

Bibliography of carbohydrate polymers

(4 weeks journals. Search completed at 18th. Oct. 2006)

1. Books, reviews & symposia

- Denkbas EB, Ottenbrite RM// Hacettepe Univ, Dept Chem, Div Biochem, TR-06800 Ankara, Turkey
J Bioact Compat Polym 2006 **21** (4) 251
Perspectives on: Chitosan drug delivery systems based on their geometries
- Favela-Torres E, Volke-Sepulveda T, Viniegra-Gonzalez G// Univ Autonoma Metropolitana, Dept Biotechnol, Div Biol Sci, MX-55535 Mexico City, DF, Mexico
Food Technol Biotechnol 2006 **44** (2) 221
Production of hydrolytic depolymerizing pectinases
- Reis CP, Neufeld RJ, Vilela S, Ribeiro AJ, Veiga F// *Univ Coimbra, Fac Pharm, Pharmaceut Technol Lab, PT-3000 Coimbra, Portugal
J Microencapsul 2006 **23** (3) 245
Review and current status of emulsion/dispersion technology using an internal gelation process for the design of alginate particles
- Singh P, Gill PK// Guru Nanak Dev Univ, Dept Biotechnol, IN-143005 Amritsar, India
Food Technol Biotechnol 2006 **44** (2) 151
Production of inulinases: Recent advances
- Sivaramakrishnan S, Gangadharan D, Nampoothiri KM, Soccol CR, Pandey A// *CSIR, Regional Research Laboratory, Div Biotechnol, IN-695019 Trivandrum, India
Food Technol Biotechnol 2006 **44** (2) 173
 α -Amylases from microbial sources - An overview on recent developments

2. Cellulose

- Adden R, Muller R, Mischnick P// *Tech Univ Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, DE-38106 Braunschweig, Germany
Macromol Chem Phys 2006 **207** (11) 954
Fractionation of methyl cellulose according to polarity - A tool to differentiate first and second order heterogeneity of the substituent distribution
- Adden R, Muller R, Brinkmalm G, Ehrle R, Mischnick P// *TU Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, DE-38106 Braunschweig, Germany
Macromol Biosci 2006 **6** (6) 435
Comprehensive analysis of the substituent distribution in hydroxyethyl celluloses by quantitative MALDI-ToF-MS
- Ass BAP, Ciacco GT, Frollini E// *Univ Sao Paulo, Inst Quim Sao Carlos, CP 780, BR-13560-970 Sao Carlos, SP, Brazil
Bioresource Technol 2006 **97** (14) 1696
Cellulose acetates from linters and sisal: Correlation between synthesis conditions in DMAc/LiCl and product properties
- Beheshti N, Nguyen GTM, Kjoniksen AL, Knudsen KD, Nystrom B// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
Colloid Surface A 2006 **279** (1-3) 40
Structure and dynamics of aqueous mixtures of an anionic cellulose derivative and anionic or cationic surfactants
- Cappitelli F, Sorlini C, Pedemonte E, Princi E*, Vicini S// *Univ Milan, DISTAM, Via Celoria 2, IT-20133 Milan, Italy
Macromol Symposia 2006 **238** (1) 84
Effectiveness of graft synthetic polymers in preventing biodeterioration of cellulose-based materials

- Dai QZ, Khan SA, Kadla JF// *Univ British Columbia, 4025-2424 Main Hall, Vancouver, Brit Columbia, Canada V6T 1Z4
Cellulose 2006 **13** (3) 213
Transient rheological behavior of lyotropic (acetyl)(ethyl)cellulose/*m*-cresol solutions
- De Rodriguez NLG, Thielemans W, Dufresne A// *EEPG-INPG, BP 65, FR-38402 St Martin d'Heres, France
Cellulose 2006 **13** (3) 261
Sisal cellulose whiskers reinforced polyvinyl acetate nanocomposites
- Derecskei B, Derecskei-Kovacs A// Lyondell Chem, Res Ctr Baltimore, Glen Burnie, Md, USA
Mol Simul 2006 **32** (2) 109
Molecular dynamic studies of the compatibility of some cellulose derivatives with selected ionic liquids
- Drebushchak VA, Shakhtshneider TP, Apenina SA, Drebushchak TN, Medvedeva AS, Safronova LP, Boldyrev VV// Russian Acad Sci, Siberia Branch, Inst Mineralogy & Petrography, pr Ac Koptuyuga 3, RU-630090 Novosibirsk, Russia
J Therm Anal Calorim 2006 **84** (3) 643
Thermoanalytical investigation of drug-excipient interaction - Part I. Piroxicam, cellulose and chitosan as starting materials
- Eichhorn SJ, Davies GR// Univ Manchester Sch Mat, Ctr Mat Sci, Grosvenor St, Manchester M1 7HS, England
Cellulose 2006 **13** (3) 291
Modelling the crystalline deformation of native and regenerated cellulose
- Franco AP, Merce ALR// *Univ Fed Parana, Dept Quim, Lab Equilibrio Quim, Ctr Politecn, CP 19081, BR-81531-900 Curitiba, Parana, Brazil
React Funct Polym 2006 **66** (6) 667
Complexes of carboxymethylcellulose in water. 1: Cu^{2+} , VO^{2+} and Mo^{6+}
- Ganster J, Fink HP// *Fraunhofer Inst Appl Polymer Res, Geiselbergstr 69, DE-14476 Potsdam, Germany
Cellulose 2006 **13** (3) 271
Novel cellulose fibre reinforced thermoplastic materials
- Geng ZC, Sun JX, Liang SF, Zhang FY, Zhang YY, Xu F, Sun RC// *Beijing Forestry Univ, Coll Mat Sci & Technol, Beijing, Peoples Rep China
Int J Polym Anal Charact 2006 **11** (3) 209
Characterization of water- and alkali-soluble hemicellulosic polymers from sugarcane bagasse
- Guan JJ, Hanna MA// *Univ Nebraska, Ind Agr Prod Ctr, Dept Food Sci & Technol, 208 LW Chase Hall, Lincoln, Ne 68583, USA
Bioresource Technol 2006 **97** (14) 1716
Selected morphological and functional properties of extruded acetylated starch-cellulose foams
- Gupta KC, Khandekar K// Indian Inst Technol, Dept Chem, Polymer Res Lab, IN-247667 Roorkee, India
J Appl Polym Sci 2006 **101** (4) 2546
Graft copolymerization of acrylamide onto cellulose in presence of comonomer using ceric ammonium nitrate as initiator
- Hassan ML// Natl Res Ctr, Cellulose & Paper Dept, EG-12622 Cairo, Egypt
J Appl Polym Sci 2006 **101** (3) 2079
Preparation and thermal stability of new cellulose-based poly(propylene imine) and poly(amido amine) hyperbranched derivatives
- Hori R, Wada M// Kyoto Univ, Chem Res Inst, Uji, Kyoto, Japan
Cellulose 2006 **13** (3) 281
The thermal expansion of cellulose II and III_H crystals

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.

