

Bibliography of carbohydrate polymers

(5 weeks journals. Search completed at 20th. June 2001)

1. Books, reviews & symposia

- Beery KE, Ladisch MA// *Purdue Univ, Renewable Resources Engn Lab, West Lafayette, In 47907, USA
Enzyme Microb Technol 2001 **28** (7-8) 573
Chemistry and properties of starch based desiccants (Review)
Brugnerotto J, Desbrieres J, Heux L, Mazeau K, Rinaudo M// *Univ Grenoble 1, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble 9, France
Macromol Symposia 2001 **168** 1
Overview on structural characterization of chitosan molecules in relation with their behavior in solution
Eichhorn SJ, Baillie CA, Zafeiropoulos N, Mwaikambo LY, Ansell MP, Dufresne A, Entwistle KM, Herrera-Franco PJ, Escamilla GC, Groom L Hughes M, Hill C, Rials TG, Wild PM// UMIST, Ctr Mat Sci, Grosvenor St, Manchester M1 7HS, England
J Mater Sci 2001 **36** (9) 2107
Review: Current international research into cellulosic fibres and composites
Hoover R// Mem Univ Newfoundland, Dept Biochem, St John's, Newfoundland, Canada A1B 3X9
Carbohydr Polym 2001 **45** (3) 253
Composition, molecular structure, and physicochemical properties of tuber and root starches: A review
Janes KA, Calvo P, Alonso MJ// *Univ Santiago de Compostela, Fac Pharm, Dept Phar & Pharmaceut Technol, ES-15706 Santiago de Compostela, Spain
Advan Drug Delivery Rev 2001 **47** (1) 83
Polysaccharide colloidal particles as delivery systems for macromolecules
Lindahl U// Univ Uppsala, Ctr Biomed, Dept Med Biochem & Microbiol, Box 582, SE-75123 Uppsala, Sweden
Glycoconj J 2000 **17** (7-9) 597
'Heparin': From anticoagulant drug into the new biology
Liu Y, You CC// Nankai Univ, Dept Chem, CN-300071 Tianjin, Peoples Rep China
Chem J Chinese Univ-Chinese 2001 **22** (4) 591
Molecular recognition studies on supramolecular systems: The binding ability and molecular selectivity of bridged bis(cyclodextrins) with model substrates (Review)
Okada M// Chubu Univ, Res Inst Biol Funct, 1200 Matsumoto cho, Kasugai, Aichi 487 8501, Japan
Prog Polym Sci 2001 **26** (1) 67
Molecular design and syntheses of glycopolymers (Review)
Olafsdottir ES, Ingolfsdottir K// Univ Iceland, Fac Pharm, Reykjavik, Iceland
Planta Med 2001 **67** (3) 199
Polysaccharides from lichens: Structural characteristics and biological activity (Review)
Almeida PL, Cidade MT, Godinho MH, Ribeiro AC, Figueirinhos JL// Univ Nova Lisboa, Dept Ciencia Mat, Quinta da Torre, PT-2825-114 Monte de Caparica, Portugal
Mol Cryst Liq Cryst 2001 **359** 399
Light scattering studies in cellulose derivative based PDLC type cells
Aranguren MI, Marcovich NE, Reboredo MM// UNMDP, Fac Ingn, INTEMA, Juan B Justo 4302, AR-7600 Mar del Plata, Argentina
Mol Cryst Liq Cryst 2000 **353** 95
Composites made from lignocellulosics and thermoset polymers

- Burke SE, Palepu R// *St Francis Xavier Univ, Dept Chem, Antigonish, Nova Scotia, Canada B2G 2W5
Carbohydr Polym 2001 **45** (3) 233
Interactions of a hydrophobically modified cationic cellulose ether derivative with amphiphiles of like charge in an aqueous environment
Chankvetadze B, Kartozia I, Breitkreutz J, Girod M, Knobloch M, Okamoto Y, Blaschke G// *Univ Munster, Inst Pharmaceut Chem, Hittorfstr 58-62, DE-48149 Munster, Germany
J Sep Sci 2001 **24** (4) 251
Comparative capillary chromatographic and capillary electrochromatographic enantioseparations using cellulose tris(3,5-dichlorophenylcarbamate) as chiral stationary phase
Chattopadhyay D, Chakraborty M, Mandal BM// *Indian Assoc Cultivat Sci, Polymer Sci Unit, IN-700032 Calcutta, India
Polym Int 2001 **50** (5) 538
Dispersion polymerization of aniline using hydroxypropylcellulose as stabilizer: Role of rate of polymerization
Esteghlalian AR, Srivastava V, Gilkes NR, Kilburn DG, Warren RAJ, Saddler JN// *Univ British Columbia, Forest Prod Biotechnol, Dept Wood Sci, 4th Floor, Vancouver, Brit Columbia, Canada V6T 1Z4
Appl Biochem Biotechnol 2001 **91-3** 575
Do cellulose binding domains increase substrate accessibility?
Fukui E, Miyamura N, Yoneyama T, Kobayashi M// Tanabe Seiya Co Ltd, Prod & Technol Dev Lab, Yodogawa ku, 16-89 Kashima 3 chome, Osaka 532 0085, Japan
Int J Pharm 2001 **217** (1-2) 33
Drug release from the mechanical properties of press-coated tablets with hydroxypropylmethylcellulose acetate succinate and plasticizers in the outer shell
Girod M, Chankvetadze B, Blaschke G// *Univ Munster, Inst Pharmaceut Chem, Hittorfstr 58-52, DE-48149 Munster, Germany
Electrophoresis 2001 **22** (7) 1282
Enantioseparations using nonaqueous capillary electrochromatography on cellulose and amylose tris(3,5-dimethylphenyl carbamates) coated on silica gels of various pore and particle size
Granja PL, Barbosa MA, Pouysegur L, De Jeso B, Rouais F, Baquey C// INEB, Lab Biomat, Rua Campo Alegre 823, PT-4150-180 Oporto, Portugal
J Mater Sci 2001 **36** (9) 2163
Cellulose phosphates as biomaterials. Mineralization of chemically modified regenerated cellulose hydrogels
Grigoriou AH, Ntalos GA// Aristotelian Univ, Sch Forestry & Nat Environm, POB 243, GR-54006 Thessaloniki, Greece
Ind Crops Products 2001 **13** (3) 209
The potential use of *Ricinus communis* L. (Castor) stalks as a lignocellulosic resource for particleboards
Gurdag G, Guclu G, Ozgumus S// Univ Istanbul, Fac Engn, Dept Chem Engn, TR-34850 Istanbul, Turkey
J Appl Polym Sci 2001 **80** (12) 2267
Graft copolymerization of acrylic acid onto cellulose: Effects of pretreatments and crosslinking agent
Hebeish A, Hashem M, Higazy A// Natl Res Ctr, Cairo, Egypt
Macromol Chem Phys 2001 **202** (6) 949
A new method for preventing catalytic degradation of cotton cellulose by ferrous or ferric ions during bleaching with hydrogen peroxide
Honkanen O, Seppa H, Eerikainen S, Tuominen R, Marvola M// Univ Helsinki, Dept Pharm, POB 56, FI-00014 Helsinki, Finland
STP Pharma Sciences 2001 **11** (2) 181
Bioavailability of ibuprofen from orally and rectally administered hydroxypro-

As a service to subscribers, each issue of the Journal contains a bibliography of 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.

