

Bibliography of carbohydrate polymers

(4 weeks journals. Search completed at 19th. Mar. 2008)

1. Reviews

- Auerbach MH, Craig SAS, Howlett JF, Hayes KC// Danisco USA Inc, 565 Taxter Rd, Elmsford, NY 10523, USA
Nutr Rev 2007 **65** (12 Pt 1) 544
Caloric availability of polydextrose
- Bajaj IB, Survase SA, Saudagar PS, Singhal RS// *Univ Mumbai, Inst Chem Technol, Food Engn & Technol Dept, IN-400019 Mumbai, India
Food Technol Biotechnol 2007 **45** (4) 341
Gellan gum: Fermentative production, downstream processing and applications
- Bhat SD, Aminabhavi TM// *Karnatak Univ, Membrane Separat Div, Ctr Excellence Polymer Sci, IN-580003 Dharwad, Karnataka, India
Sep Purif Rev 2007 **36** (3–4) 203
Pervaporation separation using sodium alginate and its modified membranes - A review
- Carrier RL, Miller LA, Ahmed M// Northwestern Univ, Dept Chem Engr, 457 Snell Engr Ctr, Boston, MA 02115, USA
J Controlled Release 2007 **123** (2) 78
The utility of cyclodextrins for enhancing oral bioavailability
- Dhawan S, Kaur J// Panjab University, Dept Biotechnol, IN-160014 Chandigarh, India
Crit Rev Biotechnol 2007 **27** (4) 197
Microbial mannans: An overview of production and applications
- Singhal RS, Kennedy JF, Gopalakrishnan SM, Kaczmarek A, Knill CJ, Akmar PF// Univ Mumbai, Inst Chem Technol, Food Engn & Technol Dept, Matunga, IN-400019 Mumbai, India
Carbohydr Polym 2008 **72** (1) 1
Industrial production, processing and utilization of sago palm-derived products
- Bondeson D, Oksman K// *Norwegian Univ Sci & Technol, Dept Engr Design & Materials, Richard Birkelands Vei 2B, NO-7491 Trondheim, Norway
Compos Interface 2007 **14** (7–9) 617
Dispersion and characteristics of surfactant modified cellulose whiskers nano-composites
- Dhepe PL, Fukuoka A// *Hokkaido Univ, Catalysis Res Ctr, Sapporo, Hokkaido 001 002, Japan
Catal Surv Asia 2007 **11** (4) 186
Cracking of cellulose over supported metal catalysts
- Gafourian T, Safari A, Adibkia K, Parviz F, Nokhodchi A// Tabriz Univ Med Sci, Sch Pharm, Drug Appl Res Ctr, Daneshgah St, Tabriz 51664, Iran
J Pharm Sci 2007 **96** (12) 3334
A drug release study from hydroxypropylmethylcellulose (HPMC) matrices using QSPR modeling
- Ganiev RF, Alekseeva OV, Rozhkova OV, Padokhin VA, Anikin YA// Russian Acad Sci, Inst Solution Chem, ul Akademicheskaya 1, RU-153045 Ivanovo, Russia
Dokl Chem 2007 **417** (1) 273
Changes in the rheological properties of mixtures of water-soluble cellulose ethers under mechanical treatment
- Gao D, Yao SJ*, Lin DQ// *Zhejiang Univ, Dept Chem & Biochem Engr, CN-310027 Hangzhou, Peoples Rep China
J Appl Polym Sci 2008 **107** (1) 674
Preparation and adsorption behavior of a cellulose-based, mixed-mode adsorbent with a benzylamine ligand for expanded bed applications
- Gelin K, Bodin A, Gatenholm P, Mihranyan A, Edwards K, Stromme M// *Uppsala Univ, Dept Phys & Anal Chem, POB 579, SE-75123 Uppsala, Sweden
Polymer 2007 **48** (26) 7623
Characterization of water in bacterial cellulose using dielectric spectroscopy and electron microscopy
- He JX, Cui SZ, Wang SY// Donghua Univ, Coll Textiles, CN-201620 Shanghai, Peoples Rep China
J Appl Polym Sci 2008 **107** (2) 1029
Preparation and crystalline analysis of high-grade bamboo dissolving pulp for cellulose acetate
- Hiltunen R, Josling PD, James MH// Univ Helsinki, Helsinki, Finland
Adv Ther 2007 **24** (5) 1146
Preventing airborne infection with an intranasal cellulose powder formulation (Nasaleze Travel®)
- Hribernik S, Smole MS, Kleinschek KS, Bele M, Jamnik J, Gaberscek M// Univ Maribor, Fac Mech Engr, Smetanova ul 17, SI-2000 Maribor, Slovenia
Polym Degrad Stabil 2007 **92** (11) 1957
Flame retardant activity of SiO₂-coated regenerated cellulose fibres
- Ivanov C, Popa M*, Ivanov M, Popa AA// *Gh Asachi Tech Univ Iasi, Fac Chem Engr, Dept Nat & Synthet Polymers, Blvd D Mangeron 71A, RO-700050 Iasi, Romania
J Optoelectron Adv Mater 2007 **9** (11) 3440
Synthesis of poly(vinyl alcohol)-methyl cellulose hydrogel as possible scaffolds in tissue engineering
- John MJ, Anandjiwala RD, Pothan LA, Thomas S// *Mahatma Gandhi Univ, Sch Chem Sci, Priyadarshini Hills PO, IN-686560 Kottayam, Kerala, India
Compos Interface 2007 **14** (7–9) 733
Cellulosic fibre-reinforced green composites

As a service to subscribers of the journal, this bibliography contains newly published material in the field of carbohydrate polymers. The bibliography is divided into thirteen sections: 1 Reviews; 2 Cellulose; 3 Cellulose-degrading enzymes; 4 Chitin/Chitosan; 5 Cyclodextrins; 6 Lignin; 7 Lipopolysaccharides; 8 Pectin; 9 Starch; 10 Starch-degrading enzymes; 11 Polysaccharides - Microbial; 12 Polysaccharides - Plant; 13 Polysaccharides - Other. Within each section, articles are listed in alphabetical order with respect to author. When there are no publications to appear under one of these headings, that section will be omitted.