- Horikawa Y, Itoh T, Sugiyama J*// *Kyoto Univ, Res Inst Sustainable Humanosphere, Kyoto 611 0011, Japan
Cellulose 2006 **13** (3) 309
 Preferential uniplanar orientation of cellulose microfibrils reinvestigated by the FTIR technique
- Johnston JH, Kelly FM, Moraes J, Borrmann T, Flynn D// Victoria Univ Wellington, Sch Chem & Phys Sci, POB 600, Wellington, New Zealand
Curr Appl Phys 2006 **6** (3) 587
 Conducting polymer composites with cellulose and protein fibres
- Joshi SC, Lam YC// Nanyang Technol Univ, Sch Mech & Aerospace Engn, SG-639798 Singapore, Rep Singapore
J Appl Polym Sci 2006 **101** (3) 1620
 Modeling cellulose heat and degree of gelation for methyl hydrogels with NaCl additives
- Kim J, Yun S, Ounaies Z// Inha Univ, Ctr EAPap Actuator, Incheon 402 751, South Korea
Macromolecules 2006 **39** (12) 4202
 Discovery of cellulose as a smart material
- Kono H, Numata Y// Bruker BioSpin Co Ltd, Ninomiya 3-31-5, Tsukuba, Ibaraki 305 0051, Japan
Cellulose 2006 **13** (3) 317
 Structural investigation of cellulose I α and I β by 2D RFDR NMR spectroscopy: Determination of sequence of magnetically inequivalent D-glucose units along cellulose chain
- Kosaka PM, Kawano Y, Fantini MCA, Petri DFS*// *Univ Sao Paulo, Inst Quim, Ave Prof Lineu Prestes 748, BR-05508-900 Sao Paulo, Brazil
Macromol Mater Eng 2006 **291** (5) 531
 Structure and properties of maleated linear low-density polyethylene and cellulose acetate butyrate blends
- Li ZS, Ren JZ, Fane AG, Li DF, Wong FS// Nanyang Technol Univ, Inst Environm Sci & Engn, Innovation Ctr, SG-637723 Singapore, Singapore
J Membr Sci 2006 **279** (1-2) 601
 Influence of solvent on the structure and performance of cellulose acetate membranes
- Liu CX, Bai RB*// *Natl Univ Singapore, Fac Engr, Dept Chem & Biomol Engr, 10 Kent Ridge Crescent, SG-119260 Singapore, Rep Singapore
J Membr Sci 2006 **279** (1-2) 336
 Preparing highly porous chitosan/cellulose acetate blend hollow fibers as adsorptive membranes: Effect of polymer concentrations and coagulant compositions
- Ohno T, Nishio Y*// *Kyoto Univ, Grad Sch Agr, Div Forest & Biomat Sci, Kyoto 606 8502, Japan
Cellulose 2006 **13** (3) 245
 Cellulose alkyl ester/vinyl polymer blends: Effects of butyryl substitution and intramolecular copolymer composition on the miscibility
- Rachocki A, Tritt-Goc J*// *Polish Acad Sci, Inst Mol Phys, M Smoluchowski 17, PL-60179 Poznan, Poland
J Polym Res 2006 **13** (3) 201
 The molecular origin of nuclear magnetic relaxation in methyl cellulose and hydroxypropylmethyl cellulose
- Rokhade AP, Agnihotri SA, Patil SA, Mallikarjuna NN, Kulkarni PV, Aminabhavi TM*// *Karnatak Univ, Drug Delivery Div, Ctr Excellence Polym Sci, IN-580003 Dharwad, India
Carbohydr Polym 2006 **65** (3) 243
 Semi-interpenetrating polymer network microspheres of gelatin and sodium carboxymethyl cellulose for controlled release of ketorolac tromethamine
- Rubacha M// Tech Univ Lodz, Man-Made Fibers Dept, PL-90543 Lodz, Poland
J Appl Polym Sci 2006 **101** (3) 1529
 Magnetically active composite cellulose fibers
- Said GS, Abd-El Kader FH, El Naggar MM, Anees BA// Fayoum Univ, Fac Sci, Phys Dept, Solid State Phys, Fayoum, Egypt
Carbohydr Polym 2006 **65** (3) 253
 Differential scanning calorimetry and dielectric properties of methyl-2-hydroxyethyl cellulose doped with erbium nitrate salt
- Shen D, Yu H, Huang Y*// *Inst Chem, State Key Lab Polymer Phys & Chem, Joint Lab Polymer Sci & Mat, CN-100080 Beijing, Peoples Rep China
Cellulose 2006 **13** (3) 235
 Synthesis of graft copolymer of ethyl cellulose through living polymerization and its self-assembly
- Uraki Y, Imura T, Kishimoto T, Ubukata M// Hokkaido Univ, Grad Sch Agr, Div Appl Biosci, Sapporo, Hokkaido 060 858, Japan
Cellulose 2006 **13** (3) 225
 Body temperature-responsive gels derived from hydroxypropylcellulose bearing lignin II: Adsorption and release behavior
- Vander Wielen LC, Ostenson M, Gatenholm P, Ragauskas AJ*// *Georgia Inst Technol, Inst Paper Sci & Technol, Sch Chem & Biochem, 500 Tenth St NW, Atlanta, Ga 30332, USA
Carbohydr Polym 2006 **65** (2) 179
 Surface modification of cellulosic fibers using dielectric-barrier discharge
- Vidal F, Fichet O, Laskar J, Teyssie D*// *Univ Cergy Pontoise, Lab Physicochim Polym & Interfaces, 5 Mail Gay Lussac, FR-95031 Cergy Pontoise, France
Polymer 2006 **47** (11) 3747
 Polysiloxane-cellulose acetate butyrate cellulose interpenetrating polymers networks close to true IPNs on a large composition range. Part II
- Watanabe A, Morita S, Ozaki Y*// *Kwansei Gakuin Univ, Sch Sci & Technol, Dept Chem, 2-1 Gakuen, Sanda 669 1337, Japan
Appl Spectrosc 2006 **60** (6) 611
 Temperature-dependent structural changes in hydrogen bonds in microcrystalline cellulose studied by infrared and near-infrared spectroscopy with perturbation-correlation moving-window two-dimensional correlation analysis
- Xie K, Hou A, Sun Y// Donghua Univ, Modern Text Inst, CN-200051 Shanghai, Peoples Rep China
J Appl Polym Sci 2006 **101** (4) 2700
 The morphological structures of net-modified cotton cellulose with triazine derivative containing multireactive groups
- Xu F, Liu CF, Geng ZC, Sun JX, Sun RC*, Hei BH, Lin L, Wu SB, Je J// *NW Agr & Forestry Univ, Coll Forestry, 3 Taicheng Rd, CN-712100 Yangling, Shanxi, Peoples Rep China
Polym Degrad Stabil 2006 **91** (8) 1880
 Characterisation of degraded organosolv hemicelluloses from wheat straw
- Yamagishi TA, Nakamoto Y, Sixou P// Kanazawa Univ, Grad Sch Nat Sci & Technol, Kanazawa, Ishikawa 920 119, Japan
Cellulose 2006 **13** (3) 205
 Preparation and cholesteric mesophase properties of (butyl-co-pentyl) propyl-cellulose
- Yamamoto H, Horii F*, Hirai A// *Fukui Natl Coll Technol, Fukui 916 8507, Japan
Cellulose 2006 **13** (3) 327
 Structural studies of bacterial cellulose through the solid-phase nitration and acetylation by CP/MAS ¹³C NMR spectroscopy
- Zimnitsky DS, Yurkshtovich TL, Bychkovsky PM// Belarussian State Univ, Res Inst Phys Chem Problems, 14 Leningradskaia St, BY-220050 Minsk, Byelarus
React Funct Polym 2006 **66** (5) 519
 Adsorption of zwitterionic drugs on oxidized cellulose from aqueous solutions