- pyl methyl cellulose capsules compared to corresponding gelatine capsules
Huang Y// Chinese Acad Sci, Inst Chem, Beijing 100080, Peoples Rep China
Chin J Polym Sci 2001 **19** (3) 277
- Preparation and properties of ethyl-cyanoethyl cellulose/polyacrylic acid composite films with reflection colors
Kearny CM// Dow Chemical Co, Cellulosics R&D, Larkin Lab, Midland, MI 48674, USA
Carbohydr Polym 2001 **45** (3) 293
- Characterization of METHOCEL cellulose ethers by aqueous SEC with multiple detectors
Khulbe KC, Matsuura T, Lamarche G, Lamarche AM, Choi C, Noh SH// Univ Ottawa, Dept Chem Engn, Ind Membrane Res Inst, Stn A, 161 Louis Pasteur St, POB 450, Ottawa, Ontario, Canada K1N 6N5
Polymer 2001 **42** (15) 6479
- Study of the structure of asymmetric cellulose acetate membranes for reverse osmosis using electron spin resonance (ESR) method
Kim DB, Lee WS, Jo SM, Lee YM, Kim BC// Hanyang Univ, Div Chem Engn, Seoul 139791, South Korea
Polym J 2001 **33** (2) 139
- Effect of thermal history on the phase behavior of *N*-methyl morpholine *N*-oxide hydrates and their solutions of cellulose
Kim JS, Lee YY*, Torget RW// *Auburn Univ, Dept Chem Engn, 230 Ross Hall, Auburn, AL 36849, USA
Appl Biochem Biotechnol 2001 **91-3** 331
- Cellulose hydrolysis under extremely low sulfuric acid and high-temperature conditions
Kim KH, Tucker MP, Keller FA, Aden A, Nguyen QA// *Natl Renewable Energy Lab, 1617 Cole Blvd, Golden, CO 80401, USA
Appl Biochem Biotechnol 2001 **91-3** 253
- Continuous countercurrent extraction of hemicellulose from pretreated wood residues
Kim UJ, Kuga S// Univ Tokyo, Grad Sch Agr & Life Sci, Dept Biomat Sci, Bunkyo ku, Yayoi 1-1-1, Tokyo 113 8657, Japan
Thermochim Acta 2001 **369** (1-2) 79
- Thermal decomposition of dialdehyde cellulose and its nitrogen-containing derivatives
Kislenko VN, Kuryatnikov EI// Lvivska Politehnika State Univ, Lvov, Ukraine
Russ J Gen Chem 2000 **70** (9) 1410
- Kinetics of degradation of water-soluble cellulose ethers under the action of persulfate
Kojima M, Nakagami H// Daiichi Pharmaceut Co Ltd, Pharmaceut Formulation Res Lab, Edogawa ku, 16-13 Kita Kasai, 1 chome, Tokyo 134 8630, Japan
STP Pharma Sciences 2001 **11** (2) 145
- Preparation of the controlled-release matrix tablets of theophylline with micronized low-substituted hydroxypropyl cellulose by a fluidized hot-melt granulation method
Kotelnikova NE, Lashkevich OV, Panarin EF// Russian Acad Sci, Inst Macromol, Cpdns, Bolshoi Pr 31, RU-199004 St Petersburg, Russia
Macromol Symposia 2001 **166** 147
- Mutual effect of the interaction of human serum albumin with cellulose in water
Kukielka A, Iller E, Chmielewski AG, Zimek Z, Michalik J, Perlinska J, Stupinska H, Mikolajczyk W// Inst Nucl Chem & Technol, Dorodna 16, PL-03195 Warsaw, Poland
Mol Cryst Liq Cryst 2000 **354** 969
- Radiation stimulation of the reactivity of different types of cellulose pulps
Lahdenpaa E, Antikainen O, Yliroosi J// Kermanrannantie 9, FI-79700 Heinavesi, Finland
STP Pharma Sciences 2001 **11** (2) 129
- Direct compression with silicified and non-silicified microcrystalline cellulose: Study of some properties of powders and tablets
Landry CJT, Lum KK, O'Reilly JM// Eastman Kodak Co R&D, Imaging Mat & Media, Rochester, NY 14650, USA
Polymer 2001 **42** (13) 5781
- Physical aging of blends of cellulose acetate polymers with dyes and plasticizers
Laszkiewicz B// Tech Univ Lodz, Zeromskiego 116, PL-90543 Lodz, Poland
Mol Cryst Liq Cryst 2000 **353** 127
- Liquid crystal phenomena in cellulose-NMMO-H₂O system
Lee SH, Shiraishi N// GreenBio Inst, Shimokamo Morihonmachi 15, Sakyo ku, Kyoto 606 0805, Japan
J Appl Polym Sci 2001 **81** (1) 243
- Plasticization of cellulose diacetate by reaction with maleic anhydride, glycerol, and citrate esters during melt processing
Li XF, Ding EY*, Li GK// *Chinese Acad Sci, Guangzhou Inst Chem, Lab Cellulose & Lignocellulose Chem, CN-510650 Guangzhou, Peoples Rep China
Chin J Polym Sci 2001 **19** (3) 291
- A method of preparing spherical nano-crystal cellulose with mixed crystalline forms of cellulose I and II
Liu RG, Shao HL, Hu XC// *Dong Hua Univ, Coll Mat Sci & Engn, State Key Lab Modification Chem Fibers & Polymer Mat, CN-200051 Shanghai, Peoples Rep China
Macromol Mater Eng 2001 **286** (3) 179
- The online measurement of Lyocell fibers and investigation of elongational viscosity of cellulose *N*-methylmorpholine-*N*-oxide monohydrate solutions
Lu J, Li J, Yi M*, Ha HF// *Beijing Univ, Dept Tech Phys, CN-100871 Beijing, Peoples Rep China
Radiat Phys Chem 2001 **60** (6) 625
- Solvent effect on grafting polymerization of NIPAAm onto cotton cellulose via- γ -preirradiation method
Luner PE, Oh E// Yamanouchi Pharm Technol Inc, Stanford Res Park, 1050 Arastradero Rd, Palo Alto, CA 94304, USA
Colloid Surface A 2001 **181** (1-3) 31
- Characterization of the surface free energy of cellulose ether films
Mizoguchi K, Ishikawa M, Ohkubo S, Yamamoto A, Ouchi A, Sakuragi M, Ito T, Sugiyama O// Shizuoka Univ, 3-5-1 Johoku, Hamamatsu, Shizuoka 432 856, Japan
Compos Interface 2001 **7** (5-6) 497
- Laser surface treatment of regenerated cellulose fiber
Mun GA, Nurkeeva ZS, Khutoryanskiy VV, Mangazbaeva RA// Al Farabi Kazakh State Natl Univ, Dept Chem, ul Karasai Batyra 95, KZ-480012 Almaty, Kazakhstan
Polym Sci Ser B 2001 **43** (3-4) 73
- Interpolymer complexes of methylcellulose with polycarboxylic acids in aqueous solutions
Murty KVSN, Vasella A// *ETH Zentrum, Organ Chem Lab, Universitatsstr 16, CH-8092 Zurich, Switzerland
Helv Chim Acta 2001 **84** (4) 939
- Oligosaccharide analogues of polysaccharides: Part XXI - Towards new cellulose I mimics: Synthesis of dialkynyl C-glucosides of *peri*-substituted anthraquinone
Mutje P, Vilaseca F, Gou M, Pelach MA// Univ Girona, Dept Ingn Quim Agr & Tecnol Agroalimentaria, Girona, Spain
Afinidad 2001 **57** (491) 29
- Interactions between a cationic polyelectrolyte and cellulose fibres bleached for paper manufacture (Spanish, English Abstract)
Pavlov GM, Kolbina GF, Shtennikova IN, Michailova NA, Korneeva EV// St Petersburg State Univ, Inst Phys, Ulianovskaya Str 1, RU-198504 St Petersburg, Russia
Eur Polym J 2001 **37** (6) 1219
- Dynamo-optical properties of methylcellulose solutions and the optical anisotropy of glucopyranose ring
Pizzi A, Zhao C, Kamoun C, Heinrich H// Univ Nancy 1, ENSTIB, Epinal, France
J Appl Polym Sci 2001 **80** (12) 2128
- TTT and CHT curing diagrams of water-borne polycondensation resins on lignocellulosic substrates
Ramzi M, Vroege GJ, Lekkerkerker HNW// Univ Utrecht, Debye Inst, Van't Hoff Lab Phys & Colloid Chem, Padualaan 8, NL-3584 CH Utrecht, The Netherlands
Macromol Symposia 2001 **166** 209
- New insights in the properties of cellulose in phosphoric acid: Viscometric study
Regiani AM, Curvelo AAS, Pawlicka A, Gandini A, Le Nest JF// Univ Sao Paulo, Inst Fis & Quim Sao Carlos, CP 780, BR-13560 Sao Carlos SP, Brazil
Mol Cryst Liq Cryst 2000 **353** 181
- Polymer electrolytes derived from hydroxyethylcellulose/polyether films
Shulgina OV, Dollimore D, Turov VV// *Natl Acad Sci Ukraine, Inst Surface Chem, Gen Naumova Str 17, UA-03164 Kiev, Ukraine
Adsorpt Sci Technol 2000 **18** (10) 857
- Peculiarities in the hydration of cellulose in air and water suspensions as studied by ¹H NMR spectroscopy
Sousa AA, Petroianu A*, Neto VT, Rios VS, Barbosa AJA// *Avda Afonso Pena 1626, AP 1901, BR-30130-005 Belo Horizonte, MG, Brazil
Braz J Med Biol Res 2001 **34** (4) 519
- Effect of sodium carboxymethylcellulose and methylprednisolone on the healing of jejunal anastomoses in rats
Takahashi M, Shimazaki M// Japan Women's Univ, Fac Sci, Bunkyo ku, 2-8-1 Mejirodai, Tokyo 112 8681, Japan
J Polym Sci B Polym Phys 2001 **39** (9) 943
- Formation of junction zones in thermoreversible methylcellulose gels
Tate MC, Shear DA, Hoffman SW, Stein DG, La Placa MC// *Georgia Tech