- Juntaro J, Pommet M, Mantalaris A, Shaffer M, Bismarck A*// *Imperial Coll London, Dept Chem Engr, Polymer & Composite Engr Grp, London SW7 2AZ, England
Compos Interface 2007 **14** (7-9) 753
 Nanocellulose enhanced interfaces in truly green unidirectional fibre reinforced composites
- Kan CW, Yuen CWM, Jiang SQ// Hong Kong Polytech Univ, Inst Textiles & Clothing, Kowloon, Hong Kong, Peoples Rep China
Surf Rev Lett 2007 **14** (4) 565
 Effect of surface treatment on the enzymatic treatment of cellulosic fiber
- Kelly FM, Johnston JH, Borrmann T, Richardson MJ// Victoria Univ Wellington, Sch Chem & Phys Sci, POB 600, Wellington, New Zealand
Eur J Inorg Chem 2007 (35) 5571
 Functionalised hybrid materials of conducting polymers with individual fibres of cellulose
- Khan FZ, Shiotsuki M, Nishio Y, Masuda T*// *Kyoto Univ, Grad Sch Engr, Dept Polymer Chem, Katsura Campus, Kyoto 615 8510, Japan
Macromolecules 2007 **40** (26) 9293
 Synthesis and properties of amidoimide dendrons and dendronized cellulose derivatives
- Kohler S, Liebert T, Schobitz M, Schaller J, Meister F, Gunther W, Heinze T*// *Univ Jena, Ctr Excellence Polysaccharide Res, Humboldtstr 10, DE-07743 Jena, Germany
Macromol Rapid Commun 2007 **28** (24) 2311
 Interactions of ionic liquids with polysaccharides 1. Unexpected acetylation of cellulose with 1-ethyl-3-methylimidazolium acetate
- Li SH, Xie HB, Zhang SB*, Wang XH// *Chinese Acad Sci, Changchun Inst Appl Chem, State Key Lab Polymer Phys & Chem, CN-130022 Changchun, Peoples Rep China
Chem Commun 2007 (46) 4857
 Facile transformation of hydrophilic cellulose into superhydrophobic cellulose
- Liu SQ, Joshi SC*, Lam YC, Tam KC// *Nanyang Technol Univ, Sch Mech & Aerospace Engr, SG-639798 Singapore, Rep Singapore
Carbohydr Polym 2008 **72** (1) 133
 Thermoreversible gelation of hydroxypropylmethylcellulose in simulated body fluids
- Luneva NK, Petrovskaya LI, Ezovitova TI// Natl Acad Sci Belarus, State Sci Inst, Inst Gen & Inorgan Chem, Minsk, Byelarus
Russ J Appl Chem Eng Tr 2007 **80** (11) 1923
 Synthesis and properties of cellulose phosphates
- Maneerung T, Tokura S, Rujiravanit R*// *Chulalongkorn Univ, Petroleum & Petrochem Coll, TH-10330 Bangkok, Thailand
Carbohydr Polym 2008 **72** (1) 43
 Impregnation of silver nanoparticles into bacterial cellulose for antimicrobial wound dressing
- Moharram MA, Mahmoud OM// Natl Res Ctr, Phys Div, Spect Dept, Cairo, Egypt
J Appl Polym Sci 2008 **107** (1) 30
 FTIR spectroscopic study of the effect of microwave heating on the transformation of cellulose I into cellulose II during mercerization
- Muratov GA// Acad Sci Uzbek, Inst Microbiol, UZ-700128 Tashkent, Uzbekistan
Chem Nat Compd 2007 **43** (5) 641
 Bioconversion of cotton cellulose to glucose by supercritical CO₂
- Olaru N, Ciolacu D, Tampa D, Olara L// Inst Macromol Chem Petru Poni, Aleea Grigore Ghica-Voda 41 A, RO-700487 Iasi, Romania
J Optoelectron Adv Mater 2007 **9** (12) 3917
 Structural modifications of cellulose in heterogeneous acetylation process
- Ostmark E, Lindqvist J, Nystrom D, Malmstrom E*// *KTH - Royal Inst Technol, Fibre & Polymer Technol, Teknikringen 56-58, SE-10044 Stockholm, Sweden
Biomacromolecules 2007 **8** (12) 3815
 Dendronized hydroxypropyl cellulose: Synthesis and characterization of biobased nanoobjects
- Phisalaphong M, Suwanmajo T, Sangtherapitiku P// Chulalongkorn Univ, Dept Chem Engr, TH-10330 Bangkok, Thailand
J Appl Polym Sci 2008 **107** (1) 292
 Novel nanoporous membranes from regenerated bacterial cellulose
- Plagge A, Adler HJ, Jaehne E, Paliwoda G, Rohwerder M, Stratmann M, Eichhorn KJ// Univ Stn Mississippi, Sch Polymers & High Performance Materials, Hattiesburg, Ms 39406, USA
Macromol Mater Eng 2007 **292** (12) 1245
 Single and double polymer layer arrangements of acid groups containing cellulose and basic groups containing polyethyleneimine on steel
- Qui HX, Yu JG*// *Tianjin Univ, Sch Sci, Dept Chem, CN-300072 Tianjin, Peoples Rep China
J Appl Polym Sci 2008 **107** (1) 118
 Polyacrylate/carboxymethylcellulose modified montmorillonite) superabsorbent nanocomposite: Preparation and water absorbency
- Stoica-Guzun A, Stroescu M, Tache F, Zaharescu T*, Grosu E// *Advanced Res Inst Elect Engr, 313 Splaiul Unirii, RO-030138 Bucharest, Romania
Nucl Instrum Methods Phys Res B 2007 **265** (1) 434
 Effect of electron beam irradiation on bacterial cellulose membranes used as transdermal drug delivery systems
- Striegel AM// Florida State Univ, Dept Chem & Biochem, Tallahassee, FL, USA
Biomacromolecules 2007 **8** (12) 3944
 Influence of anomeric configuration on mechanochemical degradation of polysaccharides: Cellulose versus amylose
- Suwantong O, Opanasopit P, Ruktanonchai U, Supaphol P*// *Chulalongkorn Univ, Technol Ctr Electrospun Fibers, Bangkok, Thailand
Polymer 2007 **48** (26) 7546
 Electrospun cellulose acetate fiber mats containing curcumin and release characteristic of the herbal substance
- Thunwall M, Boldizar A, Rigdahl M*, Banke K, Lindstrom T, Tufvesson H, Hogman S// *Chalmers Univ Technol, Dept Materials & Mfg Technol, SE-41296 Gothenburg, Sweden
J Appl Polym Sci 2008 **107** (2) 918
 Processing and properties of mineral-interfaced cellulose fibre composites
- Wu QJ, Henriksson M, Liu X, Berglund LA*// *KTH - Royal Inst Technol, Fibre & Polymer Technol, SE-10044 Stockholm, Sweden
Biomacromolecules 2007 **8** (12) 3687
 A high strength nanocomposite based on microcrystalline cellulose and polyurethane
- Xiao Y, Lim HM, Chung TS*, Rajagopalan R// *Natl Univ Singapore, Dept Chem Biomol Engr, 10 Kent Ridge Cres, SG-119260 Singapore, Rep Singapore
Langmuir 2007 **23** (26) 12990
 Acetylation of β -cyclodextrin surface-functionalized cellulose dialysis membranes with enhanced chiral separation
- Xie H, King A, Kilpelainen I, Granstrom M, Argyropoulos DS*// *Nth Carolina State Univ, Dept Forest Biomaterials Sci & Engr, Raleigh, NC 27695, USA
Biomacromolecules 2007 **8** (12) 3740
 Thorough chemical modification of wood-based lignocellulosic materials in ionic liquids
- Xu L, Yue ZY, Wang M, Zhai ML*, Yoshii F, Seko N, Peng J, Wei GS, Li JQ// *Peking Univ, Coll Chem & Mol Engr, Dept Appl Chem, Beijing Natl Lab Mol Sci, CN-100871 Beijing, Peoples Rep China
Nucl Instrum Methods Phys Res B 2007 **265** (1) 394
 Radiation effects on hydroxypropyl methylcellulose phthalate in aqueous system
- Yokota S, Ueno T*, Kitaoka T, Tatsumi D, Wariishi H// *Kyushu Univ, Dept Forest & Forest Prod Sci, Higashi ku, Fukuoka 812 8581, Japan
Biomacromolecules 2007 **8** (12) 3848
 Morphological imaging of single methylcellulose chains and their thermoresponsive assembly on a highly oriented pyrolytic graphite surface
- Yu H, Liu R, Shen D, Wu Z, Huang Y*// *CAS, Inst Chem, Beijing Nat Lab Mol Sci, Joint Lab Polym Sci & Material, State Key Lab Polym Phys & Chem, CN-100080 Beijing, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 122
 Arrangement of cellulose microfibrils in the wheat straw cell wall
- Zhang HR, Zhang HH, Tong MW, Shao HL*, Hu XC// *Donghua Univ, Coll Material Sci & Engr, State Key Lab Modification Chem Fibers & Polymer Materials, CN-200051 Shanghai, Peoples Rep China
J Appl Polym Sci 2008 **107** (1) 636
 Comparison of the structures and properties of Lyocell fibers from high hemi-cellulose pulp and high α -cellulose pulp
- Zhao Y, Li X, Liu L, Chen F// East China Normal Univ, Dept Environm Sci, CN-200062 Shanghai, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 144
 Fluoride removal by Fe(III)-loaded ligand exchange cotton cellulose adsorbent from drinking water
- Zhou Q, Rutland MW, Teeri TT, Brumer H*// *Royal Inst Technol - KTH, Sch Biotechnol, Albanova Univ Ctr, SE-10691 Stockholm, Sweden
Cellulose 2007 **14** (6) 625
 Xyloglucan in cellulose modification