4. Chitin/Chitosan

- Alonso-Sande M, Cuna M, Remunan-Lopez C*// *Univ Santiago de Compostela, Fac Pharm, Dept Pharmaceut Technol, Santiago de Compostela, Spain
Macromolecules 2006 **39** (12) 4152
 Formation of new glucomannan-chitosan nanoparticles and study of their ability to associate and deliver proteins
- Babak VG, Desbrieres J*// *Russian Acad Sci, Annesmeyanov Organoelement Cpd Inst, 28 Vavilova Str, RU-117813 Moscow, Russia
Colloid Polym Sci 2006 **284** (7) 745
 Dynamic surface tension and dilatational viscoelasticity of adsorption layers of alkylated chitosans and surfactant-chitosan complexes
- Bajpai SK, Tankhiwale R// Govt Model Sci Coll, Dept Chem, Polymer Res Lab, IN-482001 Jabalpur, Madhya Pradesh, India
J Macromol Sci Pure Appl Chem 2006 **43** (4-5) 621
 A novel approach for testing the Hixon-Crowel model for *in vitro* release of vitamin B₂ from chitosan coated calcium alginate beads
- Bajpai SK, Tankhiwale R// Govt Model Sci Coll, Dept Chem, Polymer Res Lab, IN-482001 Jabalpur, India
React Funct Polym 2006 **66** (6) 645
 Investigation of water uptake behavior and stability of calcium alginate/chitosan bi-polymeric beads: Part-I
- Bernkop-Schnurch A, Heinrich A, Greimel A// Innsbruck Univ, Inst Pharm, Dept Pharmaceut Technol, 52 Josef Moller Haus, AT-6020 Innsbruck, Austria
Eur J Pharm Biopharm 2006 **63** (2) 166
 Development of a novel method for the preparation of submicron particles based on thiolated chitosan
- Cai J, Yang J, Du Y*, Fan L, Qiu Y, Li J, Kennedy JF// *Wuhan Univ, Dept Environm Sci, CN-430079 Wuhan, Hubei, Peoples Rep China
Carbohydr Polym 2006 **65** (2) 211
 Purification and characterization of chitin deacetylase from *Scopulariopsis brevicaulis*
- Chen W, Lu Z, Enslin G, Olivier E, Pillay V, Steenekamp J, Hamman J// Tshwane Univ Technol, Private Bag X680, ZA-0001 Pretoria, Rep Sth Africa
J Drug Deliv Sci Technol 2006 **16** (3) 191
 Cross-linked chitosan matrix-based multiple-unit drug delivery systems
- Diaz-Rojas EI, Arguelles-Monal WM, Higuera-Ciajara I, Hernandez J, Lizardi-Mendoza J*, Goycoolea FM// *Ctr Invest Alimentacion & Desarrollo, Lab Biopolymers, AC POB 1735, Hermosillo Sonora, Mexico
Macromol Biosci 2006 **6** (5) 340
 Determination of chitin and protein contents during the isolation of chitin from shrimp waste

- Feng T, Du YM*, Yang JH, Li J, Shi XW// *Wuhan Univ, Coll Resource & Environm Sci, Dept Environm Sci, CN-430072 Wuhan, Hubei, Peoples Rep China
J Appl Polym Sci 2006 **101** (3) 1334
 Immobilization of a nonspecific chitosan hydrolytic enzyme for application in preparation of water-soluble low-molecular-weight chitosan
- Halabalova V, Simek L// Tomas Bata Univ, Fac Technol, TGM 275, CZ-76272 Zlin, Czech Republic
Int J Polym Anal Charact 2006 **11** (3) 185
 A study of the interaction between chitosan and poly(ethylene glycol) by viscosimetry method
- Khurma JR, Rohindra DR, Nand AV// Univ Sth Pacific, Dept Chem, POB 1168, Suva, Fiji
J Macromol Sci Pure Appl Chem 2006 **43** (4-5) 749
 Synthesis and properties of hydrogels based on chitosan and poly(vinyl alcohol) crosslinked by genipin
- Kobayashi S, Makino A, Tachibana N, Ohmae M// Kyoto Inst Technol, R&D Ctr Biobased Mat, Kyoto 606 8585, Japan
Macromol Rapid Commun 2006 **27** (10) 781
 Chitinase-catalyzed synthesis of a chitin-xylan hybrid polymer: A novel water-soluble β (1 $\rightarrow$ 4) polysaccharide having an *N*-acetylglucosamine-xylose repeating unit
- Maestrelli F, Garcia-Fuentes M, Mura P, Alonso MJ// *Univ Santiago de Compostela, Dept Pharm & Pharmaceut Technol, Campus Sur s/n, ES-15782 Santiago de Compostela, Spain
Eur J Pharm Biopharm 2006 **63** (2) 79
 A new drug nanocarrier consisting of chitosan and hydroxypropylcyclodextrin
- No HK, Kim SH, Lee SH, Park NY, Prinyawiwatkul W// Catholic University Daegu, Department Food Sci & Technol, Hayang, Gyeongsan 712 702, South Korea
Carbohydr Polym 2006 **65** (2) 174
 Stability and antibacterial activity of chitosan solutions affected by storage temperature and time
- Outokesh M, Mimura H, Niibori Y, Tanaka K// Tohoku Univ, Grad Sch Engrn, Dept Quantum Sci & Energy, Aramaki Aza Aoba 6-6, Sendai, Miyagi 980 8579, Japan
J Microencapsul 2006 **23** (3) 291
 Preparation of stable alginate microcapsules coated with chitosan or polyethyleneimine for extraction of heavy metal ions
- Ozturk E, Agalar C, Keceli K, Denkbaz EB// *Hacettepe Univ, Dept Chem, Div Biochem, Ankara, Turkey
J Appl Polym Sci 2006 **101** (3) 1602
 Preparation and characterization of ciprofloxacin-loaded alginate/chitosan sponge as a wound dressing material
- Park JH, Cho YW, Son YJ, Kim K, Chung H, Jeong SY, Choi K, Park CR, Park RW, Kim IS, Kwon IC// *Korea Advanced Institute Science & Technology, Center Biomedical Research, 39-1 Haweolgog dong, Seoul 136 791, South Korea
Colloid Polym Sci 2006 **284** (7) 763
 Preparation and characterization of self-assembled nanoparticles based on glycol chitosan bearing adriamycin
- Peng X, Zhang L*, Kennedy JF// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Carbohydr Polym 2006 **65** (3) 288
 Release behavior of microspheres from cross-linked *N*-methylated chitosan encapsulated ofloxacin
- Sebastien F, Stephane G, Copinet A, Coma V// *Univ Bordeaux 1, Lab Chim Substances Veg, Ctr Rech Chim Mol, 351 Cours Liberation, FR-33405 Talence, France
Carbohydr Polym 2006 **65** (2) 185
 Novel biodegradable films made from chitosan and poly(lactic acid) with antifungal properties against mycotoxinogen strains
- Spinks K, Shin SR, Wallace GG, Whitten PG, Kim SI, Kim SJ// *Hanyang University, Department Biomed Engrn, Seongdong POB 55, Seoul 133 791, South Korea
Sensor Actuator B Chem 2006 **115** (2) 678
 Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion
- Wang QZ, Chen XG*, Liu N, Wang SX, Liu CS, Meng XH, Liu CG// *Ocean Univ China, Coll Marine Life Sci, 5 Yushan Rd, CN-266003 Qingdao, Peoples Rep China
Carbohydr Polym 2006 **65** (2) 194
 Protonation constants of chitosan with different molecular weight and degree of deacetylation
- Xi FN, Wu JM// *Zhejiang Univ, Dept Chem, Yu Quan Campus, CN-310027 Hangzhou, Peoples Rep China
React Funct Polym 2006 **66** (6) 682
 Preparation of macroporous chitosan layer coated on silica gel and its application to affinity chromatography for trypsin inhibitor purification
- Yu DG, Lin WC*, Lin CH, Yang MC// *Nanya Inst Technol, Dept Text Sci, Taoyuan, Taiwan
Macromol Biosci 2006 **6** (5) 348
 Cytocompatibility and antibacterial activity of a PHBV membrane with surface-immobilized water-soluble chitosan and chondroitin-6-sulfate
- Yuan XB, Li H*, Yuan YB// *Nankai Univ, Inst Polym Chem, CN-300071 Tianjin, Peoples Rep China
Carbohydr Polym 2006 **65** (3) 337
 Preparation of cholesterol-modified chitosan self-aggregated nanoparticles for delivery of drugs to ocular surface
- Zan J, Chen HH, Jiang GQ, Lin Y, Ding FX// Tsing Hua Univ, Dept Chem Engrn, CN-100084 Beijing, Peoples Rep China
J Appl Polym Sci 2006 **101** (3) 1892
 Preparation and properties of crosslinked chitosan thermosensitive hydrogel for injectable drug delivery systems
- Zhang Y, Xue C*, Li Z, Zhang Y, Fu X// *Ocean Univ China, Dept Food Sci & Engrn, CN-266003 Qingdao, Peoples Rep China
Carbohydr Polym 2006 **65** (3) 229
 Preparation of half-deacetylated chitosan by forced penetration and its properties