- Emory Biomed Engn, Lab Neuroengn, 315 Ferst Dr, Atlanta, Ga 30332, USA
Biomaterials 2001 **22** (10) 1113
- Biocompatibility of methylcellulose-based constructs designed for intracerebral gelation following experimental traumatic brain injury
 Thompson DN, Hamilton MA// Idaho Natl Engn & Environm Lab, Dept Biotechnol, POB 1625, Idaho Falls, Id 83415, USA
Appl Biochem Biotechnol 2001 **91-3** 503
- Production of bacterial cellulose from alternate feedstocks
 Tomer G, Podczeck F, Newton JM*/ *Univ London, Sch Pharm, Dept Pharmaceut, 29-39 Brunswick Sq, London WC1N 1AX, England
Int J Pharm 2001 **217** (1-2) 237
- The influence of type and quantity of model drug on the extrusion/spheronization of mixtures with microcrystalline cellulose I. Extrusion parameters
 Topgaard D, Soderman O// Lund Univ, Ctr Chem & Chem Engn, Div Phys Chem 1, POB 124, SE-22100 Lund, Sweden
Langmuir 2001 **17** (9) 2694
- Diffusion of water absorbed in cellulose fibers studied with ^1H -NMR
 Tsianou M, Thuresson K*, Piculell L// *Lund Univ, Ctr Chem & Chem Engn, POB 124, SE-22100 Lund, Sweden
Colloid Polym Sci 2001 **279** (4) 340
- Phase separation in aqueous mixtures of hydrophobically modified cellulose derivatives with their nonmodified analogues
 Tsunashima Y// Kyoto Univ, Inst Chem Res, Kyoto 611 0011, Japan
Kobunshi Ronbunshu 2001 **58** (4) 171
- Variety of conformations and structures of cellulose derivatives in solution
 Vittadini E, Dickinson LC, Chinachoti P*/ *Univ Massachusetts, Food Sci Dept, Amherst, Ma 01003, USA
Carbohydr Polym 2001 **46** (1) 49
- ^1H and ^{2}H NMR mobility in cellulose
 Wada M// Univ Bristol, HH Wills Phys Lab, Tyndall Ave, Royal Fort, Bristol BS8 1TL, England
Macromolecules 2001 **34** (10) 3271
- In situ* observation of the crystalline transformation from cellulose III to I β
 Wojciechowski P// Tech Univ Lodz, Dept Mol Phys, ul Zeromskiego 116, PL-90924 Lodz, Poland
Mol Cryst Liq Cryst 2000 **354** 897
- Thermotropic mesomorphism of (2-hydroxypropyl)cellulose systems—the role of hydrophilic and lipophilic segments
 Xie JB, Hsieh YL*/ *Univ Calif, 1 Shields Ave, Davis, Ca 95616, USA
J Polym Sci A-Polym Chem 2001 **39** (11) 1931
- Enzyme-catalyzed transesterification of vinyl esters on cellulose solids
 Yang CW, Wu KH, Chang TC*, Hong YS, Chiu YS// *Chung Cheng Inst Technol, Dept Appl Chem, Ndu, Tao Yuan 335, Taiwan
Polym Degrad Stabil 2001 **72** (2) 297
- Chain dynamics and thermal stability of trifluoroacetylated ethyl cellulose
 Yoshioka M, Shiraishi N// Kyoto Univ, Grad Sch Agr, Div Forest & Biomat Sci, Kyoto 606 8502, Japan
Mol Cryst Liq Cryst 2000 **353** 59
- Biodegradable plastics from cellulose
- ### 3. Cellulose-degrading enzymes
- Domingues FC, Queiroz JA, Cabral JMS, Fonseca LP*/ *Inst Super Tecn, Ctr Engn Biol & Quim, PT-1049-001 Lisbon, Portugal
Biotechnol Lett 2001 **23** (10) 771
- Production of cellulases in batch culture using a mutant strain of *Trichoderma reesei* growing on soluble carbon source
 Mores WD, Knutson JS, Davis RH*/ *Univ Colorado, Dept Chem Engn, Boulder, Co 80309, USA
Appl Biochem Biotechnol 2001 **91-3** 297
- Cellulase recovery via membrane filtration
 Ogel ZB, Yarangumeli K, Dundar H, Ifrij I// Middle East Tech Univ, Dept Food Engn, TR-06531 Ankara, Turkey
Enzyme Microb Technol 2001 **28** (7-8) 689
- Submerged cultivation of *Scytalidium thermophilum* on complex lignocellulosic biomass for endoglucanase production
 Ponce-Noyola T, De la Torre M// IPN CINVESTAV, Dept Biotechnol & Biogen, Avda Inst Politecn Nacl 2508, MX-07300 Col Zacatenco DF, Mexico
Bioresource Technol 2001 **78** (3) 285
- Regulation of cellulases and xylanases from a derepressed mutant of *Cellulomonas flavigena* growing on sugar-cane bagasse in continuous culture
 Sharma A, Khare SK*, Gupta MN// *Indian Inst Technol, Dept Chem, Hauz Khas, IN-110016 New Delhi, India
Bioresource Technol 2001 **78** (3) 281
- Hydrolysis of rice hull by crosslinked *Aspergillus niger* cellulase
 Toyama H, Toyama N// Minamikyushu Univ, Fac Hort, Dept Food Sci & Technol, Miyazaki 8840 003, Japan
Appl Biochem Biotechnol 2001 **91-3** 787
- The effect of additional autoploidylation in a slow growing cellulase hyperproducer of *Trichoderma*
 Vinzant TB, Adney WS, Decker SR, Baker JO, Kinter MT, Sherman NE, Fox JW, Himmel ME*/ *Natl Renewable Energy Lab, Biotechnol Ctr Fuels & Chem, Golden, Co 80401, USA
Appl Biochem Biotechnol 2001 **91-3** 99
- Fingerprinting *Trichoderma reesei* hydrolases in a commercial cellulase preparation
- ### 4. Chitin/Chitosan
- Capitani D, De Angelis AA, Crescenzi V, Masci G, Segre AL// CNR, Res Area Rome, Inst Nuclear Chem & NMR Serv, MB 10, Monterotondo Stazione, IT-00016 Rome, Italy
Carbohydr Polym 2001 **45** (3) 245
- NMR study of a novel chitosan-based hydrogel
 Chenite A, Buschmann M, Wang D, Chaput C, Kandani N// BIOSYNTECH Ltd, 475 Armand Frappier Blvd, Laval TechnoPark, Montreal, Quebec, Canada H7V 4B3
Carbohydr Polym 2001 **46** (1) 39
- Rheological characterisation of thermogelling chitosan/glycerol-phosphate solutions
 Chirachanchai S, Lertworasirikul A, Tachabonyakiat W// Chulalongkorn Univ, Petroleum & Petrochem Coll, TH-10330 Bangkok, Thailand
Carbohydr Polym 2001 **46** (1) 19
- Carbaryl insecticide conjugation onto chitosan via iodochitosan and chitosan carbonyl imidazole precursors
 Colfen H, Berth G*, Dautzenberg H// *Univ Potsdam, Inst Organ Chem & Strukturanal, Am Neuen Palais 10, DE-14469 Potsdam, Germany
Carbohydr Polym 2001 **45** (4) 373
- Hydrodynamic studies on chitosans in aqueous solution
 Don TM, Hsu SC, Chiu WY*/ *Natl Taiwan Univ, Dept Chem Engn, Taipei 10764, Taiwan
J Polym Sci A-Polym Chem 2001 **39** (10) 1646
- Structures and thermal properties of chitosan-modified poly(methyl methacrylate)
 Dong YM, Xu CY, Wang JW, Wang M, Wu YS, Ruan YH// Xiamen Univ, Dept Mat Sci & Engn, State Key Lab Phys Chem Solid Surfaces, CN-361005 Xiamen, Peoples Rep China
Sci China B 2001 **44** (2) 216
- Determination of degree of substitution of *N*-acylated chitosan using IR spectra
 Duarte ML, Ferreira MC, Marvao MR, Rocha J// Univ Lisbon, CECUL, Dept Chem & Biochem, PT-1749-016 Lisbon, Portugal
Int J Biol Macromol 2001 **28** (5) 359
- Determination of the degree of acetylation of chitin materials by ^{13}C CP/MAS NMR spectroscopy
 Falini C, Fermani S, Ripamonti A// Univ Bologna, Dipt Chim G Ciamiciani, via Selmi 2, IT-40126 Bologna, Italy
J Inorg Biochem 2001 **84** (3-4) 255
- Oriented crystallization of octacalcium phosphate into β -chitin scaffold
 Gallstedt M, Tornqvist J, Hedenqvist MS*/ *Royal Inst Technol, Dept Polymer Technol, SE-10044 Stockholm, Sweden
J Polym Sci B Polym Phys 2001 **39** (10) 985
- Properties of nitrocellulose-coated and polyethylene-laminated chitosan and whey films
 Gildberg A, Stenberg E// NIFA-Norwegian Inst Fish & Aquacult, NO-9291 Tromso, Norway
Process Biochem 2001 **36** (8-9) 809
- A new process for advanced utilisation of shrimp waste
 Guibal E, Sweeney NV, Zikan MC, Vincent T, Tobin JM// Ecole Mines Ales, Lab Genie Environm Ind, 6 Ave Claviers, FR-30319 Ales, France
Int J Biol Macromol 2001 **28** (5) 401
- Competitive sorption of platinum and palladium on chitosan derivatives
 Hirano S// Chitin/Chitosan R&D Ctr, 445 Sakurudani, Tottori 680 0853, Japan
Macromol Symposia 2001 **168** 21
- Wet-spinning and applications of functional fibers based on chitin and chitosan
 Hu DD, Shi QZ, Tang ZX, Fang Y, Kennedy JF*/ *Univ Birmingham, Sch Chem, Res Park, Birmingham B15 2SQ, England
Carbohydr Polym 2001 **45** (4) 385
- CoSalen immobilized to chitosan and its electrochemical behavior
 Jiang Y, Li Y// Chinese Acad Sci, Sth China Inst Bot, CN-510650 Guangzhou, Peoples Rep China
Food Chem 2001 **73** (2) 139