3. Cellulose-degrading enzymes

- Coleman DJ, Studler MJ, Naleway JJ*// *Univ Oregon, Marker Gene Technol Inc, Riverfront Res Pk, 1850 Millrace Dr, Eugene, Or 97403, USA
Anal Chem 2007 **371** (2) 146
 A long-wavelength fluorescent substrate for continuous fluorometric determination of cellulase activity: Resorufin- β -D-cellobioside
- Liu J, Yang JC*// *Tsing Hua Univ, Inst Biochem Engr, Dept Chem Engr, CN-100084 Beijing, Peoples Rep China
Food Technol Biotechnol 2007 **45** (4) 420
 Cellulase production by *Trichoderma koningii* AS3.4262 in solid-state fermentation using lignocellulosic waste from the vinegar industry

Mirzaakhmedov SY, Ziyaviddinov ZF, Akhmedova ZR, Saliev AB, Ruzmetova DT, Ashurov KB, Fessas D, Iametti S// Inst Bioorgan Chem, pr Kh Abdullaeva 83, UZ-100125 Tashkent, Uzbekistan
Chem Nat Compd 2007 **43** (5) 594

Isolation, purification, enzymatic activity of cellulase components of the fungus *Aspergillus terreus*

Selig MJ, Viamajala S, Decker SR, Tucker MP, Himmel ME, Vinzant TB// Natl Renewable Energy Lab, 1617 Cole Blvd, Golden, Co 80401, USA
Biotechnol Prog 2007 **23** (6) 1333

Deposition of lignin droplets produced during dilute acid pretreatment of maize stems retards enzymatic hydrolysis of cellulose

Wang Y, Zhao Y, Deng Y*// *Georgia Inst Technol, Sch Chem & Biomol Engr, Atlanta, Ga 30332, USA
Carbohydr Polym 2008 **72** (1) 178

Effect of enzymatic treatment on cotton fiber dissolution in NaOH/urea solution at cold temperature

4. Chitin/Chitosan

Baimark Y, Niamsa N, Morakot N, Threeprom J, Srisuwan Y// Mahasarakham Univ, Fac Sci, Dept Chem, TH-44150 Mahasarakham, Thailand
Int J Polym Anal Charact 2007 **12** (6) 457

Preparation and morphology study of biodegradable chitosan/methoxy poly(ethylene glycol)-*b*-poly(ϵ -caprolactone) nanocomposite films

Casimiro MH, Gil MH, Leal JP// Nucl & Technol Inst, Dept Phys, EN 10, PT-2686-953 Sacavem, Portugal
Nucl Instrum Methods Phys Res B 2007 **265** (1) 406

Drug release assays from new chitosan/pHEMA membranes obtained by gamma irradiation

Chebotok EN, Novikov VY, Konovalova IN// Murmansk State Tech Univ, Murmansk, Russia
Russ J Appl Chem Eng Tr 2007 **80** (10) 1753

Kinetics of base deacetylation of chitin and chitosan as influenced by their crystallinity

Chen HQ, Fan MW*// *Wuhan Univ, Sch Stomatol, MoE Key Lab Oral Biomed Engr, CN-430079 Wuhan, Peoples Rep China
J Bioact Compat Polym 2007 **22** (5) 475

Chitosan/carboxymethyl cellulose polyelectrolyte complex scaffolds for pulp cells regeneration

Chen JY, Zhou PJ*, Li JL, Wang Y// *Wuhan Univ, Coll Resource & Environm Sci, CN-430079 Wuhan, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 128

Studies on the photocatalytic performance of cuprous oxide/chitosan nanocomposites activated by visible light

Daubert LN, Brennan RA*// *Pennsylvania State Univ, Dept Civil & Environm Engr, 212 Sackett Bldg, University Park, Pa 16802, USA
Environ Eng Sci 2007 **24** (10) 1475

Passive remediation of acid mine drainage using crab shell chitin

Duan B, Wu LL, Yuan XY*, Hu Z, Li XL, Zhang Y, Yao KD, Wang M// *Tianjin Univ, Sch Materials Sci & Engr, CN-300072 Tianjin, PRC
J Biomed Mater Res A 2007 **83A** (3) 868

Hybrid nanofibrous membranes of PLGA/chitosan fabricated via an electrospinning array

Felinto MCFC, Parra DF*, Da Silva CC, Angerami J, Oliveira MJA, Lugao AB// *Inst Pesquisas Energet & Nucl IPEN/CNEN/SP, Av Prof Lineu Prestes 2242, Cidade Univ, BR-05508-000 Sao Paulo, Brazil
Nucl Instrum Methods Phys Res B 2007 **265** (1) 418

The swelling behavior of chitosan hydrogels membranes obtained by UV- and γ -radiation

Ivshin VP, Artamonova SD, Ivshina TN, Sharnina FF// Mari State Univ, Pl Lenina 1, RU-424000 Yoshkar-Ola, Mari El, Russia
Polym Sci Ser B 2007 **49** (11-12) 305

Methods for isolation of chitin-glucan complexes from higher fungi native biomass

Jordan JL, Henderson S, Elson CM, Zhou J, Kydonieus A, Downie J, Lee TDG// Dalhousie Univ, Dept Pathol, 5850 College St, Tupper Med Bldg, Halifax, Nova Scotia, Canada B3H 1X5
Urology 2007 **70** (5) 1014

Use of a sulfated chitosan derivative to reduce bladder inflammation in the rat

Kaneko Y, Matsuda S, Kadokawa J*// *Kagoshima Univ, Grad Sch Sci & Engr, 1-21-40 Korimoto, Kagoshima 890 0065, Japan
Biomacromolecules 2007 **8** (12) 3959

Chemoenzymatic syntheses of amylose-grafted chitin and chitosan

Kim MS, Choi YJ, Noh I*, Tae G// *Seoul Natl Univ Technol, Dept Chem Engr, Gongnung dong 172, Nowon gu, Seoul 139 743, South Korea
J Biomed Mater Res A 2007 **83A** (3) 674

Synthesis and characterization of *in situ* chitosan-based hydrogel via grafting of carboxyethyl acrylate

Kirsebom H, Aguilar MR*, Roman JS, Fernandez M, Prieto MA, Bondar B// *Inst Ciencias & Tecnol Polimeros - CSIC, Dept Biomaterials, Juan de la Cierva 3, ES-28006 Madrid, Spain
J Bioact Compat Polym 2007 **22** (6) 621

Macroporous scaffolds based on chitosan and bioactive molecules

Knight DK, Shapka SN, Amsden BG*// *Queens Univ, Dept Chem Engr, Kingston, Ontario, Canada K7L 3N6
J Biomed Mater Res A 2007 **83A** (3) 787

Structure, depolymerization, and cytocompatibility evaluation of glycol chitosan

Kudyshkin VO, Milusheva RY, Futoryanskaya AM, Yunusov MY, Rashidova SS// Acad Sci Uzbekistan Rep, Inst Polymer Chem & Phys, Tashkent, Uzbekistan
Russ J Appl Chem Eng Tr 2007 **80** (10) 1750

Synthesis of graft copolymers of *N*-vinyleaprolactam on chitosan

Li G, Zhuang Y, Mu Q, Wang M, Fang Y*// *Univ Sci & Technol China, Dept Polym Sci & Engr, CN-230026 Hefei, Anhui, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 60

Preparation, characterization and aggregation behavior of amphiphilic chitosan derivative having poly (L-lactic acid) side chains

Liao B, Liu RG, Huang Y*// *Chinese Acad Sci, Inst Chem, Beijing Natl Lab Mol Sci, CN-100080 Beijing, Peoples Rep China
Polym J 2007 **39** (10) 1071

A supramolecular chiroptical switch based on chitosan and anionic porphyrin complex film