5. Cyclodextrins

- Al Omari MM, Zughul MB, Davies JED, Badwan AA// *Jordanian Pharmaceut Mfg Co, Naur, Jordan
J Inclusion Phenom Macrocycl Chem 2006 **54** (3-4) 159
 Factors contributing to solubility synergism of some basic drugs with β -cyclodextrin in ternary molecular complexes
- Benmerad B, Clair P, Armspach D*, Matt D, Balegroune F, Toupet L// *LC3 CNRS-ULP, Lab Chim Inorg Mol, 1 Blaise Pascal, FR-67008 Strasbourg, France
Chem Commun 2006 (25) 2678
 Sulfur-capped cyclodextrins: A new class of cavitands with extroverted as well as inverted donor functionalities
- Bettinetti G, Sorrenti M, Catenacci L, Ferrari F, Rossi S// Univ Pavia, Dipt Chim Farmaceut, Viale Taramelli 12, IT-27100 Pavia, Italy
J Pharm Biomed Anal 2006 **41** (4) 1205
 Polymorphism, pseudopolymorphism, and amorphism of peracetylated α -, β -, and γ -cyclodextrins
- Dignam CF, Randall LA, Blacken RD, Cunningham PR, Lester SKG, Brown MJ, French SC, Aniaeyei SE, Wenzel TJ// *Bates Coll, Dept Chem, Lewiston, Me 04240, USA
Tetrahedron Asymmetry 2006 **17** (8) 1199
 Carboxymethylated cyclodextrin derivatives as chiral NMR discriminating agents
- Hashidzume A, Harada A// *Osaka Univ, Grad Sch Sci, Dept Macromol Sci, Toyonaka, Osaka 560 0043, Japan
Polymer 2006 **47** (10) 3448
 Macromolecular recognition by cyclodextrins. Interaction of cyclodextrins with polymethacrylamides bearing hydrophobic amino acid residues
- Kim H, Jeong K, Park H, Jung S// *Konkuk Univ, Dept Adv Technol Fusion, 1 Hwayang dong, Seoul 143 701, South Korea
J Inclusion Phenom Macrocycl Chem 2006 **54** (3-4) 165
 Preference prediction for the stable inclusion complexes between cyclodextrins and monocyclic insoluble chemicals based on Monte Carlo docking simulations
- Lerchner J, Kirchner R, Seidel J*, Wahlisch D, Wolf G, Konig WA// *TU Bergakademie, Inst Phys Chem, Leipziger Str 29, DE-09596 Freiberg, Germany
Thermochim Acta 2006 **445** (2) 98
 Determination of molar heats of absorption of enantiomers into thin chiral coatings by combined IC-calorimetric and microgravimetric (QMB) measurements II. Thermodynamics of enantioselectivity in modified cyclodextrins
- Novak C, Ehen Z, Fodor M, Jicsinszky L, Orgovanyi J// Hungarian Acad Sci, Budapest Univ Technol & Econ, Res Grp Tech Anal Chem, Szt Gellert ter 4, HU-1111 Budapest, Hungary
J Therm Anal Calorim 2006 **84** (3) 693
 Application of combined thermoanalytical techniques in the investigation of cyclodextrin inclusion complexes
- Suzuki I, Ui M, Yamauchi A// Tohoku Univ, Grad Sch Pharmaceut Sci, Aoba ku, Sendai, Miyagi 980 8578, Japan
Anal Sci 2006 **22** (5) 655
 Pyrene-appended α -cyclodextrin as a fluorescent pH probe responding to a wide range
- Taulier N, Chalikian TV// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, 144 Coll St, Toronto, Ontario, Canada M5S 3M2
J Phys Chem B 2006 **110** (25) 12222
 Hydrophobic hydration in cyclodextrin complexation
- Topchieva IN, Spiridonov VV*, Kataeva NA, Gubin SP, Filippov SK, Lezov AV// *Lomonosov State Univ, Dept Chem, GSP-3, RU-119899 Moscow, Russia
Colloid Polym Sci 2006 **284** (7) 795
 Magnetic nanocomposites based on cyclodextrin-containing molecular tubes and iron nanoparticles

6. Lignin

- Csiszar E, Losonczy A, Koczka B, Szakacs G, Pomlenyi A// Tech Univ Budapest, Dept Plast & Rubber Technol, HU-1521 Budapest, Hungary
Biotechnol Lett 2006 **28** (10) 749
 Degradation of lignin-containing materials by xylanase in biopreparation of cotton

7. Lipopolysaccharides

- Kovacik V, Bekesova S, Tvaroska I, Kovac P// Slovak Acad Sci, Inst Chem, Dubravska cesta 9, SK-84538 Bratislava, Slovakia
J Am Soc Mass Spectrom 2006 **17** (6) 749
 Positive electrospray ion trap multistage mass spectrometric fragmentation of synthetic analogs of saccharide part of lipopolysaccharides of *Vibrio cholerae* O:1
 Lee BR, Jeon JM, Jung JH, Jeon HB, Kim KS// *Yonsei Univ, Ctr Bioact Mol Hybrids, Seoul 120 749, South Korea
Can J Chem 2006 **84** (4) 506
 Synthesis of the tetrasaccharide repeat unit of the O-antigen polysaccharide from *Escherichia coli* O77 employing the 2'-carboxybenzyl glycoside
 Lemanski G, Ziegler T// Univ Tubingen, Inst Organ Chem, Auf'm Morgenstelle 18, DE-72076 Tubingen, Germany
Eur J Org Chem 2006 (11) 2618
 Synthesis of pentasaccharide fragments related to the O-specific polysaccharide of *Shigella flexneri* serotype 1a