- Effects of chitosan coating on postharvest life and quality of longan fruit
Kweon HY, Um IC, Park YH// Seoul Natl Univ, Dept Nat Fiber Sci, Suwon 441744, South Korea
Polymer 2001 **42** (15) 6651
- Structural and thermal characteristics of *Antheraea pernyi* silk fibron/chitosan blend film
Marszalek J, Szosland L, Mucha M// Tech Univ Lodz, Fac Process & Environ Engn, Wolcznska 213-215, PL-90924 Lodz, Poland
Mol Cryst Liq Cryst 2000 **354** 1015
- Immiscible polymer blends containing dibutylchitin as environmentally friendly materials
Ohkawa K, Takahashi Y, Yamada M, Yamamoto H// *Shinshu Univ, Fac Text Sci & Technol, Inst High Polymer Res, Ueda, Nagano 386 8567, Japan
Macromol Mater Eng 2001 **286** (3) 168
- Polyion complex fiber and capsule formed by self-assembly of chitosan and poly(α,L -glutamic acid) at solution interfaces
Park IK, Park YH// Seoul Natl Univ, Dept Nat Fiber Sci, Suwon 441744, South Korea
J Appl Polym Sci 2001 **80** (13) 2624
- Preparation and structural characterization of water-soluble *O*-hydroxypropyl chitin derivatives
Park SY, Lee BI*, Jung ST, Park HJ// *Clemson Univ, Dept Mat Sci & Engrn, Olin Hall, Clemson, SC 29634, USA
Mater Res Bull 2001 **36** (3-4) 511
- Biopolymer composite films based on κ -carrageenan and chitosan
Peniche C, Arguelles-Monal W// Univ Havana, Ctr Biomat, CU-10400 Havana, Cuba
Macromol Symposia 2001 **168** 103
- Chitosan based polyelectrolyte complexes
Qu X, Wirsén A, Olander B, Albertsson AC// Columbia Univ, Dept Med, Div Cardiol, 630 West 168th St, New York, NY 10032, USA
Polym Bull 2001 **46** (2-3) 223
- Surface modification of high density polyethylene tubes by coating chitosan, chitosan hydrogel and heparin
Ruiz M, Sastre AM, Zikan MC, Guibal E// *Ecole Mines Ales, Lab Genie Environn Ind, 6 Ave Clavières, FR-30319 Ales, France
J Appl Polym Sci 2001 **81** (1) 153
- Palladium sorption on glutaraldehyde-crosslinked chitosan in fixed-bed systems
Sashiwa H, Fujishima S, Yamano N, Kawasaki N, Nakayama A, Muraki E, Aiba S// *AIST Kansai, Natl Inst Adv Ind Sci & Technol, Special Div Human Life Technol, 1-8-31 Midorigaoka, Ikeda, Osaka 563 8577, Japan
Chem Lett 2001 (4) 308
- Production of *N*-acetyl-D-glucosamine from β -chitin by enzymatic hydrolysis
Sashiwa H, Shigemasa Y, Roy R// *Univ Ottawa, Dept Chem, Ottawa, Ontario, Canada K1N 6N5
Macromolecules 2001 **34** (10) 3211
- Highly convergent synthesis of dendrimerized chitosan-sialic acid hybrid
Shin Y, Yoo DI, Jang JJ// Chonnam Natl Univ, Dept Clothing & Text, Kwangju 500757, South Korea
J Appl Polym Sci 2001 **80** (13) 2495
- Molecular weight effect on antimicrobial activity of chitosan treated cotton fabrics
Soane RJ, Hinchcliffe M, Davis SS, Illum L// *Univ Nottingham, Sch Pharmaceut Sci, Univ Pk, Nottingham NG7 2RD, England
Int J Pharm 2001 **217** (1-2) 183
- Clearance characteristics of chitosan based formulations in the sheep nasal cavity
Song JS, Suh CH, Park YB, Lee SH, Yoo NC, Lee JD, Kim KH, Lee SK// *Yonsei Univ, Coll Med, Dept Internal Med, 134 Shinchon-dong, Seodaemun-ku, Seoul 120752, South Korea
Eur J Nucl Med 2001 **28** (4) 489
- A phase I/IIa study on intra-articular injection of holmium-166-chitosan complex for the treatment of knee synovitis of rheumatoid arthritis
Tachabooniyakiat W, Serizawa T, Akashi M// *Kagoshima Univ, Fac Engn, Dept Chem Engn & Appl Chem, 1-21-40 Korimoto, Kagoshima 890 0065, Japan
Polym J 2001 **33** (2) 177
- Hydroxyapatite formation on/in biodegradable chitosan hydrogels by an alternate soaking process
Tan W, Krishnaraj R, Desai TA// *Univ Illinois, Dept Bioengn, 851 Sth Morgan St, Chicago, IL 60607, USA
Tissue Eng 2001 **7** (2) 203
- Evaluation of nanostructured composite-chitosan matrices for tissue engineering
Varum KM, Ottoy MH, Smidsrød O// Univ Sci & Technol, Dept Biotechnol, Norwegian Biopolym Lab - NOBIPOL, NO-7491 Trondheim, Norway
- Carbohydr Polym* 2001 **46** (1) 89
- Acid hydrolysis of chitosans
Wang HT, Fang YE*, Yan YS// *Univ Sci & Technol China, Dept Appl Chem, CN-230026 Anhua, Peoples Rep China
J Mater Chem 2001 **11** (5) 1374
- Surface modification of chitosan membranes by alkane vapor plasma
Yen MS// Kung Shan Institute Technol, Dept Fiber Engn, Tainan 71016, Taiwan
J Appl Polym Sci 2001 **80** (14) 2859
- Application of chitosan/nonionic surfactant mixture in reactive dyes for dyeing wool fabrics
Zhang H, Neau SH// *Univ Missouri, Sch Pharm, Div Pharmaceut Sci, 5100 Rockhill Rd, Kansas City, Mo 64110, USA
Biomaterials 2001 **22** (12) 1653
- In vitro degradation of chitosan by a commercial enzyme preparation: Effect of molecular weight and degree of deacetylation
Zhang Y, Zhang MQ// *Univ Washington, Dept Mat Sci & Engrn, 302 Roberts Hall, Seattle, Wa 98195, USA
J Non-Cryst Solids 2001 **282** (2-3) 159
- Microstructural and mechanical characterization of chitosan scaffolds reinforced by calcium phosphates
Zheng H, Du YM*, Yu JH, Huang RH, Zhang L// *Wuhan Univ, Dept Environn Sci, CN-430072 Wuhan, Peoples Rep China
J Appl Polym Sci 2001 **80** (13) 2558
- Preparation and characterization of chitosan/poly(vinyl alcohol) blend fibers

5. Cyclodextrins

- Bernhardt S, Glockner P, Ritter H// *Univ Mainz, Inst Organ Chem, Duesberg Weg 10-14, DE-55128 Mainz, Germany
Polym Bull 2001 **46** (2-3) 153
- Cyclodextrins in polymer synthesis: Influence of methylated β -cyclodextrin as host on the free radical copolymerization reactivity ratios of hydrophobic acrylates as guest monomers in aqueous medium
Brécourt H, Caron L, Bormann D, Monflier E// *Univ Artois, Fac Sci Jean Perrin, Lab Physicochim Interfaces & Applcat, rue Jean Souvraz, FR-62307 Lens, France
Catal Today 2001 **66** (2-4) 355
- Substrate-selective catalysis in an aqueous biphasic system with per(2,6-di-*O*-methyl)- β -cyclodextrin
Doliwa A, Santoyo S*, Ygartua P// *Univ Navarra, Fac Farm, Dept Farm & Tecno Farmaceut, Ctr Galen, ES-31080 Pamplona, Spain
Skin Pharmacol 2001 **14** (2) 97
- Influence of piroxicam:hydroxypropyl- β -cyclodextrin complexation on the *in vitro* permeation and skin retention of piroxicam
Goyenechea N, Sanchez M*, Velaz I, Martin C, Martinez-Oharriz MC, Gonzalez-Gaitano G// *Univ Navarra, Fac Ciencias, Dept Quim, Secc Quim Fis, ES-31080 Pamplona, Spain
Luminescence 2001 **16** (2) 117
- Inclusion complexes of nabumetone with β -cyclodextrins: Thermodynamics and molecular modelling studies. Influence of sodium perchlorate
Huh KM, Ooya T, Sasaki S, Yui N// *Japan Adv Inst Sci & Technol, Sch Mat Sci, 1-1 Asahidai, Tatsunokuchi, Ishikawa 923 129, Japan
Macromolecules 2001 **34** (8) 2402
- Polymer inclusion complex consisting of poly(ϵ -lysine) and α -cyclodextrin
Kopecký F, Kopecká B, Kaclík P// Comenius Univ, Fac Pharm, Odbojarov 10, SK-83232 Bratislava, Slovakia
J Inclusion Phenom Macrocycl Chem 2001 **39** (3-4) 215
- Solubility study of nimodipine inclusion complexation with α - and β -cyclodextrin and some substituted cyclodextrins
Lee WS, Ueno A// *Tokyo Inst Technol, Grad Sch Biosci & Biotechnol, Dept Bioengn, Midori ku, 4259 Nagatsuta cho, Yokohama, Kanagawa 226 850, Japan
Macromol Rapid Commun 2001 **22** (6) 448
- Photocontrol of the catalytic activity of a β -cyclodextrin bearing azobenzene and histidine moieties as a pendant group
Lu J, Mirau PA, Tonelli AE// *Nth Carolina State Univ, Fiber & Polymer Sci Program, Raleigh, NC 27695, USA
Macromolecules 2001 **34** (10) 3276
- Dynamics of isolated polycaprolactone chains in their inclusion complexes with cyclodextrins
Moser JC, Rose I, Wagner B, Wieneke T, Vervoorts A// Univ Dusseldorf, Inst Laser Med, Universitatsstr 1, D-40225 Dusseldorf, Germany
J Inclusion Phenom Macrocycl Chem 2001 **39** (1-2) 13
- Taxol inclusion complexes with a cyclodextrin dimer: Possibilities to detoxify chemotherapeutics and to target drugs specifically to tumors?
Mura P, Bettinetti GP, Fauci MT, Sorrenti M, Negri A// Univ Florence, Dip