Liu FX, Liu LR, Li XM, Zhang QQ*// *Peking Union Med Coll, Chinese Acad Med Sci, Inst Biomed Engr, CN-300192 Tianjin, Peoples Rep China
J Mater Sci Mater Med 2007 **18** (11) 2215

Preparation of chitosan-hyaluronate double-walled microspheres by emulsification-coacervation method

Liu ZH, Jiao YP, Zhang ZY, Zhou CR*// *Jinan Univ, Dept Materials Sci & Engr, CN-510632 Guangzhou, Peoples Rep China
J Biomed Mater Res A 2007 **83A** (4) 1110

Surface modification of poly(L-lactic acid) by entrapment of chitosan and its derivatives to promote osteoblasts-like compatibility

Mahlous M, Tahtat D, Benamer S, Khodja AN// Ctr Rech Nucl Alger, 2 Blvd Frantz Fanon, BP 399 Alger-Gare, Algiers, Algeria
Nucl Instrum Methods Phys Res B 2007 **265** (1) 414

Gamma irradiation-aided chitin/chitosan extraction from prawn shells

Mangiapia G, Frielinghaus H, D'Errico G, Ortona O, Sartorio R, Paduano L*// *Univ Studi Naples Federico II, Dipt Chim, Via Cinthia, IT-80126 Naples, Italy
Phys Chem Chem Phys 2007 **9** (46) 6150

Physico-chemical and structural properties of hydrogels formed by chitosan, in the presence and absence of poly(vinylpyrrolidone) and sodium decylsulfate

Maron LB, Covas CP, Da Silveira NP, Pohlmann A, Mertins O, Tatsuo LN, Sant'Anna OAB, Moro AM, Takata CS, De Araujo PS, De Costa MH*// *Inst Butantan, Lab Microesferas Lipossomas, Av Vital Brazil 1500, BR-05503-900 Sao Paulo, Brazil
J Liposome Res 2007 **17** (3-4) 155

LUVs recovered with chitosan: A new preparation for vaccine delivery

Mattioli-Belmonte M, Zizzi A, Lucarini G, Giantomassi F, Biagini G, Tucci G, Orlando F, Provinciali M, Carezzi F, Morganti P// Marche Polytech Univ, Sch Med, Dept Mol Pathol & Innovative Therapies - Histol, Marche, Italy
J Bioact Compat Polym 2007 **22** (5) 525

Chitin nanofibrils linked to chitosan glycolate as spray, gel, and gauze preparations for wound repair

Moura MJ, Figueiredo MM, Gil MH// Inst Super Engr Coimbra, Dept Engr Quim, PT-3030-199 Coimbra, Portugal
Biomacromolecules 2007 **8** (12) 3823

Rheological study of genipin cross-linked chitosan hydrogels

Nair LS, Starnes T, Ko JWK, Laurencin CT// Univ Virginia, Dept Orthopaed Surg, 415 Lane Rd, Box 800759, Charlottesville, Va 22908, USA
Biomacromolecules 2007 **8** (12) 3779

Development of injectable thermogelling chitosan-inorganic phosphate solutions for biomedical applications

Pasanphan W, Chirachanchai S*// *Chulalongkorn Univ, Petroleum & Petrochem Coll, Soi Chula 12, Phya Thai Rd, TH-10330 Bangkok, Thailand
Carbohydr Polym 2008 **72** (1) 169

Conjugation of gallic acid onto chitosan: An approach for green and water-based antioxidant

Peniche C, Fernandez M, Rodriguez G*, Parra J, Jimenez J, Lopez Bravo A, Gomez D, San Roman J// *Inst Ciencia & Tecnol Polimeros - CSIC, Juan Cierva 3, ES-28006 Madrid, Spain
J Mater Sci Mater Med 2007 **18** (9) 1719

Cell supports of chitosan/hyaluronic acid and chondroitin sulphate systems. Morphology and biological behaviour

Pereda M, Aranguren MI, Marcovich NE*// *Univ Nacl Mar del Plata, INTEMA, Dept Chem Engr, Juan B Justo 4302, AR-7600 Mar del Plata, Argentina
J Appl Polym Sci 2008 **107** (2) 1080