8. Pectin

- Bedouet L, Denys E, Courtois B, Courtois J// Museum Nat Hist Naturelle, USM 0401, 7 rue Cavier, FR-75231 Paris, France
Carbohydr Polym 2006 **65** (2) 165
 Changes in esterified pectins during development in the flax stems and leaves
 Croak S, Corredig M// *Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1
Food Hydrocolloid 2006 **20** (7) 961
 The role of pectin in orange juice stabilization: Effect of pectin methylesterase and pectinase activity on the size of cloud particles
 Jacob N, Prema P// *CSIR, Reg Res Lab, Div Biotechnol, IN-695019 Trivandrum, India
Food Technol Biotechnol 2006 **44** (2) 263
 Influence of mode of fermentation on production of polygalacturonase by a novel strain of *Streptomyces lydicus*
 Joshi VK, Parmar M, Rana NS// YS Parmar Univ Hort & Forestry, Dept Postharvest Technol, Fermentat Technol Lab, IN-173230 Solan, India
Food Technol Biotechnol 2006 **44** (2) 253
 Pectin esterase production from apple pomace in solid-state and submerged fermentations
 Patil SR, Dayanand A// Vishweshwariah Coll Appl Sci, IN-585102 Gulbarga, India
Food Technol Biotechnol 2006 **44** (2) 289
 Exploration of regional agrowastes for the production of pectinase by *Aspergillus niger*
 Popov SV, Golovchenko VV, Ovodova RG, Smirnov VV, Khramova DS, Popova GY, Ovodov YS// Russian Acad Sci, Urals Branch, Inst Physiol, Komi Sci Ctr, 50 Pervomaiskaya Str, RU-167982 Syktyvkar, Russia
Vaccine 2006 **24** (26) 5413
 Characterisation of the oral adjuvant effect of lemnian, a pectic polysaccharide of *Lemna minor* L.
 Tho I, Kjoniksen AL*, Knudsen KD, Nystrom B// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
Eur Polym J 2006 **42** (5) 1164
 Effect of solvent composition on the association behavior of pectin in methanol-water mixtures

9. Starch

- Bao JS, Shen SQ, Sun M, Corke H// Zhejiang Univ, Coll Agr & Biotechnol, Inst Nucl Agr Sci, Hua Jiachi Campus, CN-310029 Hangzhou, Peoples Rep China
Starch 2006 **58** (6) 259
 Analysis of genotypic diversity in the starch physicochemical properties of nonwaxy rice: Apparent amylose content, pasting viscosity and gel texture
 Bello-Perez LA, Garcia-Suarez FJ, Mendez-Montealvo G, Do Nascimento JRO, Lajolo FM, Cordenunsi BR// *USP, FCF, Dept Alimentos & Nutr Expt, Lab Quim Bioquim & Biol Mol Alimentos, BR-05508-900 Sao Paulo, Brazil
Starch 2006 **58** (6) 283
 Isolation and characterization of starch from seeds of *Araucaria brasiliensis*: A novel starch for application in food industry

- Chanvrier H, Valle GD, Lourdin D// *INRA, Unite Recherches Biopolymeres Interactions & Assemblages, rue Geraudiere, BP 71627, FR-44316 Nantes 03, France
Carbohydr Polym 2006 **65** (3) 346
 Mechanical behaviour of corn flour and starch-zein based materials in the glassy state: A matrix-particle interpretation
 Chen Y, Ishikawa Y, Maekawa T, Zhang Z// *Univ Tsukuba, Inst Agr & Forest Engn, Tennoudai 1-1-1, Tsukuba, Ibaraki 305 8572, Japan
Trans ASAE 2006 **49** (1) 85
 Preparation of acetylated starch/bagasse fiber composites by extrusion
 Dewar RJ, Joyce MJ// *Lancaster University, Engineering Department, Nuclear and Biomedical Engineering Research Group, Lancaster, Lancs LA1 4YR, England
Carbohydr Polym 2006 **65** (3) 296
 The thixotropic and rheopectic behaviour of maize starch and maltodextrin thickeners used in dysphagia therapy
 Dontulwar JR, Borikar DK, Gogte BB// Priyadarshini Inst Engn & Technol, Dept Chem, Beside CRPF Campus, Mauza Shivangaon, IN-440009 Nagpur, Maharashtra, India
Carbohydr Polym 2006 **65** (2) 207
 An ester polymer synthesis and its characterization using starch, glycerol and maleic anhydride as precursor
 Fu ZS, Xue HL*, Wang CQ, Liu MD, Yuan L// *Gansu Agr Univ, Coll Sci, CN-730070 Lanzhou, Peoples Rep China
J Appl Polym Sci 2006 **101** (4) 2123
 Relationship between the absorption spectra and spatial hindrance in starch graft copolymers
 Guo L, Zhang SF*, Ju BZ, Yang JZ, Quan X// *Dalian Univ Technol, State Key Lab Fine Chem, CN-116012 Dalian, Peoples Rep China
J Polym Res 2006 **13** (3) 213
 Removal of Pb(II) from aqueous solution by cross-linked starch phosphate carbamate
 Haase NU// Fed Res Ctr Nutr & Food, Locat Detmold, Schuetzenberg 12, DE-32756 Detmold, Germany
Starch 2006 **58** (6) 268
 Rapid estimation of potato tuber quality by near-infrared spectroscopy
 Jiang W, Qiao X, Sun K// *Shanghai Jiao Tong Univ, Coll Mat Sci & Engn, State Key Lab Metal Matrix Composites, 1954 Hua Shan Rd, CN-200030 Shanghai, Peoples Rep China
Carbohydr Polym 2006 **65** (2) 139
 Mechanical and thermal properties of thermoplastic acetylated starch/poly(ethylene-co-vinyl alcohol) blends
 Jyothi AN, Moorthy SN, Rajasekharan KN// Cent Tuber Crops Res Inst, Div Crop Utilizat, IN-695017 Nanthapuram, Kerala, India
Starch 2006 **58** (6) 292
 Effect of cross-linking with epichlorohydrin on the properties of cassava (*Manihot esculenta* Crantz) starch
 Kapusniak J, Tomasik P// *Agr Univ, Dept Chem, Mickiewicz Ave 21, PL-31120 Krakow, Poland
J Microencapsul 2006 **23** (3) 341
 Lipid microencapsulation in starch
 Leeman AM, Karlsson ME*, Eliasson AC, Bjorck IME// *Lund Univ, Dept Food Technol, PO Box 124, SE-22100 Lund, Sweden
Carbohydr Polym 2006 **65** (3) 306
 Resistant starch formation in temperature treated potato starches varying in amylose/amylopectin ratio
 Liu H, Yu L*, Xie F, Chen L, Yu L// *School Light Industry & Food Engineering, Center Polymer Renewable Resource, GuangZhou, Peoples Rep China
Carbohydr Polym 2006 **65** (3) 357
 Gelatinization of cornstarch with different amylose/amylopectin content
 Majumder TP, Meissner D, Schick C, Roy SK// Univ Kalyani, Dept Phys, IN-741235 Kalyani, West Bengal, India
Carbohydr Polym 2006 **65** (2) 129
 Phase transition phenomena and the corresponding relaxation process of wheat starch-water polymer matrix studied by dielectric spectroscopic method
 Modig G, Nilsson L*, Bergenstahl B, Wahlund KG// *Lund Univ, Fac Engn LTH, Div Food Technol, Ctr Chem & Chem Engn, Box124, SE-22100 Lund, Sweden
Food Hydrocolloid 2006 **20** (7) 1087
 Homogenization-induced degradation of hydrophobically modified starch determined by asymmetrical flow field-flow fractionation and multi-angle light scattering
 Mondragon M, Mendoza-Martinez AM, Bello-Perez LA, Pena JL// Centro Invest Ciencia Aplicada & Tecnol Avanzada-IPN, Km 14.5 Carr Tampico-Pto Ind, MX-89600 Altamira, Tamps, Mexico
Carbohydr Polym 2006 **65** (3) 314
 Viscoelastic behavior of nixtamalized maize starch gels