- Sci Farmaceut, via G Capponi 9, IT-50121 Florence, Italy
Supramol Chem 2001 **12** (4) 379
- Interaction of naproxen with crystalline and amorphous methylated β -cyclodextrin in the liquid and solid state
 Mura P, Faucci MT, Manderoli A, Bramanti G// Address as above.
J Inclusion Phenom Macrocycl Chem 2001 **39** (1-2) 131
- Multicomponent systems of econazole with hydroxyacids and cyclodextrins
 Partyka M, Au BH, Evans CH*// *Ryerson Polytech Inst, Dept Chem Biol & Chem Engn, 350 Victoria St, Toronto, Ontario, Canada M5B 2K3
J Photochem Photobiol A 2001 **140** (1) 67
- Cyclodextrins as phototoxicity inhibitors in drug formulations: Studies on model systems involving naproxen and β -cyclodextrin
 Pumera M, Jelinek I, Jindrich J// Charles Univ, Dept Analyt Chem, Fac Sci, Albertov 2030, CZ-12843 Prague 2, Czech Republic
Fresenius J Anal Chem 2001 **369** (7-8) 666
- Determination of cyclodextrins and their derivatives by capillary electrophoresis with indirect UV and conductivity detection
 Quaglia F, Varriechio G, Miro A, La Rotonda MI*, Larobina D, Mensitieri G// *Univ Naples Federico II, Dept Pharmaceut & Toxicol Chem, via D Montesano 49, IT-80131 Naples, Italy
J Controlled Release 2001 **71** (3) 329
- Modulation of drug release from hydrogels by using cyclodextrins: The case of nicardipine/ β -cyclodextrin system in crosslinked polyethyleneglycol
 Ravoo BJ, Darcy R*, Mazzaglia A, Nolan D, Gaffney K// *Natl Univ Ireland, Univ Coll Dublin, Dept Chem, Dublin 4, Rep Ireland
Chem Commun 2001 (9) 827
- Supramolecular tapes formed by a catanionic cyclodextrin in water
 Russell WK, Russell DH, Busby MB, Kolberg A, Li S, Maynard DK, Sanchez-Vindas S, Zhu W, Vigh G*// *Texas A&M Univ, Dept Chem, College Station, Tx 77842, USA
J Chromatogr A 2001 **914** (1-2) 325
- Artifact-free matrix-assisted laser desorption ionization time-of-flight mass spectra of *tert*-butyldimethylsilyl ether derivatives of cyclodextrins used for the synthesis of single-isomer, chiral resolving agents for capillary electrophoresis
 Storsberg J, Glockner P, Eigner M, Schnoller U, Ritter H*, Voit B, Nuyken O// *Univ Mainz, Inst Organ Chem, Duesbergweg 10-14, DE-55099 Mainz, Germany
Des Monomers Polym 2001 **4** (1) 9
- Cyclodextrins in polymer synthesis: Photocrosslinkable films via free radical copolymerization of methylated β -cyclodextrin-complexed styrene with sodium 4-(acrylamido)-phenyldiazosulfonate in aqueous medium
 Takeuchi T, Kitamaki Y, Miwa T// Gifu Univ, Fac Engn, Dept Chem, 1-1 Yanagido, Gifu 501 1193, Japan
J Microcolumn Sep 2001 **13** (1) 19
- Fluorimetric detection of cyclodextrins via complexation with fluorescence probe in microcolumn liquid chromatography
 Tamura M, Gao D, Ueno A*// *Tokyo Inst Technol, Dept Bioengn, Grad Sch Biosci & Biotechnol, Midori ku, 4259 Nagatsuta, Yokohama, Kanagawa 226 850, Japan
Chem-Eur J 2001 **7** (7) 1390
- A polyrotaxane series containing α -cyclodextrin and naphthalene-modified α -cyclodextrin as a light-harvesting antenna system
 Trotta F, Ferruti P, Ranucci E, Veglia M, Baggiani C, Giovannoli C// Univ Turin, Dipi Chim Inorgan Chim Fis & Chim Mat, via Pietro Giuria 7, IT-10125 Turin, Italy
J Inclusion Phenom Macrocycl Chem 2001 **39** (1-2) 139
- Polycarboxylated derivatives of β -cyclodextrin
 Vandelli MA, Sergi S, Ruozzi B, Forni F// Univ Modena & Reggio Emilia, Dept Pharmaceut Sci, via G Campi 183, IT-41100 Modena, Italy
STP Pharma Sciences 2001 **11** (2) 157
- Preformulative and formulative studies on inclusion complexes between cyclodextrins and ursodeoxycholic acid
 Wang W, Pearce AJ, Zhang YM, Sinay P*// *Ecole Normale Super, CNRS, Dept Chim, 24 rue Lhomond, FR-75231 Paris 05, France
Tetrahedron-Asymmetry 2001 **12** (3) 517
- Diisobutylaluminium-promoted regioselective de-*O*-methylation of cyclodextrins: An expeditious entry to selectively modified cyclodextrins
 Zhu WH, Vigh G*// *Texas A&M Univ, Dept Chem, MS 3255, College Station, Tx 77842, USA
Electrophoresis 2001 **22** (7) 1394
- Separation selectivity patterns in the capillary electrophoretic separation of anionic enantiomers by octakis-6-sulfato- γ -cyclodextrin
 Balakshin M, Capanema E, Chen CL*, Gratzl J, Kirkman A, Gracz H// *Nth Carolina State Univ, Dept Wood & Paper Sci, Raleigh, NC 27695, USA
J Mol Catal B-Enzym 2001 **13** (1-3) 1
- Biobleaching of pulp with dioxygen in the laccase-mediator system: Reaction mechanisms for degradation of residual lignin
 Gundersen SA, Ese MH, Sjøblom J// Univ Bergen, Dept Chem, Allegaten 41, NO-5007 Bergen, Norway
Colloid Surface A 2001 **182** (1-3) 199
- Langmuir surface and interface films of lignosulfonates and Kraft lignins in the presence of electrolyte and asphaltenes: Correlation to emulsion stability
 Rozman HD, Tan KW, Kumar RN, Abubakar A// Univ Sains Malaysia, Sch Ind Technol, Georgetown, Malaysia
Polym Int 2001 **50** (5) 561
- The effect of hexamethylene diisocyanate modified ALCELL lignin as a coupling agent on the flexural properties of oil palm empty fruit bunch: Polypropylene composites
 Sun RC, Lu Q, Sun XF// Univ Wales, Biocomposites Ctr, Bangor, Wales
Polym Degrad Stabil 2001 **72** (2) 229
- Physico-chemical and thermal characterization of lignins from *Caligonom monogolicum* and *Tamarix* spp.
 Xiang Q, Lee YY*// *Auburn Univ, Dept Chem Engn, Auburn, AL 36849, USA
Appl Biochem Biotechnol 2001 **91-3** 71
- Production of oxychemicals from precipitated hardwood lignin

7. Lipopolysaccharides

- Katzenellenbogen E, Kochanova NA, Zatonsky GV, Kubler-Kielb J, Gamian A, Shashkov AS, Knirel YA, Romanowska E*// *Ludwik Hirszfeld Inst Immunol & Expt Therapy, Wroclaw, Poland
FEMS Immunol Med Microbiol 2001 **30** (3) 223
- Structural and serological studies on *Hafnia alvei* O-specific polysaccharide of α -D-mannan type isolated from the lipopolysaccharide of strain PCM 1223
 Ludwiczak P, Brando T, Monserrat N, Puzo G// *CNRS UMR 5089, Inst Pharmacol & Biol Struct, 205 Route Narbonne, FR-31077 Toulouse, France
Anal Chem 2001 **73** (10) 2323
- Structural characterization of *Mycobacterium tuberculosis* lipoarabinomannans by the combination of capillary electrophoresis and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry
 MacLean LL, Vinogradov E, Crump EM, Perry MB*, Kay WW// *Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr, Ottawa, Ontario, Canada K1A 0R6
Eur J Biochem 2001 **268** (9) 2710
- The structure of the lipopolysaccharide O-antigen produced by *Flavobacterium psychrophilum* (259-93)
 Matsuo K, Isogai E, Araki O*// *Hokkaido Univ, Grad Sch Environ Earth Sci Lab, Environ Mol Biol, Sapporo, Hokkaido 060 081, Japan
Microbiol Immunol 2001 **45** (4) 299
- Structural characterization of the O-antigenic polysaccharide chain of *Porphyromonas circumdentaria* NCTC 12469

8. Pectin

- Kapoor M, Beg QK, Bhushan B, Singh K, Dadhich KS, Hoondal GS*// *Punjab Univ, Dept Microbiol, IN-160014 Chandigarh, India
Process Biochem 2001 **36** (8-9) 803
- Application of an alkaline and thermostable polygalacturonase from *Bacillus* sp. MG-cp-2 in degumming of ramie (*Boehmeria nivea*) and sunn hemp (*Crotalaria juncea*) bast fibres
 Majdoub H, Roudesli S, Picton L, Le Cerf D, Muller G*, Grisel M// *Univ Rouen, UMR 6522 CNRS, Lab Polym, Biopolym & Membranes, FR-76821 Mont St Aignan, France
Carbohydr Polym 2001 **46** (1) 69
- Prickly pear nopal pectin from *Opuntia ficus-indica* physico-chemical study in dilute and semi-dilute solutions
 Nielsen H, Marr BU, Hvidt S*// *Roskilde Univ, Dept Chem, DK-4000 Roskilde, Denmark
Carbohydr Polym 2001 **45** (4) 395
- Correlation between sagging and shear elasticity in pectin, gelatin and polyacrylamide gels
 Round AN, Rigby NM, MacDougall AJ, Ring SG, Morris VJ// Univ Bristol, HH Wills Phys Lab, Tyndall Ave, Bristol BS8 1TL, England
Carbohydr Res 2001 **331** (3) 337
- Investigating the nature of branching in pectin by atomic force microscopy and carbohydrate analysis
 Schmelter T, Vreeker R, Klaffke W*// *Unilever Res, PO Box 114, NL-3130 AC Vlaardingen, The Netherlands
Carbohydr Polym 2001 **45** (3) 277

6. Lignin

- Balakshin M, Capanema E, Chen CL*, Gratzl J, Kirkman A, Gracz H// *Nth

Characterisation of a novel gel system containing pectin, heat inactivated pectin methylesterase and NaCl
 Vidal S, Williams P*, O'Neill MA, Pellerin P// *INRA-Inst Prod Vigne, Unit Rech Biopolym & Aromes, 2 Pl Viala, FR-34060 Montpellier, France
Carbohydr Polym 2001 **45** (4) 315
 Polysaccharides from grape berry cell walls. Part I. Tissue distribution and structural characterization of the pectic polysaccharides