Characterization of chitosan/caseinate films

- Pignatello R, Stancampiano AHS, Ventura CA, Puglisi G// Citta Univ Catania, Dipt Sci Farmaceut, Viale A Doria 6, IT-95125 Catania, Italy
J Drug Targeting 2007 **15** (9) 603
 Dexamethasone sodium phosphate-loaded chitosan based delivery systems for buccal application
- Pourjavadi A, Seidi F, Salimi H// Sharif Univ Technol, Dept Chem, Polymer Res Lab, PO Box, Tehran 11365, Iran
Starch 2007 **59** (11) 557
 Synthesis of novel water-soluble aminodeoxychitin derivatives
- Qin YM// Jiaxing Coll, Biochem Materials Res & Dev Ctr, CN-314001 Jiaxing, Zhejiang Prov, Peoples Rep China
J Appl Polym Sci 2008 **107** (2) 993
 The preparation and characterization of chitosan wound dressings with different degrees of acetylation
- Qiu JD, Guo J, Liang RP, Xiong M// Nanchang Univ, Dept Chem, CN-330031 Nanchang, Peoples Rep China
Electroanalysis 2007 **19** (22) 2335
 A nanocomposite chitosan based on ferrocene-modified silica nanoparticles and carbon nanotubes for biosensor application
- Roncal T, Oviedo A, De Armentia IL, Fernandez L, Villaran MC// Fdn LEIA CDT, Unit Sustainable Chem, Parque Tecnol Alava, Leonardo da Vinci 11, ES-01510 Minano, Alava, Spain
Carbohydr Res 2007 **342** (18) 2750
 High yield production of monomer-free chitosan oligosaccharides by pepsin catalyzed hydrolysis of a high deacetylation degree chitosan
- Sarmiento B, Ribeiro A, Veiga F, Sampaio P, Neufeld R, Ferreira D// Univ Porto, Fac Pharm, Dept Pharmaceut Technol, Rua Anibal Cunha 164, PT-4050-047 Oporto, Portugal
Pharm Res 2007 **24** (12) 2198
 Alginate/chitosan nanoparticles are effective for oral insulin delivery
- Seo S, King JM*, Prinyawiwatkul W// *Louisiana State Univ, Dept Food Sci, Ctr Agric, 111 Food Sci Bldg, Baton Rouge, La 70803, USA
J Food Sci 2007 **72** (9) C522
 Simultaneous depolymerization and decolorization of chitosan by ozone treatment
- Shipovskaya AL, Fomina VI, Kazmicheva OF, Timofeeva GN, Komarov BA// Chernyshevskii State Univ, Astrakhanskaya ul 83, RU-410012 Saratov, Russia
Polym Sci Ser B 2007 **49** (11-12) 288
 Effect of molecular mass on the optical activity of chitosan
- Synytysya A, Blafkova P, Synytysya A, Copikova J, Spevacek J, Uher M// Inst Chem Technol Prague, Dept Carbohydr Chem & Technol, Technicka 5, CZ-16628 Prague 6, Czech Republic
Carbohydr Polym 2008 **72** (1) 21
 Conjugation of kojic acid with chitosan
- Tahtat D, Uzun C*, Mahlous M, Guven G// *Algiers Nucl Res Ctr, 2 Blvd Frantz Fanon, BP 399 Alger-Gare, Algiers, Algeria
Nucl Instrum Methods Phys Res B 2007 **265** (1) 425
 Beneficial effect of gamma irradiation on the *N*-deacetylation of chitin to form chitosan
- Tigh RS, Karakecili A, Gumusderelioglu M*// *Hacettepe Univ, Dept Chem Engn, TR-06532 Ankara, Turkey
J Mater Sci Mater Med 2007 **18** (9) 1665
In vitro characterization of chitosan scaffolds: Influence of composition and deacetylation degree
- Trimukhe KD, Bachate S, Gokhale DV, Varma AJ*// *Natl Chem Lab, Polymer Sci & Engn Div, IN-411008 Pune, Maharashtra, India
Int J Biol Macromol 2007 **41** (5) 491
 Metal complexes of crosslinked chitosans. Part II. An investigation of their hydrolysis to chitooligosaccharides using chitosanase
- Ubaidulla U, Khar RK, Ahmed FJ, Panda AK// Hamdard Univ, Fac Pharm, Dept Pharmaceut, New Delhi, India
J Pharm Pharmacol 2007 **59** (10) 1345
 Development and *in-vivo* evaluation of insulin-loaded chitosan phthalate microspheres for oral delivery
- Ubaidulla U, Khar RK, Ahmad FJ, Sultana Y, Panda AK// Hamdard Univ, Fac Pharm, Dept Pharmaceut, New Delhi, India
J Pharm Sci 2007 **96** (11) 3010
 Development and characterization of chitosan succinate microspheres for the improved oral bioavailability of insulin
- Urbanska AM, Bhathena J, Prakash S*// *McGill Univ, Fac Med, Dept Biomed Engn, Artificial Cells & Organs Res Ctr, 3775 University St, Montreal, Quebec, Canada H3A 2B4
Can J Physiol Pharmacol 2007 **85** (9) 884
 Live encapsulated *Lactobacillus acidophilus* cells in yogurt for therapeutic oral delivery: Preparation and *in vitro* analysis of alginate-chitosan microcapsules
- Wongpanit P, Tabata Y, Rujiravanit R// Chulalongkorn Univ, Petroleum & Petrochem Coll, TH-10330 Bangkok, Thailand
Macromol Biosci 2007 **7** (12) 1258
 Miscibility and biodegradability of silk fibroin/carboxymethyl chitin blend films
- Wu C, Pan JL*, Bao ZM, Yu YT// *Kankai Univ, MoE Key Lab Bioactive Materials, CN-300071 Tianjin, Peoples Rep China
J Mater Sci Mater Med 2007 **18** (11) 2211
 Fabrication and characterization of chitosan microcarrier for hepatocyte culture
- Yang YM, Hu W, Wang XD, Gu XS*// *Nantong Univ, Jiangsu Prov Key Lab Neurogeneration, IN-226001 Lucknow, India
J Mater Sci Mater Med 2007 **18** (11) 2117
 The controlling biodegradation of chitosan fibers by *N*-acetylation *in vitro* and *in vivo*
- Yuan WY, Dong H, Li CM*, Cui XQ, Yu L, Lu ZS, Zhou Q// *Nanyang Technol Univ, Sch Chem & Biomed Engn, Ctr Adv Bionanosystems, 70 Nanyang Dr, SG-637457 Singapore, Rep Singapore
Langmuir 2007 **23** (26) 13046
 pH-Controlled construction of chitosan/alginate multilayer film: Characterization and application for antibody immobilization
- Zhang YY, Yang Y, Tang K, Hu X, Zou GL*// *Wuhan University, College Life Sciences, State Key Laboratory Virology, CN-430072 Wuhan, Peoples Republic China
J Appl Polym Sci 2008 **107** (2) 891
 Physicochemical characterization and antioxidant activity of quercetin-loaded chitosan nanoparticles
- Zheng YL, Yang W*, Wang CC, Hu JH, Fu SK, Dong L, Wu L, Shen XZ// *Fudan Univ, Dept Macromol Sci, MoE Key Lab Mol Engn Polymers, CN-200433 Shanghai, Peoples Rep China
Eur J Pharm Biopharm 2007 **67** (3) 621
 Nanoparticles based on the complex of chitosan and polyaspartic acid sodium salt: Preparation characterization and the use for 5-fluorouracil delivery
- Zhou G, Li Y*, Zhang L, Zuo Y, Jansen JA// Sichuan University, Research Ctr Nano- Biomaterials, Anal & Testing Ctr, CN-610064 Chengdu, Peoples Rep China
J Biomed Mater Res A 2007 **83A** (4) 931
 Preparation and characterization of nano-hydroxyapatite/chitosan/konjac glucomannan composite
- Zhou HY, Chen XG*, Zhang WF// *Ocean Univ Qingdao, Coll Marine Life Sci, CN-266003 Qingdao, Peoples Rep China
J Biomed Mater Res A 2007 **83A** (4) 1146
In vitro and *in vivo* evaluation of mucoadhesiveness of chitosan/cellulose acetate multimicrospheres

5. Cyclodextrins

- Anconi CPA, Nascimento CS, Fedoce-Lopes J, Dos Santos HF, De Almeida WB*// *Univ Fed Minas Gerais, ICEx, Dept Quim, LQC-MM, Campus Univ, BR-31270-901 Belo Horizonte, MG, Brazil
J Phys Chem A 2007 **111** (48) 12127
Ab initio calculations on low-energy conformers of α -cyclodextrin
- Banerjee SS, Chen DH*// *Natl Cheng Kung Univ, Dept Chem Engn, Tainan 701, Taiwan
Chem Mater 2007 **19** (25) 6345
 Magnetic nanoparticles grafted with cyclodextrin for hydrophobic drug delivery
- Geze A, Chau LT, Choinsard L, Mathieu JP, Marti-Batlle D, Riou L, Putaux JL, Wouessidjewe D// Univ Joseph Fourier, UFR Pharm, ICMG FR-2607, DPM UMR UJF/CNRS 5063, BP 53, FR-38041 Grenoble 9, France
Int J Pharm 2007 **344** (1-2) 135
 Biodistribution of intravenously administered amphiphilic β -cyclodextrin nanospheres
- Goh KM, Mahadi NM, Hassan O, Rahman RNZRA, Illias RM*// *Univ Technol Malaysia, Fac Chem & Nat Resources Engn, Dept Bioprocess Engn, MY-81310 Skudai, Johor, Malaysia
J Mol Catal B Enzym 2007 **49** (1-4) 118
 The effects of reaction conditions on the production of γ -cyclodextrin from tapioca starch by using a novel recombinant engineered CGTase
- Gotsev MG, Ivanov PM*// *Bulgarian Academy Sciences, Institute Organic Chemistry, Centre Phytochem, ul Acad G Bonchev, BI 9, BU-1113 Sofia, Bulgaria
ARKIVOC 2007 (13) 167
 Large-ring cyclodextrins. A molecular dynamics study of the conformational dynamics and energetics of CD10, CD14 and CD26
- Guan Y, Qian LY, Xiao HN*// *Univ New Brunswick, Dept Chem Engn, Fredericton, New Brunswick, Canada E3B 5A3
Macromol Rapid Commun 2007 **28** (23) 2244
 Novel anti-microbial host-guest complexes based on cationic β -cyclodextrin polymers and triclosan/butylparaben
- Hirai H, Shiraiishi Y// Univ Tokyo, 1-14-8 Kamiishihara, Chofushi, Tokyo 182 0035, Japan
React Funct Polym 2007 **67** (11) 1115
 Regioselective carboxylation of aromatic compounds using cyclodextrin as mediator