Palav T, Seetharaman K*// *Penn State Univ, Dept Food Sci, 106 Borland Lab, University Park, Pa 16802, USA
Carbohydr Polym 2006 **65** (3) 364
 Mechanism of starch gelatinization and polymer leaching during microwave heating

Patel BK, Seetharaman K*// *Penn State Univ, Dept Food Sci, University Park, Pa 16802, USA
Carbohydr Polym 2006 **65** (3) 381
 Effect of heating rate on starch granule morphology and size

Pongsawatmanit R, Temsiripong T, Ikeda S, Nishinari K// Kasetsart Univ, Fac Agroind, Dept Prod Dev, 50 Phaholyothin Rd, TH-10900 Bangkok, Thailand
J Food Eng 2006 **77** (1) 41
 Influence of tamarind seed xyloglucan on rheological properties and thermal stability of tapioca starch

Qi Q, Wu YP, Tian M, Liang GH, Zhang LQ*, Ma J// *Beijing Univ Chem Technol, Minist Educ Key Lab Nano-materials, CN-100029 Beijing, Peoples Rep China
Polymer 2006 **47** (11) 3896
 Modification of starch for high performance elastomer

Sae-Kang V, Suphantharika M*// *Mahidol Univ, Fac Sci, Dept Biotechnol, Rama VI Road, TH-10400 Bangkok, Thailand
Carbohydr Polym 2006 **65** (3) 371
 Influence of pH and xanthan gum addition on freeze-thaw stability of tapioca starch pastes

Shey J, Imam SH, Glenn GM, Orts WJ// USDA/ARS, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA
Ind Crops Products 2006 **24** (1) 34
 Properties of baked starch foam with natural rubber latex

Silva MC, Ibezim EC, Ribeiro TAA, Carvalho CWP, Andrade CT*// *Univ Fed Rio de Janeiro, Inst Quim, Programa Ciencia Alimentos, Ctr Tecnol, Bloco A, BR-21949-900 Rio de Janeiro, Brazil
Ind Crops Products 2006 **24** (1) 46
 Reactive processing and mechanical properties of cross-linked maize starch

Sita C, Burns M, Hassler R, Focke WW*// *Univ Pretoria, Inst Appl Mat, Dept Chem Engr, Lynwood Rd, ZA-0001 Pretoria, Rep Sth Africa
J Appl Polym Sci 2006 **101** (3) 1751
 Tensile properties of thermoplastic starch-PVB blends

Tang HG, Qi Q, Wu YP, Liang GH, Zhang LQ*, Ma J// *Beijing Univ Chem Technol, Minist Educ Key Lab Nanomat, CN-100029 Beijing, Peoples Rep China
Macromol Mater Eng 2006 **291** (6) 629
 Reinforcement of elastomer by starch

Torrucó-Ulco JG, Chel-Guerrero LA, Betancur-Ancona D*// *Univ Autonoma Yucatan, Fac Ingn Quim, CD Ind, CP 1288, Apdo Postal 26, Suc F, Av Juarez 421, Merida, Yucatan, Mexico
Starch 2006 **58** (6) 300
 Isolation and molecular characterization of makal (*Xanthosoma yucatanensis*) starch

Wang HR, Chen KM*// *Nat'l Taiwan Univ Sci & Technol, Dept Polymer Engr, Sect 4 43 Keelung Rd, Taipei, Taiwan
Colloid Surface A 2006 **281** (1-3) 190
 Preparation and surface active properties of biodegradable dextrin derivative surfactants

Wu ZW, Song XY// Donghua Univ, Coll Chem & Chem Engr, CN-200051 Shanghai, Peoples Rep China
J Appl Polym Sci 2006 **101** (4) 2210
 Carboxymethylation of γ -irradiated starch

Xu SM, Cao LQ, Wu RL, Wang JD*// *Xinjiang Univ, Coll Chem & Chem Engr, CN-830046 Urumqi, Peoples Rep China
J Appl Polym Sci 2006 **101** (3) 1995
 Salt and pH responsive property of a starch-based amphoteric superabsorbent hydrogel with quaternary ammonium and carboxyl groups (II)

Zamudio-Flores PB, Vargas-Torres A, Perez-Gonzalez J, Bosquez-Molina E, Bello-Perez LA*// *IPN, Ctr Desarrollo Prod Biot, Col San Isidro, km 8-5 Carr Yautepec-Jojutla, MX-62731 Yautepec, Morelos, Mexico
Starch 2006 **58** (6) 274
 Films prepared with oxidized banana starch: Mechanical and barrier properties

Zhang J, Li A, Wang A*// *Chinese Acad Sci, Lanzhou Inst Chem Phys, Ctr Ecol & Green Chem, CN-730000 Lanzhou, Peoples Rep China
Carbohydr Polym 2006 **65** (2) 150
 Study on superabsorbent composite. VI. Preparation, characterization and swelling behaviors of starch phosphate-graft-acrylamide/attapulgit superabsorbent composite

Zhang J, Wang L, Wang A*// *Address as above
Macromol Mater Eng 2006 **291** (6) 612
 Preparation and swelling behavior of fast-swelling superabsorbent hydrogels based on starch-g-poly(acrylic acid-co-sodium acrylate)

10. Starch-degrading enzymes

Anto H, Trivedi U, Patel K*// *Sardar Patel Univ, Dept Biosci, IN-388120 Vallabh Vidyanagar, Gujarat, India
Food Technol Biotechnol 2006 **44** (2) 241
 α Amylase production by *Bacillus cereus* MTCC 1305 using solid-state fermentation

Bajpai SK, Bajpai M, Saxena S, Dubey S// Govt Model Sci Coll, Dept Chem, Polymer Res Lab, IN-482001 Jabalpur, India
J Macromol Sci Pure Appl Chem 2006 **43** (8) 1273
 Quantitative interpretation of the deviation from zero-order kinetics for the release of cyanocobalamin from a starch-based enzymatically degradable hydrogel

Gangadharan D, Sivaramakrishnan S, Nampoothiri KM, Pandey A*// *CSIR, Reg Res Lab, Div Biotechnol, IN-695019 Trivandrum, India
Food Technol Biotechnol 2006 **44** (2) 269
 Solid culturing of *Bacillus amyloliquefaciens* for α amylase production

Nair SU, Singhal RS, Kamat MY*// *Univ Mumbai, Inst Chem Technol, Food Engr & Technol Dept, IN-400019 Mumbai, India
Food Technol Biotechnol 2006 **44** (2) 275
 Enhanced production of thermostable pullulanase type 1 using *Bacillus cereus* FDTA 13 and its mutant

Negi S, Banerjee R*// *Indian Inst Technol, Agr & Food Engr Dept, Microbial Biotechnol & Downstream Proc Lab, IN-721302 Kharagpur, India
Food Technol Biotechnol 2006 **44** (2) 257
 Optimization of amylase and protease production from *Aspergillus awamori* in single bioreactor through EVOP factorial design technique

11. Polysaccharides - Microbial

Arvidson SA, Rinehart BT, Gadala-Maria F*// *Univ Sth Carolina, Dept Chem Engr, Columbia, SC 29208, USA
Carbohydr Polym 2006 **65** (2) 144
 Concentration regimes of solutions of levan polysaccharide from *Bacillus* sp.