9. Starch

Angles MN, Dufresne A*// *Univ Grenoble 1, CNRS, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble 9, France
Macromolecules 2001 **34** (9) 2921
 Plasticized starch/tunicin whiskers nanocomposite materials. II. Mechanical behavior
 Averous L, Fringant C, Moro L// CERME/ESTEC, BP 1029, FR-51686 Reims 2, France
Polymer 2001 **42** (15) 6565
 Plasticized starch-cellulose interactions in polysaccharide composites
 Becker A, Hill SE*, Mitchell JR// *Univ Nottingham, Sch Biol Sci, Div Food Sci, Loughborough LE12 5RD, England
Starch 2001 **53** (3-4) 121
 Relevance of amylose-lipid complexes to the behaviour of thermally processed starches
 Biresaw G, Carriere CJ// USDA/ARS, Natl Ctr Agr Utilizat Res, Biomat Proc Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Polym Sci B Polym Phys 2001 **39** (9) 920
 Correlation between mechanical adhesion and interfacial properties of starch/biodegradable polyester blends
 Blennow A, Bay-Smidt AM, Bauer R// Royal Vet & Agr Univ, Dept Plant Biol, Ctr Mol Plant Physiol, Plant Biochem Lab, DK-1871 Frederiksberg C, Copenhagen, Denmark
Int J Biol Macromol 2001 **28** (5) 409
 Amylopectin aggregation as a function of starch phosphate content studied by size exclusion chromatography and on-line refractive index and light scattering
 Conde-Petit B, Nuessli J, Arrigoni E, Escher F, Amado R// ETH Zurich, Food Chem & Technol Lab, Inst Food Sci, CH-8092 Zurich, Switzerland
Chimia 2001 **55** (3) 201
 Perspectives of starch in food science
 Delval F, Crini G*, Janus L, Vebrel J, Morcellet M// *Univ Franche Comte, Ctr Spectrometrie, 16 Route Gray, FR-25030 Besancon, France
Macromol Symposia 2001 **166** (Mar) 103
 Novel crosslinked gels with starch derivatives. Polymer-water interactions. Applications in waste water treatment
 Fang Q, Hanna MA*// *Univ Nebraska, Ind Agr Prod Ctr, Lincoln, NE 68583, USA
Ind Crops Products 2001 **13** (3) 219
 Characteristics of biodegradable Mater-Bi®-starch based foams as affected by ingredient formulations
 Fanta GF, Felker FC, Shogren RL, Knutson CA// USDA, Nat Ctr Agric Utilizat Res, Plant Polym Res, 1815 Nth Univ St, Peoria, IL 61604, USA
Carbohydr Polym 2001 **46** (1) 29
 Starch-paraffin wax compositions prepared by steam jet cooking. Examination of starch adsorbed at the paraffin-water interface
 Fontana JD, Passos M, Baron M, Mendes, SV, Ramos LP// Univ Fed Parana, Dept Biochem Biol Sci Sector, LQBB, Biomass Chemobiotechnol Lab, POB 19046, Curitiba, Parana, Brazil
Appl Biochem Biotechnol 2001 **91-3** 469
 Cassava starch maltodextrinization/monomerization through thermopressurized aqueous phosphoric acid hydrolysis
 Glenn GM, Orts WJ// USDA/ARS, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA
Ind Crops Products 2001 **13** (2) 135
 Properties of starch-based foam formed by compression/explosion processing
 Janouskova J, Budinska M, Plockova J, Chmelik J*// *Acad Sci Czech Republ, Inst Analyt Chem, Veveri 97, CZ-61142 Brno, Czech Republic
J Chromatogr A 2001 **914** (1-2) 183
 Optimization of experimental conditions for the separation of small and large starch granules by gravitation field-flow fractionation
 Karaoglu MM, Kotancilar HG, Celik I// Ataturk Univ, Fac Agr, Dept Food Engn, POB 25240, TR-25240 Erzurum, Turkey
Starch 2001 **53** (3-4) 162
 Effects of utilization of modified starches on the cake quality
 Kim YJ, Suzuki T, Hagiwara T, Yamaji I, Takai R// Tokyo Univ Fisheries, Dept Food Sci & Technol, 4-5-7 Konan, Minato-ku, Tokyo 108, Japan
Carbohydr Polym 2001 **46** (1) 1

Enthalpy relaxation and glass to rubber transition of amorphous potato starch formed by ball-milling
 Liu ZQ, Yi XS, Feng Y// Zhejiang Univ, Dept Polymer Sci & Engn, CN-310027 Hangzhou, Peoples Rep China
J Mater Sci 2001 **36** (7) 1809
 Effects of glycerin and glycerol monostearate on performance of thermoplastic starch
 Maaurif AG, Che-Man YB, Asbu BA, Junainah AH, Kennedy JF*// *Univ Birmingham, Sch Chem, Carbohydr & Protein Technol Grp, Res Park, Birmingham B15 2SQ, England
Carbohydr Polym 2001 **45** (4) 335
 Gelatinisation of sago starch in the presence of sucrose and sodium chloride as assessed by differential scanning calorimetry
 Merta J, Torkkeli M, Ikonen T, Serimaa R, Stenius P// Helsinki Univ Technol, Dept Forest Prod Technol, Lab Forest Prod Chem, POB 6300, FI-02015 Espoo, Finland
Macromolecules 2001 **34** (9) 2937
 Structure of cationic starch (CS)/anionic surfactant complexes studied by small-angle X-ray scattering (SAXS)
 Mwasaru MA, Muhammad K// Jomo Kenyatta Univ Agr & Technol, Dept Food Sci & Postharvest Technol, POB 62000, Nairobi, Kenya
Starch 2001 **53** (3-4) 155
 Effect of surfactant HLB on some gel properties of pigeonpea and cowpea starches
 Nabeshima EH, Grossman MVE*// *Univ Estadual Londrina, Dept Tecnl Alimentos, CP 600, BR-186051-970 Londrina, PR, London
Carbohydr Polym 2001 **45** (4) 347
 Functional properties of pregelatinized and cross-linked cassava starch obtained by extrusion with sodium trimetaphosphate
 Richardson S, Cohen A, Gorton L// Lund Univ, Dept Analyt Chem, POB 124, SE-22100 Lund, Sweden
J Chromatogr A 2001 **917** (1-2) 111
 High-performance anion-exchange chromatography/electrospray mass spectrometry for investigation of the substituent distribution of hydroxypropylated potato amylopectin starch
 Roger P, Baud B, Colonna P*// *INRA, rue Geraudiere, BP 71627, FR-44316 Nantes 03, France
J Chromatogr A 2001 **917** (1-2) 179
 Characterization of starch polysaccharides by flow field-flow fractionation-multi-angle laser light scattering-differential refractometer index
 Santisopasri V, Kurojanawong K, Chotineeranat S, Piyachomkwan K, Sriroth K*, Oates CG// *Kasetsart Univ, Fac Agroind, Dept Biotechnol, Bangkok, Thailand
Ind Crops Products 2001 **13** (2) 115
 Impact of water stress on yield and quality of cassava starch
 Seguchi M, Hosomi K, Yamauchi H, Yasui T, Imai T// Kobe Women's Univ, Fac Home Econ, Lab Food Technol, Suma ku, Kobe, Hyogo 654 8585, Japan
Starch 2001 **53** (3-4) 140
 Development of the waxy wheat starch granule in the endosperm, and the difference of internal structure between wheat waxy starch and other waxy cereal starches
 Stading M, Rindlav-Westling A, Gatenholm P// Chalmers Univ Technol, SIK-Swedish Inst Food & Biotechnol, PO Box 5401, SE-40229 Goteborg, Sweden
Carbohydr Polym 2001 **45** (3) 209
 Humidity-induced structural transitions in amylose and amylopectin films
 Tang HR, Brun A, Hill B*// *Inst Food Res, Norwich Res Park, Colney, Norwich NR4 7UA, England
Carbohydr Polym 2001 **46** (1) 7
 A proton NMR relaxation study of the gelatinisation and acid hydrolysis of native potato starch
 Tijssen CJ, Kolk HJ, Stamhuis EJ, Beenackers AACM*// *Univ Groningen, Dept Chem Engn, Nijenborgh 4, NL-9747 Groningen, AG, The Netherlands
Carbohydr Polym 2001 **45** (3) 219
 An experimental study on the carboxymethylation of granular potato starch in non-aqueous media
 Uchino T, Tozuka Y, Oguchi T, Yamamoto K*// *Chiba Univ, Fac Pharmaceut Sci, Inage ku, 1-33 Yayoi cho, Chiba 263 8522, Japan
J Inclusion Phenom Macrocycl Chem 2001 **39** (1-2) 145
 The change of the structure of amylose during the inclusion of 2-naphthol in sealed-heating process
 Yilmaz G, Jongboom ROJ, Feil H, Hennink WE// ATO, Agrotechnol Res Inst, PO Box 17, NL-6700 AA Wageningen, The Netherlands
Carbohydr Polym 2001 **45** (4) 403
 Encapsulation of sunflower oil in starch matrices via extrusion: Effect of the interfacial properties and processing conditions on the formulation of dispersed phase morphologies

10. Starch-degrading enzymes

Goncalves LRB, Suzuki GS, Giordano RC, Giordano RLC// Univ Fed Ceara, Dept Engn Quim, Campus Pici, Bloco 710, Sala 32, BR-60455-760 Fortaleza, Ceara, Brazil

Appl Biochem Biotechnol 2001 **91**(3) 691

Kinetic and mass transfer parameters of maltotriose hydrolysis catalyzed by glucomylase immobilized on macroporous silica and wrapped in pectin gel

Guraya HS, James C, Champagne ET// USDA/ARS, Sthn Reg Res Ctr, POB 19687, New Orleans, La 70179, USA