- Hocquet C, Jankowski CK*, Maucilaire L// *CEA Saclay, DRECAM, Serv Chim Mol, LIONS, Bat 125, FR-91191 Gif-sur-Yvette, France
Tetrahedron 2007 **63** (44) 10834
New tubular products from calixarene-cyclodextrin coupling
- Lee S, Kim JM*// *Hanyang Univ, Dept Chem Engr, Seoul 133 791, South Korea
Macromolecules 2007 **40** (26) 9201
 α -Cyclodextrin: A molecule for testing colorimetric reversibility of polydiacetylene supramolecules
- Lo Meo P, D'Anna F, Riel S, Gruttadauria M, Noto R*// *Univ Palermo, Dipt Chim Organ, Vle delle Sci, Parco d'Orleans II, IT-90128 Palermo, Italy
Tetrahedron 2007 **63** (37) 9163
Host-guest interactions involving cyclodextrins: Useful complementary insights achieved by polarimetry
- Martina K, Trotta F, Robaldo B, Belliardi N, Jicsinszky L, Cravotto G*// *Univ Turin, Dipt Sci & Technol Farmaco, Via Giuria 9, IT-10125 Turin, Italy
Tetrahedron Lett 2007 **48** (52) 9185
Efficient regioselective functionalizations of cyclodextrins carried out under microwave or power ultrasound
- Moriwaki C, Pelissari FM, Goncalves RAC, Goncalves JE, Matioli G*// *Univ Estadual Maringa, Pharm & Pharmacol Dept, Av Colombo 5790, BR-87020-900 Maringa, Parana, Brazil
J Mol Catal B Enzym 2007 **49** (1-4) 1
Immobilization of *Bacillus firmus* strain 37 in inorganic matrix for cyclodextrin production
- Poorters L, Armspach D*, Matt D, Toupet L, Choua S, Turek P// *Univ Louis Pasteur, Inst Chim, Lab Chim Inorgan Mol, UMR 7177 CNRS, 1 rue Blaise Pascal, FR-67008 Strasbourg, France
Chem Eur J 2007 **13** (34) 9448
Synthesis and properties of TRANSDIP, a rigid chelator built upon a cyclodextrin cavity: Is TRANSDIP an authentic *trans*-spanning ligand?
- Roux M, Perly B, Djedaini-Pilard F// CEA/DSV/iBiTecs - URA CNRS 2096, Lab Proteines Membranaires, FR-91191 Gif-sur-Yvette, France
Eur Biophys J Biophys Lett 2007 **36** (8) 861
Self-assemblies of amphiphilic cyclodextrins
- Takei S, Shinjo T, Sakaida Y, Hashimoto K// Nissan Chem Ind Co Ltd, Electron Materials Res Labs, 635 Sasakura, Toyama 939 2792, Japan
Jpn J Appl Phys Pt 1 2007 **46** (11) 7273
Gap fill materials using cyclodextrin derivatives in ArF lithography

6. Lignin

- Chopabaeva NN// Minist Educat Sci, AB Bekturov Inst Chem Sci, ul Sh Ualikhanova 106, KZ-050010 Alma Ata, Kazakhstan
Chem Nat Compd 2007 **43** (5) 598
Modified lignin with ion-exchange properties

7. Lipopolysaccharides

- Fulse DB, Jeon HB, Kim KS*// *Yonsei Univ, Dept Chem, Ctr Bioact Mol Hybrids, Seoul 120 749, South Korea
J Org Chem 2007 **72** (26) 9963
Synthesis of tri-, hexa-, and nonasaccharide subunits of the atypical O-antigen polysaccharide of the lipopolysaccharide from Danish *Helicobacter pylori* strains
- Liu CJ, Skognian F, Cai Y, Lowary TL*// *Univ Alberta, Dept Chem, Edmonton, Alberta, Canada T6G 2G2
Carbohydr Res 2007 **342** (18) 2818
Synthesis of the 'primer-adaptor' trisaccharide moiety of *Escherichia coli* O8, O9, O9a lipopolysaccharide
- Perepelov AV, Bartodziejska B, Shashkov AS, Wykrota M, Knirel YA, Rozalski A// RAS, ND Zelinskii Organ Chem Inst, RU-119991 Moscow, Russia
Carbohydr Res 2007 **342** (18) 2826
Structure of a glucosyl phosphate-containing O-polysaccharide of *Proteus vulgaris* O42

8. Pectin

- Kaczmarek H, Bajzer K, Galka P, Kotnowska B// Nicholas Copernicus Univ, Fac Chem, Gagarin 7, PL-87100 Torun, Poland
Polym Degrad Stabil 2007 **92** (11) 2058
Photodegradation studies of novel biodegradable blends based on poly(ethylene oxide) and pectin
- Olennikov DN, Tankhaeva LM// Russian Acad Sci, Siberian Div, Inst Gen & Expt Biol, ul Sakhyanovoi 6, RU-670047 Ulan-Ude, Russia
Chem Nat Compd 2007 **43** (5) 501
Lamiaceae carbohydrates. 1. Pectinic substances and hemicelluloses from *Mentha x piperita*

- Westereng B, Michaelsen TE, Samuelsen AB, Knutsen SH// Norwegian Food Res Inst, Oslovn 1, NO-1430 As, Norway
Carbohydr Polym 2008 **72** (1) 32
Effects of extraction conditions on the chemical structure and biological activity of white cabbage pectin
- Wu BJ, Chen ZK, Wei XL, Sun NY, Lu Y, Wu W*// *Fudan Univ, Sch Pharm, Dept Pharmaceut, 138 Yi Xue Yuan Rd, CN-200032 Shanghai, Peoples Rep China
Eur J Pharm Biopharm 2007 **67** (3) 707
Biphasic release of indomethacin from HPMC/pectin/calcium matrix tablet: I. Characterization and mechanistic study

9. Starch

- Aguilar-Palazuelos E, Zazueta-Morales JD, Jimenez-Arevalo OA, Martinez-Bustos F*// *IPN, Unidad Queretaro, Ctr Invest & Estudios Avanzados, Libramiento Norponiente 2000, Fraccionamiento Real Juriquilla, MX-76230 Santiago de Queretaro, Mexico
Starch 2007 **59** (11) 533
Mechanical and structural properties of expanded extrudates produced from blends of native starches and natural fibers of henequen and coconut
- Cameron DK, Wang YJ*, Moldenhauer KA// *Univ Arkansas, Dept Food Sci, Fayetteville, Ar 72704, USA
Starch 2007 **59** (12) 600
Comparison of starch physicochemical properties from medium-grain rice cultivars grown in California and Arkansas
- Cha JY, Choi AJ, Chun BY, Kim MJ, Chun HS, Kim CJ, Cho YJ, Kim CT*// *Korea Food Res Inst, Food Nano-Biotechnol Res Grp, Songnam 463 746, Gyeonggi, South Korea
Food Sci Biotechnol 2007 **16** (6) 943
Physicochemical characteristics of acid thinned and high pressure treated waxy rice starch for yugwa (Korean rice snack) production
- Chai PP, Park JW*// *Oregon State Univ, Seafood Res & Educat Ctr, 2001 Marine Dr 253, Astoria, Or 97103, USA
J Food Qual 2007 **30** (5) 783
Physical properties of fish proteins cooked with starches or protein additives under ohmic heating
- Chung YL, Lai HM*// *Nat'l Taiwan Univ, Dept Agr Chem, 1 Roosevelt Rd Sec 4, Taipei 10617, Taiwan
Starch 2007 **59** (12) 583
Properties of cast films made of HCl-methanol modified corn starch
- Ciesla K, Eliasson AC// Inst Nucl Chem & Technol, Dorodna 16 Str, PL-03195 Warsaw, Poland
Nucl Instrum Methods Phys Res B 2007 **265** (1) 399
DSC studies of retrogradation and amylose-lipid complex transition taking place in gamma irradiated wheat starch
- Du XF, Jia JH, Xu SY, Zhou YB// Anhui Agric University, Department Food Science & Technol, West Changjiang Rd, CN-230036 Hefei, Anhui, Peoples Rep China
Starch 2007 **59** (12) 609
Molecular structure of starch from *Pueraria lobata* (Willd.) Ohwi relative to kuzu starch
- Duanmu J, Gamstedt EK, Rosling A*// *Abo Akad Univ, Lab Polymer Technol, Biskopsgatan 8, FI-20500 Turku, Finland
Starch 2007 **59** (11) 523
Synthesis and preparation of crosslinked allylglycidyl ether-modified starch-wood fibre composites
- Dubat A// Chopin Technol, Flour Dept, 29 Ave Marcelin Bethelot, FR-92390 Villeneuve Garenne, France
Cereal Food World 2007 **52** (6) 319
Collaborative study concerned with measuring damaged starch using an amperometric method
- Dukic-Ott A, Remon JP, Foreman P, Vervaeke C*// *Univ Ghent, Pharmaceut Technol Lab, Harelbekestr 72, BE-9000 Ghent, Belgium
Eur J Pharm Biopharm 2007 **67** (3) 715
Immediate release of poorly soluble drugs from starch-based pellets prepared via extrusion/spheronisation
- Eke J, Achinewhu SC, Sanni L, Barimalaa IS, Maziya-Dixon B, Dixon A// River State University Science & Technology, Dept Food Sci & Technol, Nkpolu, Nigeria
J Food Agric Environ 2007 **5** (3-4) 36
Seasonal variations in the chemical and functional properties of starches from local and improved cassava varieties in high rainfall region of Nigeria
- Fujimura-Ito T, Tanaka Y, Narita M, Isobe Y// Mie Univ, Tsu, Mie 514 8507, Japan
J Jpn Soc Food Sci Technol 2007 **54** (11) 463
Gelatinization of starches inside cotyledon cells separated from *Tutankhamen's* pea (Japanese, English Abstract)