Banerjee J, Srivastava A, Srivastava A, Behari K*// *Univ Allahabad, Dept Chem, Polymer Sci Res Lab, IN-211002 Allahabad, India
J Appl Polym Sci 2006 **101** (3) 1637
 Synthesis and characterization of xanthan gum-g-N-vinyl formamide with a potassium monopersulfate/Ag(I) system

Cristescu R, Dorcioman G, Ristoscu C, Axente E, Grigorescu S, Moldovan A, Mihailescu IN, Kocourek T, Jelinek M, Albulescu M, Buruiana T, Mihaiescu D, Stamatin I, Chrisey DB// Natl Inst Lasers Plasma & Radiation Phys, 409 Atomistilor, POB MG-36, RO-077125 Bucharest-Magurele, Romania
Appl Surf Sci 2006 **252** (13) 4647
 Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems

Fan JF, Zhang YY, Szesze T, Li FJ, Zhou MY, Saito M, Tatsumi E, Li LT*// *China Agr Univ, Coll Food Sci & Nutr Engr, 17 Qinghua Dong Lu, CN-100083 Beijing, Peoples Rep China
J Food Sci 2006 **71** (5) C285
 Improving functional properties of soy protein hydrolysate by conjugation with curdlan

Gandolfi-Donadio L, Gallo-Rodriguez C*, De Lederkremer RM// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Organ, CIHIDECAR, Ciudad Univ, Pabellon 2, AR-1428 Buenos Aires, DF, Argentina
Can J Chem 2006 **84** (4) 486
 Facile synthesis of α -D-Araf-(1 $\rightarrow$ 5)-D-Galf, the linker unit of the arabinan to the galactan in *Mycobacterium tuberculosis*

Matricardi P, Onorati I, Coviello T, Alhaique F*// *Univ Roma La Sapienza, Dipt Chim & Tecnol Sostanze Biologicamente Attive, Ple A Moro 5, IT-00185 Rome, Italy
Int J Pharm 2006 **316** (1-2) 21
 Drug delivery matrices based on scleroglucan/alginate/borax gels

Mozzi F, Vaningelgem F, Hebert EM, Van der Meulen R, Moreno MRF, De Valdez GF, De Vuyst L// Consejo Nacl Invest Cient & Tecn, Ctr Referencia Lactobacilos - CERELA, AR-4000 San Miguel de Tucuman, Argentina
Appl Environ Microbiol 2006 **72** (6) 4431
 Diversity of heteropolysaccharide-producing lactic acid bacterium strains and their biopolymers

Neelov I, Adolf D, Ratner M, Zhicou O, McLeish T// Russian Acad Sci, Inst Macromol Cpd, Bolshoi pr 31, RU-199004 Petersburg, Russia
Macromol Symposia 2006 **237** 81
 Molecular dynamics simulation of dextran extension at constant pulling speed

Rotureau E, Dellacherie E, Durand A*// *UMR CNRS-INPL 7568, Grp ENSIC, Lab Chim Phys Macromol, BP 20451, FR-54001 Nancy, France
Eur Polym J 2006 **42** (5) 1086
 Viscosity of aqueous solutions of polysaccharides and hydrophobically modified polysaccharides: Application of Fedors equation

Serrato RV, Sasaki GL, Cruz LM, Pedrosa FO, Gorin PAJ, Iacomini M*// *Univ Fed Parana, Dept Biochem & Mol Biol, POB 19046, BR-81531-990 Curitiba, Parana, Brazil
Can J Microbiol 2006 **52** (5) 489
 Culture conditions for the production of an acidic exopolysaccharide by the nitrogen-fixing bacterium *Burkholderia tropica*
 Sun G, Chu CC*// *Cornell Univ, Dept Textile & Apparel, Fiber & Polym Sci Program, Ithaca, NY 14853, USA
Carbohydr Polym 2006 **65** (3) 273
 Synthesis, characterization of biodegradable dextran-allyl isocyanate-ethylamine/polyethylene glycol-diacylate hydrogels and their *in vitro* release of albumin