Starch 2001 **53** (3-4) 131

Effect of enzyme concentration and storage temperature on the formation of slowly digestible starch from cooked debranched rice starch

Lo HF, Lin LL, Chen HL, Hsu WH, Chang CT*// *Providence Univ, Dept Food & Nutrit, Shalu, Taichung 433-01, Taiwan

Process Biochem 2001 **36** (8-9) 743

Enzymic properties of a SDS-resistant *Bacillus* sp. TS-23 α -amylase produced by recombinant *Escherichia coli*

Martins RF, Davids W, Abu Al Soud W, Levander F, Radstrom P, Hatti-Kaul R// Lund Univ, Ctr Chem & Chem Engn, Dept Biotechnol, POB 124, SE-22100 Lund, Sweden

Extremophiles 2001 **5** (2) 135

Starch-hydrolyzing bacteria from Ethiopian soda lakes

Mischnick P// Tech Univ Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, DE-38106 Braunschweig, Germany

Starch 2001 **53** (3-4) 110

Specificity of microbial α -amylase and amyloglucosidase hydrolysis of methyl amyloses

Nilsson GS, Richardson S*, Huber A, Torto N, Laurell T, Gorton L// *Univ Lund, Dept Anal Chem, PO Box 124, SE-22100 Lund, Sweden

Carbohydr Polym 2001 **46** (1) 59

Microdialysis clean-up and sampling in enzyme-based methods for the characterisation of starch

Roy S, Gudi RD*, Venkatesh KV, Shah SS// Indian Inst Technol, Dept Chem Engn, IN-400 076 Mumbai, India

Process Biochem 2001 **36** (8-9) 713

Optimal control strategies for simultaneous saccharification and fermentation of starch

11. Polysaccharides - Microbial

Akiyoshi K, Kobayashi S, Sunamoto J// Kyoto Univ, Grad Sch Engn, Sakyo ku, Yosida Hommachi, Kyoto 606 8501, Japan

Kobunshi Ronbunshu 2001 **58** (4) 209

Interaction between proteins and self-assembled nanoparticles of hydrophobic pullulan with insulin-host-guest interaction in macromolecules

Bot A, Smorenburg HE, Vreeker R, Paques M, Clark AH// Unilever Res, Olivier van Noortlaan 120, NL-3133 AT Vlaardingen, The Netherlands

Carbohydr Polym 2001 **45** (4) 363

Melting behaviour of schizophyllan extracellular polysaccharide gels in the temperature range between 5 and 20°C

De Groot CJ, Van Luyn MJA, Van Dijk-Wolthuis WNE, Cadee JA, Plantinga JA, Den Otter W, Hennink WE// Univ Utrecht, Fac Vet Med, Dept Cell Biol & Histol, POB 80 176, NL-3508 TD Utrecht, The Netherlands

Biomaterials 2001 **22** (11) 1197

In vitro biocompatibility of biodegradable dextran-based hydrogels tested with human fibroblasts

De Jong SJ, Van Eerdenbrugh B, Van Nostrum CF, Kettenes-van de Bosch JJ, Hennink WE*// *Univ Utrecht, Utrecht Inst Pharmaceut Sci, Dept Pharmaceut, POB 80-082, NL-3508 TB Utrecht, The Netherlands

J Controlled Release 2001 **71** (3) 261

Physically crosslinked dextran hydrogels by stereocomplex formation of lactic acid oligomers: Degradation and protein release behavior

Lee JH, Kim JH, Zhu IH, Zhan XB, Lee JW, Shin DH, Kim SK*// *Pukyung Natl Univ, Div Food & Biotechnol, Pusan 608737, South Korea

Biotechnol Lett 2001 **23** (10) 817

Optimization of conditions for the production of pullulan and high molecular weight pullulan by *Aureobasidium pullulans*

Lee KB, Bae JH, Kim JS, Yoo YC, Kim BS, Kwak ST, Kim YS// Konyang Univ, Coll Med, Dept Biochem, Nonsan 320711, Chungnam, South Korea

Arch Pharm Research 2001 **24** (2) 109

Anticoagulant activity of sulfoalkyl derivatives of curdlan

Maeda H, Rambone G, Covilleto T*, Yuguchi Y, Urakawa H, Alhaique F, Kajiwara K// *Kyoto Inst Technol, Fac Engn & Design, Sakyo ku, Matsugasaki, Kyoto 606 8585, Japan

Int J Biol Macromol 2001 **28** (5) 351

Low-degree oxidized scleroglucan and its hydrogel

Miyamoto K, Asakawa Y, Arai Y, Shimizu T, Tokita M, Komai T// Mie University, Fac Engn, Dept Chem Mat, 1515 Kamihamachou, Tsu, Mie 514 5807, Japan

Int J Biol Macromol 2001 **28** (5) 381

Preparation of gellan sulfate as an artificial ligand for removal of extra domain A containing fibronectin

Nakamura K, Shinoda E, Tokita M// Rakuno Gakuen Univ, Fac Dairy Sci, Dept Food Sci, Ebetsu, Hokkaido 069 8501, Japan

Food Hydrocolloid 2001 **15** (3) 247

The influence of compression velocity on strength and structure for gellan gels

Shingel KI, Petrov PT// Belmedpreparaty Pharmaceut Co, Sci & Pharmaceut Ctr, ul Fabritiusa 30, BY-220001 Minsk, Belarus

Polym Sci Ser B 2001 **43** (3-4) 81

Hydrodynamic and molecular characteristics of gamma-irradiated pullulan

Sims IM, Thomson A, Hubl U, Larsen NG, Furneaux RH// Ind Res Ltd, PO Box 31-310, Lower Hutt, New Zealand

Carbohydr Polym 2001 **45** (3) 285

Characterisation of polysaccharides synthesised by *Gluconobacter oxydans* NCIMB 4943

Smith-Palmer T, Pelton R*// *McMaster Univ, Dept Chem Engn, McMaster Ctr Pulp & Paper Res, Hamilton, Ontario, Canada L8S 4L7

Colloid Surface A 2001 **181** (1-3) 171

Competitive interactions of dextran sulfate with positively charged particles and polymers

Triveni R, Shamala TR*, Rastogi NK// Ctr Food Technol Res Inst, Dept Food Microb, IN-570 013 Mysore, India

Process Biochem 2001 **36** (8-9) 787

Optimised production and utilisation of exopolysaccharide from *Agrobacterium radiobacter*

Uzochukwu S, Balogh E, Loefler RT, Ngoddy PO// Univ Agric, Dept Food Sci & Technol, Abeokuta, Nigeria

Food Chem 2001 **73** (2) 225

Structural analysis by ^{13}C -nuclear magnetic resonance spectroscopy of glucans elaborated by gum-producing bacteria isolated from palm wine

Zhang LN, Zhang M, Chen JH, Zeng FB// Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

Chin J Polym Sci 2001 **19** (3) 283

Solution properties of antitumor carboxymethylated derivatives of α -(1 \rightarrow 3)-D-glucan from *Ganoderma lucidum*

12. Polysaccharides - Plant

Balgude AP, Yu X, Szymanski A, Bellamkonda RV*// *Case Western Reserve Univ, Dept Biomed Engn, Biomat Cell & Tissue Engn Lab, 10900 Euclid Ave, Cleveland, Oh 44106, USA

Biomaterials 2001 **22** (10) 1077

Agarose gel stiffness determines rate of DRG neurite extension in 3D cultures

Bernkop-Schnurch A, Kast CE, Richter MF// Univ Vienna, Ctr Pharm, Inst Pharmaceut Technol & Biopharmaceut, Althanstr 14, AU-1090 Vienna, Austria

J Controlled Release 2001 **71** (3) 277

Improvement in the mucoadhesive properties of alginate by the covalent attachment of cysteine

Bilan MI, Usov AI*// *Russian Acad Sci, ND Zelinskii Organ Chem Inst, Leninskii pr 47, RU-117913 Moscow, Russia

Russ J Bioorg Chem 2001 **27** (1) 2

Polysaccharides of calcareous algae and their effect on the calcification process

Chandia NP, Matsuhiro B*, Vasquez AE// *Univ Santiago Chile, Dept Ciencias Quim, Casilla 40, Correo 33, Santiago, Chile

Carbohydr Polym 2001 **46** (1) 81

Alginic acids in *Lessonia trabeculata*: Characterization by formic acid hydrolysis and FT-IR spectroscopy

Cheng XS, Guan HM, Su YC// Fujian Normal Univ, Inst Polymer Sci, CN-350007 Fuzhou, Peoples Rep China

J Inorg Organomet Polym 2000 **10** (3) 115

Polymerization of vinyl acetate initiated by a copper alginate coordination polymer film/ $\text{Na}_2\text{SO}_3/\text{H}_2\text{O}$ system

Faranai de Souza D, Giatti Marques de Souza C, Peralta RM*// *Univ Estadual Maringa, Dept Bioquim, BR-87020-900 Maringa, PR, Brazil

Process Biochem 2001 **36** (8-9) 835

Effect of easily metabolizable sugars in the production of xylanase by *Aspergillus tamarii* in solid-state fermentation