- Grazuleviciene V, Augulis L, Graztlevicius JV, Kapitanovas P, Vedegyte J// Lithuanian Univ Agric, Kaunas, Lithuania
Russ J Appl Chem Eng Tr 2007 **80** (11) 1928
Biodegradable starch, PVA, and peat composites for agricultural use
- Han JA, Lee MJ, Lim ST*// *Korea Univ, Grad Sch Sci & Technol, Seoul 136 701, South Korea
Cereal Chem 2007 **84** (6) 582
Utilization of oxidized and cross-linked corn starches in wheat flour batter
- Khunae P, Tran T, Sirivongpaisal P*// *Prince of Songkla Univ, Fac Agroind, Dept Food Technol, TH-90112 Songkla, Thailand
Starch 2007 **59** (12) 593
Effect of heat-moisture treatment on structural and thermal properties of rice starches differing in amylose content
- Kim SH, Lee BH, Baik MY, Joo MH, Yoo SH*// *Sejong Univ, Dept Food Sci & Technol, 98 Gunja-dong, Gwangjin gu, Seoul 143 747, South Korea
J Food Sci 2007 **72** (9) C471
Chemical structure and physical properties of mung bean starches isolated from 5 domestic cultivars
- Koroteeva DA, Kiseleva VI, Krivandin AV, Shatalova OV, Blaszcak W, Bertoft E, Piyachomkwan K, Yuryev VP*// *Russian Acad Sci, Inst Biochem Phys, Kosygina Str 4, RU-119334 Moscow, Russia
Int J Biol Macromol 2007 **41** (5) 534
Structural and thermodynamic properties of rice starches with different genetic background. Part. 2. Defectiveness of different supramolecular structures in starch granules
- Lafargue D, Pontoire B, Buleon A, Doublier JL, Lourdin D*// *INRA, UR1268, Unite Biopolymeres Interact & Assemblage, rue Geraudiere, FR-44000 Nantes, France
Biomacromolecules 2007 **8** (12) 3950
Structure and mechanical properties of hydroxypropylated starch films
- Mattos RI, Tambelli CE, Donoso JP*, Pawlicka A// *Univ Sao Paulo, IFSC, POB 369, BR-13560-970 Sao Carlos, SP, Brazil
Electrochim Acta 2007 **53** (4) 1461
NMR study of starch based polymer gel electrolytes: Humidity effects
- Morita T, Ito Y, Brown IL, Ando R, Kiriya S// Shizuoka Univ, Fac Agric, Dept Appl Biol Chem, 836 Ohaya, Shizuoka 422 8529, Japan
J AOAC Int 2007 **90** (6) 1628
In vitro and *in vivo* digestibility of native maize starch granules varying in amylose contents
- Muller CMO, Yamashita F, Laurindo JB*// *Univ Fed Santa Catarina, Dept Engn Quim & Engn Alimentos, BR-88040-900 Florianopolis, SC, Brazil
Carbohydr Polym 2008 **72** (1) 82
Evaluation of the effects of glycerol and sorbitol concentration and water activity on the water barrier properties of cassava starch films through a solubility approach
- Nagano T, Tamaki E, Funami T// Kawasaki Univ Med Welfare, Fac Hlth Sci & Technol, Dept Clin Nutr, 288 Matsushima, Kurashiki, Okayama 701 0193, Japan
Carbohydr Polym 2008 **72** (1) 95
Influence of guar gum on granule morphologies and rheological properties of maize starch
- Onitilo MO, Sanni LO, Daniel I, Maziya-Dixon B, Dixon A// Univ Agric, Dept Food Sci & Technol, Abeokuta, Nigeria
J Food Agric Environ 2007 **5** (3-4) 108
Physicochemical and functional properties of native starches from cassava varieties in Southwest Nigeria
- Parulekar Y, Mohanty AK*// *Michigan State Univ, Sch Packaging, 130 Packaging Bldg, East Lansing, MI 48824, USA
Macromol Mater Eng 2007 **292** (12) 1218
Extruded biodegradable cast films from polyhydroxyalkanoate and thermoplastic starch blends: Fabrication and characterization
- Peng G, Xu SM, Peng Y, Wang J*, Zheng LC// *Xinjiang Univ, MoE Key Lab Oil & Gas Fine Chem, CN-830046 Urumqi, Xinjiang, Peoples Rep China
Bioresour Technol 2008 **99** (2) 444
A new amphoteric superabsorbent hydrogel based on sodium starch sulfate
- Prochaska K, Kedziora P, Le Thanh J, Lewandowicz G*// *Agr Univ Poznan, Dept Biotechnol & Food Microbiol, ul Wojska Polskiego 48, PL-60627 Poznan, Poland
Colloid Surface B 2007 **60** (2) 187
Surface activity of commercial food grade modified starches
- Pukkahuta C, Varavinit S*// *Mahidol Univ, Fac Sci, Dept Biotechnol, Rama VI Rd, TH-10400 Bangkok, Thailand
Starch 2007 **59** (12) 624
Structural transformation of sago starch by heat-moisture and osmotic-pressure treatment
- Quiroga CC, Bergenstahl B// Lund Univ, Div Food Technol, PO Box 124, SE-22100 Lund, Sweden
Carbohydr Polym 2008 **72** (1) 151
Phase segregation of amylopectin and β -lactoglobulin in aqueous system
- Ribotta PD, Colombo A, Leon AE, Anon MC// Univ Nacl Cordoba, Fac Ciencias Agropecuarias, CONICET, CC 509, AR-5000 Cordoba, Argentina
Starch 2007 **59** (12) 614
Effects of soy protein on physical and rheological properties of wheat starch
- Sandhu KS, Singh N, Lim ST// Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, Punjab, India
J Food Sci Technol Mysore 2007 **44** (6) 565
Functional properties of normal, waxy and sugary corn starches
- Shishonok MV, Litvyak VV, Murashko EA, Grinyuk EV, Sal'nikov LI, Roginets LP, Krul' LP// Belarusian State Univ, pr Negavismosti 4, BY-220030 Minsk, Belarus
High Energy Chem Engl Tr 2007 **41** (6) 425
Structure and properties of electron-beam irradiated potato starch
- Sodhi NS, Singh N// Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, Punjab, India
J Food Sci Technol Mysore 2007 **44** (6) 572
Characteristics of acid-modified starches prepared from selected rice cultivars of India
- Song SW, Wang C, Pan ZL*, Wang XF*// *Chinese Acad Sci, Inst Chem, Beijing Natl Lab Mol Sci, New Materials Lab, CN-100080 Beijing, Peoples Rep China
J Appl Polym Sci 2008 **107** (1) 418
Preparation and characterization of amphiphilic starch nanocrystals
- Stevenson DG, Jane JL, Inglett GE// USDA/ARS, Natl Ctr Agric Utilization Res, Cereal Prod & Food Sci Res Unit, 1815 Nth University St, Peoria, IL 61604, USA
Cereal Chem 2007 **84** (6) 533
Structure and physicochemical properties of starches from sieve fractions of oat flour compared with whole and pin-milled flour
- Xu Q, Kennedy JF, Liu L*// *Wuhan Univ, Coll Chem & Mol Sci, Dept Polym Sci, CN-430072 Wuhan, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 113
An ionic liquid as reaction media in the ring opening graft polymerization of ϵ -caprolactone onto starch granules
- Yuan ML, Lu ZH, Cheng YQ, Li LT*// *China Agric Univ, Coll Food Sci & Nutr Engn, Box 40, East Campus, 17 Qinghua Dong Lu, CN-100083 Beijing, Peoples Rep China
J Food Eng 2008 **85** (1) 12
Effect of spontaneous fermentation on the physical properties of corn starch and rheological characteristics of corn starch noodle
- Zhang QX, Yu ZZ, Xie XL, Naito K, Kagawa Y// Univ Tokyo, RCAST, Tokyo 153 8505, Japan
Polymer 2007 **48** (24) 7193
Preparation and crystalline morphology of biodegradable starch/clay nanocomposites
- Zhong G, Chen ZD, We YM// Chinese Acad Agric Sci, Inst Food Sci & Technol, CN-100094 Beijing, Peoples Rep China
Int J Food Sci Technol 2007 **42** (12) 1449
Physicochemical properties of lotus (*Nelumbo nucifera* Gaertn.) and kudzu (*Pueraria hirsute* Matsum.) starches