12. Polysaccharides - Plant

Acedo-Carrillo JI, Rosas-Durazo A, Herrera-Urbina R, Rinaudo M, Goycoolea FM, Valdez MA*// *Univ Sonora, Dept Invest Polimeros & Mat, Blvd Transversal y Rosales, MX-83000 Hermosillo, Sonora, Mexico
Carbohydr Polym 2006 **65** (3) 327
 Zeta potential and drop growth of oil in water emulsions stabilized with mesquite gum
 Alvarez-Mancenido F, Braeckmans K, De Smedt SC, Demeester J, Landin M*, Martinez-Pacheco R// *Univ Santiago de Compostela, Fac Farm, Dept Farm & Tecnol Farmaceut, Santiago de Compostela, Spain
Int J Pharm 2006 **316** (1-2) 37
 Characterization of diffusion of macromolecules in konjac glucomannan solutions and gels by fluorescence recovery after photobleaching technique
 Bajpai SK, Saxena SK, Sharma S// Govt Model Sci Coll, Dept Chem, Polymer Res Lab, IN-482001 Jabalpur, India
React Funct Polym 2006 **66** (6) 659
 Swelling behavior of barium ions-crosslinked biopolymeric sodium alginate-carboxymethyl guar gum blend beads
 Caykara T, Demirci S// Gazi Univ, Dept Chem, TR-06500 Ankara, Turkey
J Macromol Sci Pure Appl Chem 2006 **43** (7) 1113
 Preparation and characterization of blend films of poly(vinyl alcohol) and sodium alginate
 Cozzolino R, Malvagna P, Spina E, Giori A, Fuzzati N, Anelli A, Garozzo D*, Impallomeni G// *CNR Inst Chim & Tecnol Polimeri, Viale R Margherita 6, IT-95125 Catania, Italy
Carbohydr Polym 2006 **65** (3) 263
 Structural analysis of the polysaccharides from *Echinacea angustifolia* radix
 Huang KS, Lai TH, Lin YC*// *Natl Cheng Kung Univ, Dept Engn Sci, 1 Univ Rd, Tainan 701, Taiwan
Lab Chip 2006 **6** (7) 954
 Manipulating the generation of Ca-alginate microspheres using microfluidic channels as a carrier of gold nanoparticles
 Katayama T, Nakauma M, Todoriki S, Phillips GO, Tada M// Okayama Univ, 3-1-1 Tsushima-naka, Okayama 700 8530, Japan
Food Hydrocolloid 2006 **20** (7) 983
 Radiation-induced polymerization of gum arabic (*Acacia senegal*) in aqueous solution
 Keshk S, Suwinarti W, Sameshima K// Kochi Univ, Fac Agr, Dept Forest Sci, Lab, 200 Monobe otsu, Nankoku-shi, Kochi 783 8502, Japan
Carbohydr Polym 2006 **65** (2) 202
 Physicochemical characterization of different treatment sequences on kenaf bast fiber
 Kip P, Meyer D*, Jellema RH// *Sensus, POB 1308, NL-4700 BH Roosendaal, The Netherlands
Int Dairy J 2006 **16** (9) 1098
 Inulins improve sensoric and textural properties of low-fat yoghurts
 Laos K, Parker R, Moffat J, Wellner N, Ring SG*// *Inst Food Res, Norwich Res Pk, Colney, Norwich NR4 7UA, England
Carbohydr Polym 2006 **65** (3) 235
 The adsorption of globular proteins, bovine serum albumin and β -lactoglobulin, on poly-L-lysine-furcellaran multilayers
 Leon I, Miron G, Alonso D// Univ Autonoma Estado Morelos, Ctr Invest Quim, Ave Univ 1001, MX-62209 Cuernavaca, Morelos, Mexico
J Nat Prod 2006 **69** (6) 896
 Characterization of pentasaccharide glycosides from the roots of *Ipomoea arborescens*
 Ma XD, Pawlik M*// *Univ British Columbia, Dept Min Engr, 517-6350 Stores Rd, Vancouver, Brit Columbia, Canada V6T 1Z4
J Colloid Interface Sci 2006 **298** (2) 609
 Adsorption of guar gum onto quartz from dilute mixed electrolyte solutions
 Nakamura A, Maeda H, Corredig M// Fuji Oil Co Ltd, Food Sci Res Inst, Tsukuba R&D Ctr, 4-3 Kinunodai, Yawara-mura, Tsukuba-gun, Ibaraki 300 2497, Japan
Food Hydrocolloid 2006 **20** (7) 1029
 Emulsifying properties of enzyme-digested soybean soluble polysaccharide

Opoku G, Qiu X, Doctor V*// *Prairie View A&M Univ, Dept Chem, PO Box 4107, Prairie View, Tx 77445, USA
Carbohydr Polym 2006 **65** (2) 134
 Effect of oversulfation on the chemical and biological properties of κ carrageenan
 Sanchez C, Mekhloufi G, Renard D// INPL, ENSAIA, Laboratoire Science & Genie Alimentaires, 2 Avenue Foret Haye, FR-54505 Vandoeuvre-les-Nancy 5, France
J Colloid Interface Sci 2006 **299** (2) 867
 Complex coacervation between β -lactoglobulin and *Acacia* gum: A nucleation and growth mechanism
 Shchipunov YA, Burtseva YV, Karpenko TY, Shevchenko NM, Zvyagintseva TN// POB 2230, RU-690022 Vladivostok, Russia
J Mol Catal B Enzym 2006 **40** (1-2) 16
 Highly efficient immobilization of *endo*-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition
 Shi J, Alves NM, Mano JE*// *University Minho, 3BS Research Group Biomaterials Biodegradables & Biomimetics, Campus Gualtar, PT-4710-057 Braga, Portugal
Macromol Biosci 2006 **6** (5) 358
 Drug release of pH/temperature-responsive calcium alginate/poly(*N*-isopropylacrylamide) semi-IPN beads
 Singh V, Tripathi DN// University Allahabad, Dept Chem, IN-211002 Allahabad, India
J Appl Polym Sci 2006 **101** (4) 2384
 Microwave promoted grafting of acrylonitrile onto *Cassia siamea* seed gum
 Tarrega A, Costell E*// *Inst Agroquim & Tecnol Alimentos - CSIC, Phys & Sensory Properties Lab, POB 73, ES-46100 Valencia, Spain
Int Dairy J 2006 **16** (9) 1104
 Effect of inulin addition on rheological and sensory properties of fat-free starch-based dairy desserts
 Vazquez-Ortiz FA, Lopez-Franco Y, Goycoolea FM// Ctr Invest Aliment & Desarrollo, Coordinacion Tecnol Alimentos Origen Anim, AC Hermosillo Sonora, MX-83000 Hermosillo, Sonora, Mexico
J Liq Chromatogr Relat Technol 2006 **29** (13) 1991
 Fractionation and characterization of the monosaccharides from mesquite *Prosopis* spp. and Arabic gum by normal, bonded phase, HPLC
 Wang YH, Zhang JC*// *Univ Calabria, Inst Membrane Technol, CNR, ITM, Via P Bucci 17/C, IT-87030 Commenda di Rende, Italy
J Food Eng 2006 **77** (1) 140
 A novel hybrid process, enhanced by ultrasonication, for xylan extraction from corncobs and hydrolysis of xylan to xylose by xylanase
 Zhang FJ, Cheng GX*, Gao Z, Li CP// *Tianjin Univ, Sch Mat Sci & Engr, CN-300072 Tianjin, Peoples Rep China
Macromol Mater Eng 2006 **291** (5) 485
 Preparation of porous calcium alginate membranes/microspheres *via* an emulsion templating method
 Zhang LM, Zhou FJ// Zhongshan Univ, Sch Chem & Chem Engr, Inst Polymer Sci, CN-510275 Guangzhou, Peoples Rep China
Colloid Surface A 2006 **279** (1-3) 34
 Synergistic viscosity characteristics of aqueous mixed solutions of hydroxypropyl- and carboxymethyl hydroxypropyl-substituted guar gums

13. Polysaccharides - Other

Bertholon I, Hommel H, Labarre D, Vauthier C*// *Fac Pharm, UMR CNRS 8612, Lab Physico-chim Pharmacotech Biopharm, FR-92296 Chatenay Malabry, France
Langmuir 2006 **22** (12) 5485
 Properties of polysaccharides grafted on nanoparticles investigated by EPR
 Katare R, Gupta PN, Mahor S, Rawat A, Khatri K, Katare Y, Panda AK, Vyas SP*// *Dr Hari Singh Gour Vishwavidyalaya, Dept Pharmaceut Sci, Drug Delivery Res Lab, IN-470003 Sagar, MP, India
J Drug Deliv Sci Technol 2006 **16** (3) 167
 Development of polysaccharide-capped niosomes for oral immunization of tetanus toxoid
 Ma Q, Feng S*// *Shandong Univ, Sch Chem & Chem Engr, Ji'nan, CN-250100 Shandong, Peoples Rep China
Carbohydr Polym 2006 **65** (3) 321
 Synthesis of a new kind of carbohydrate-modified polysiloxanes and its morphological transition of molecular aggregates in water
 Yang PF, Lee CK*// *Nat Taiwan Univ Sci & Technol, Dept Chem Engr, 43 Keelung Rd Sec 4, Taipei 106, Taiwan
Carbohydr Polym 2006 **65** (2) 159
 Purification of recombinant hyaluronan lyase of *Streptococcus pyogenes* bacteriophage H4489A expressed in *Escherichia coli* and its application for the specific determination of hyaluronan concentration