **6** (7) 1093

Oral administration of exopolysaccharide from *Aphanoteche halophytica* (Chroococcales) significantly inhibits influenza virus (H1N1)-induced pneumonia in mice

13. Polysaccharides - Other

Chung C, Mesa J, Randolph MA, Yaremchuk M, Burdick JA*// *Univ Penn, Dept Bioeng, 120 Hayden Hall, 3320 Smith Walk, Philadelphia, Pa 19104, USA

J Biomed Mater Res Pt A 2006 **77A** (3) 518

Influence of gel properties on neocartilage formation by auricular chondrocytes photoencapsulated in hyaluronic acid networks

Kim JS, Reuhs BL, Michon F, Kaiser RE, Arumugham RG// Wyeth Vaccine Res & Dev, 4300 Oak Pk, Sanford, NC 27330, USA

Carbohydr Res 2006 **341** (8) 1061

Addition of glycerol for improved methylation linkage analysis of polysaccharides

Mutalik V, Manjeshwar LS, Wali A, Sairam M, Raju KVS, Aminabhavi TM*// *Karnatak Univ, Membrane Separat Div, Ctr Excellence Polym Sci, Pavate Nagar, IN-580003 Dharwad, India

Carbohydr Polym 2006 **65** (1) 9

Thermodynamics/hydrodynamics of aqueous polymer solutions and dynamic mechanical characterization of solid films of chitosan, sodium alginate, guar gum, hydroxy ethyl cellulose and hydroxypropyl methylcellulose at different temperatures

Terta M, Blekas G, Paraskevopoulou A*// *Aristotle Univ Thessaloniki, Sch Chem, Lab Food Chem & Technol, GR-54124 Thessaloniki, Greece

Food Hydrocolloid 2006 **20** (6) 863

Retention of selected aroma compounds by polysaccharide solutions: A thermodynamic and kinetic approach

Zhao X// Mentor Biopolymers Ltd, Heriot Watt Res Pk, Edinburgh EH14 4AP, Scotland

J Biomater Sci-Polym Ed 2006 **17** (4) 419

Synthesis and characterization of novel hyaluronic acid hydrogel