Fessas D, Schiraldi A// Univ Milan, DISTAM, via Celoria 2, IT-20133 Milan, Italy

Thermochim Acta 2001 **370** (1-2) 83

State diagrams of arabinoxylan-water binaries

- Genc H, Ozdemir M, Demirbas A// *PK 216, TR-61035 Trabzon, Turkey
Food Chem 2001 **73** (2) 221
- Analysis of mixed-linked (1→3), (1→4)- β -D-glucans in cereal grains in Turkey
 George SP, Ahmad A, Rao MB// *Natl Chem Lab, Div Biochem Sci, IN-411008 Pune, India
Bioresource Technol 2001 **78** (3) 221
- A novel thermostable xylanase from *Thermomonospora* sp.: Influence of additives on thermostability
 Guenet JM, Dahmani M, Ramzi M, Rochas C// Inst Charles Sadron, CNRS UPR 022, 6 rue Boussingault, FR-67083 Strasbourg, France
Macromol Sympoia 2001 **166** (Mar) 139
- Ternary complexes in gels from agarose and from chemically-modified agarose
 Huleihel M, Ishanu V, Tal J, Arad S// Ben Gurion Univ Negev, Inst Appl Biosci, POB 653, IL-84105 Beer Sheva, Israel
J Appl Phycol 2001 **13** (2) 127
- Antiviral effect of red microalgal polysaccharides on *Herpes simplex* and *Variella zoster* viruses
 Kasapis S// Sultan Qaboos Univ, Coll Agric, Dept Food Sci & Nutrit, PO Box 34, OM-123 Al-Khod, Oman
Food Hydrocolloid 2001 **15** (3) 239
- The use of Arrhenius and WLF kinetics to rationalise the rubber-to-glass transition in high sugar/k-carrageenan systems
 Lahaye M// INRA URPOI, BP 71627, FR-44316 Nantes, France
J Appl Phycol 2001 **13** (2) 173
- Developments on gelling algal galactans, their structure and physico-chemistry
 Le Goff A, Renard CMGC, Bonnin E*, Thibault JF// *INRA, Unite Rech Polysaccharides Organisations Interact, BP 71627, FR-44316 Nantes 03, France
Carbohydr Polym 2001 **45** (4) 325
- Extraction, purification and chemical characterisation of xylogalacturonans from pea hulls
 Leong YK, Seah U, Chu S Y, Ong B C// James Cook Univ Nth Queensland, Sch Engn, Townsville, QLD 4811, Australia
Colloid Surface A 2001 **182** (1-3) 263
- Effects of gum arabic macromolecules on surface forces in oxide dispersions
 Majdoub H, Roudesli S, Deratani A// *Univ Montpellier 2, CC 047, 2 Pl E Bataillon, FR-34095 Montpellier 5, France
Polym Int 2001 **50** (5) 552
- Polysaccharides from prickly pear peel and nopal of *Opuntia ficus-indica*: extraction, characterization and polyelectrolyte behaviour
 Matsubara K, Matsuura Y, Bacic A, Liao ML, Hori K, Miyazawa K// Okayama Prefectural Univ, Fac Hlth & Welfare Sci, Dept Nutr Sci, 111 Kuboki, Soja, Okayama 719 1197, Japan
Int J Biol Macromol 2001 **28** (5) 395
- Anticoagulant properties of a sulfated galactan preparation from a marine green alga, *Codium cylindricum*
 Matsuhiro B// Univ Santiago, Fac Quim & Biol, Dept Ciencias Quim, Casilla 40, Correo 33, Santiago, Chile
Cah Biol Mar 2001 **42** (1-2) 159
- Organic derivatives of algal polysaccharides
 Oscarson S, Svahnberg P// Univ Stockholm, Arrhenius Lab, Dept Organ Chem, SE-10691 Stockholm, Sweden
J Chem Soc Perkins Trans I 2001 (8) 873
- Synthesis of uronic acid-containing xylans found in wood and pulp
 Polle AY, Ovodova RG*, Shashikov AS, Ovodnov YS// *Russian Acad Sci, Inst Physiol, Komi Sci Ctr, Urals Branch, ul Pervomaiskaya 50, RU-167982 Syktyvkar, Russia
Russ J Bioorg Chem 2001 **27** (1) 45
- Isolation and general characterization of polysaccharides from tansy *Tanacetum vulgare* L.
 Rocha HAO, Franco CRC, Trindade ES, Carvalho LCM, Veiga SS, Leite EL, Dietrich CP, Nader HB// *UNIFESP, EPM, Dept Bioquim, Rua 3 Malo, 4 Andar, BR-04044-020 Sao Paulo, Brazil
Braz J Med Biol Res 2001 **34** (5) 621
- A fucan from the brown seaweed *Spatoglossum schroederi* inhibits Chinese hamster ovary cell adhesion to several extracellular matrix proteins
 Saulnier L, Marot C, Elgorriaga M, Bonnin E, Thibault JF// INRA, Unite Rech Polysaccharides Organ & Interactions, BP 71627, FR-44316 Nantes 3, France
Carbohydr Polym 2001 **45** (3) 269
- Thermal and enzymatic treatments for the release of free ferulic acid from maize bran
 Song JW, Ghim HD, Choi JH, Ko SW, Lyoo WS// *Yeungnam Univ, Sch Text, Kyongsan 712749, South Korea
J Polym Sci A-Polym Chem 2001 **39** (10) 1810
- Preparation of antimicrobial sodium alginate with chito-oligosaccharide side chains
 Stabler C, Wilks K, Sambanis A, Constantinidis I// *Emory Univ, Fredrik Philips Magnet Resonance Res Ctr, Dept Radiol, 1364 Clifton Rd NE, Atlanta, GA 30322, USA
Biomaterials 2001 **22** (11) 1301
- The effects of alginate composition on encapsulated β TC3 cells
 Tabbi G, Fry SC, Bonomo RP// *Univ Catania, Dipt Sci Chim, Viale A Doria 6, IT-95125 Catania, Italy
J Inorg Biochem 2001 **84** (3-4) 179
- ESR study of the non-enzymic scission of xyloglucan by an ascorbate-H₂O₂-copper system: The involvement of the hydroxy radical and the degradation of ascorbate
 Van Walsum GP// Baylor Univ, Dept Environm Studies, POB 97266, Waco, TX 76798, USA
Appl Biochem Biotechnol 2001 **91-3** 317
- Severity function describing the hydrolysis of xylan using carbonic acid
 Wang Q, Wood PJ, Cui W, Ross-Murphy SB// AAFC, Food Res Program, 93 Stone Rd West, Guelph, Ontario, Canada N1G 5C9
Carbohydr Polym 2001 **45** (4) 355
- The effect of autoclaving on the dispersibility and stability of three neutral polysaccharides in dilute aqueous solutions
 Xie HF, Bolam DN, Nagy T, Szabo L, Cooper A, Simpson PJ, Lakey JH, Williamson MP*, Gilbert HJ// *Univ Sheffield, Dept Mol Biol & Biotechnol, Firth Court, Western Bank, Sheffield S10 2UH, England
Biochemistry 2001 **40** (19) 5700
- Role of hydrogen bonding in the interaction between a xylan binding module and xylan
- ### 13. Polysaccharides - Other
- Bagel' ova J, Gazova Z, Valusova E, Antalik M// Slovak Acad Sci, Inst Experiment Phys, Dept Biophys, Watsonova 47, SK-04353 Kosice, Slovakia
Carbohydr Polym 2001 **45** (3) 227
- Conformational stability of ferricytochrome c near the heme in its complex with heparin in alkaline pH
 Bootsma J, Wagenaars G, Dreef E, Hout F, Kellenbach E// *Organon Labs, Chem Dept, 22 rue H Goudier, BP 140 Riom, FR-63203 ZI de la Varenne, France
Magn Reson Chem 2001 **39** (5) 288
- Assignment of the ¹H and ¹³C NMR spectra, sequence and conformation of the synthetic pentasaccharide SanOrg34006 and its precursors
 Bystricky S, Alföldi J, Machova E, Steiner B, Soltes L// Slovak Acad Sci, Inst Chem, SK-84238 Bratislava, Slovakia
Chem-Pap Chem-Zvesti 2001 **55** (1) 49
- Nonbiodegradable hyaluronan derivative prepared by reaction with a water-soluble carbodiimide
 Chuang WL, Christ MD, Rabenstein DL// *Univ Calif, Dept Chem, Riverside, CA 92521, USA
Anal Biochem 2001 **73** (10) 2310
- Determination of the primary structures of heparin- and heparan sulfate-derived oligosaccharides using band-selective homonuclear-decoupled two dimensional ¹H NMR experiments
 Das SK, Mallet JM, Esnault J, Driguez PA, Duchaussoy P, Sizun P, Herault JP, Herbert JM, Petitou M*, Sinay P// *Ecole Normale Super, CNRS, Dept Chim, 24 rue Lhomond, FR-75231 Paris 05, France
Angew Chem Int Ed 2001 **40** (9) 1670
- Synthesis of conformationally locked carbohydrates: A skew-boat conformation of L-iduronic acid governs the antithrombotic activity of heparin
 Haller M, Boons GJ// *Univ Georgia, Complex Carbohydrate Res Ctr, 220 Riverbend Rd, Athens, GA 30602, USA
J Chem Soc Perkins Trans I 2001 (8) 814
- Towards a modular approach for heparin synthesis
 Li ZC, Shen Y, Liang YZ, Li FM// Beijing Univ, Coll Chem, Dept Polymer Sci & Engn, CN-100871 Beijing, Peoples Rep China
Chin J Polym Sci 2001 **19** (3) 297
- Morphological transition between vesicles and tubules for a glycopolymer-containing amphiphilic diblock copolymer ion aqueous solutions
 Olhero SM, Tari G, Ferreira JMF// Univ Aveiro, Dept Ceram & Glass Engn, UIMC, PT-3810-193 Aveiro, Portugal
J Am Ceram Soc 2001 **84** (4) 719
- Feedstock formulations for direct consolidation of porcelains with polysaccharides
 Ryabov S, Kotelnikova N, Kercha Y, Laptiy S, Gaiduk R, Kosenko L, Yakovenko A// Natl Acad Sci Ukraine, Inst Macromol Chem, 48 Kharkovskoe Shosse, UA-02160 Kiev, Ukraine
Macromol Sympoia 2001 **164** 421
- Preparation of polymer composites on the base of polyurethanes and natural polysaccharides