10. Starch-degrading enzymes

- Apinan S, Yujiro I, Hidefumi Y*, Takeshi F, Myllarinen P, Forssell P, Poutanen K// *Tottori Univ, Fac Engr, Dept Biotechnol, 4-101 Minami, Koyama-cho, Tottori 680 8552, Japan
Starch 2007 **59** (11) 543
Visual observation of hydrolyzed potato starch granules by α -amylase with confocal laser scanning microscopy
- Balkan B, Ertan F*// *Trakya Univ, Dept Biol, TR-22080 Edirne, Turkey
Food Technol Biotechnol 2007 **45** (4) 439
Production of α -amylase from *Penicillium chrysogenum* under solid-state fermentation by using some agricultural by-products
- Chen SD, Shen DS, Chen WM, Lo YC, Huang TI, Lin CY, Chang JS*// *Nat'l Cheng Kung Univ, Dept Chem Engr, Tainan 70101, Taiwan
Biotechnol Prog 2007 **23** (6) 1312
Dark hydrogen fermentation from hydrolyzed starch treated with recombinant amylase originating from *Caldimonas taiwanensis* On1
- Sharma V, Rausch KD, Tumbleson ME, Singh V*// *Univ Illinois, Dept Biol & Agric Engr, 1304 West Pennsylvania Ave, Urbana, IL 61801, USA
Starch 2007 **59** (11) 549
Comparison between granular starch hydrolyzing enzyme and conventional enzymes for ethanol production from maize starch with different amylose: amylopectin ratios
- Sun Y, Cai HW, Zheng LM*, Ren FZ, Zhang LD, Zhang HT// *China Agric Univ, Coll Informat & Elect Engr, CN-100083 Beijing, Peoples Rep China
Food Control 2008 **19** (3) 315
Development and characterization of a new amylase type time-temperature indicator

11. Polysaccharides - Microbial

- Casadei MA, Matricardi P, Fabrizi G, Feeney M, Paolicelli P// Univ Roma La Sapienza, Dipt Studi Chim & Tecnol Sostanze Biol Attive, Piazzale Aldo Moro 5, IT-00185 Rome, Italy
Eur J Pharm Biopharm 2007 **67** (3) 682
 Physical gels of a carboxymethyl derivative of scleroglucan: Synthesis and characterization
- De Paula M, Goissis G, Martins VCA// USP, Inst Quim Sao Carlos, Dept Quim & Fis Mol, Lab Bioquim/Biomateriais, BR-13560-970 Sao Paulo, Brazil
J Mater Sci Mater Med 2007 **18** (9) 1683
 Rheological behavior of anionic collagen injectable gels in the presence of rhamosan for plastic surgery applications
- Henni-Silhadi W, Deyme M, Boissonnade MM, Appel M, Le Cerf D, Picton L, Rosilio V*// *Univ Paris-Sud, CNRS UMR 8612 Physicochim Surfaces, 5 rue Jean Baptiste Clement, FR-92296 Chatenay Malabry, France
Pharm Res 2007 **24** (12) 2317
 Enhancement of the solubility and efficacy of poorly water-soluble drugs by hydrophobically-modified polysaccharide derivatives
- Hou XJ, Chen W// Tarim Univ, Coll Agric Engrn, CN-843300 Alar, Xinjiang Prov, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 67
 Optimization of extraction process of crude polysaccharides from wild edible BaChu mushroom by response surface methodology
- Li X, Deng F, Hua Y*, Qiu A, Yang C, Cui S// *Jiangnan Univ, Sch Food Sci & Technol, State Key Lab Food Sci & Technol, 1800 Lihu Ave, CN-214122 Wuxi, Jiangsu Prov, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 160
 Effect of molecular weight of dextran on the phase behavior and microstructure of preheated soy protein/dextran mixtures
- Lillo L, Alarcon J, Cabello G, Aguila S, Alderete JB// Univ Bio-Bio, Fac Ciencias, Dept Ciencias Basicas, Chillan, Chile
Z Naturforsch C 2007 **62** (9-10) 623
 Structural studies of native *Paecilomyces* sp exopolysaccharide
- Ma WJ, Yuan XB*, Kang CS, Su T, Yuan XY, Pu PY, Sheng J// *Tianjin Univ, Sch Materials Sci & Engrn, CN-300072 Tianjin, Peoples Rep China
Carbohydr Polym 2008 **72** (1) 75
 Evaluation of blood circulation of polysaccharide surface-decorated PLA nanoparticles
- Ohta Y, Lee JB, Hayashi K, Fujita A, Park DK, Hayashi T*// *Toyama Univ, Grad Sch Med & Pharmaceut Sci Res, 2630 Sugitani, Toyama 930 0194, Japan
J Agric Food Chem 2007 **55** (25) 10194
 In vivo anti-influenza virus activity of an immunomodulatory acidic polysaccharide isolated from *Cordyceps militaris* grown on germinated soybeans
- Park SW, Choi BS, Song KW, Oh KJ, Lee JW// Pusan Natl Univ, Div Chem Engrn, Pusan, South Korea
Separ Sci Technol 2007 **42** (16) 3537
 Absorption of carbon dioxide into aqueous xanthan gum solution containing monoethanolamine
- Pirog TP, Vysyatskaya NV, Korzh YV// Natl Acad Sci Ukraine, Inst Microbiol & Virol, Zabolotny St 154, UA-252143 Kiev, Ukraine
Microbiology 2007 **76** (6) 698
 Formation of the exopolysaccharide ethapolan by *Acinetobacter* sp IMV B-7005 on a fumarate-glucose mixture
- San Juan A, Ducrocq G, Hlawaty H, Bataille I, Guenin E, Letourneur D*, Feldman LJ// *CHU Xavier Bichat, Inserm U698 Bio-ingn Cardiovasculaire, Bat Inserm, 46 rue Henri Huchard, FR-75577 Paris 18, France
J Biomed Mater Res A 2007 **83A** (3) 819
 Tubular cationic hydrogels as local reservoirs for plasmid DNA
- Sanchez-Medina I, Gerwig GJ, Urshev ZL, Karnerling JP*// *Univ Utrecht, Dept Bioorgan Chem, Bijvoet Ctr, Padualaan 8, NL-3584 CH Utrecht, The Netherlands
Carbohydr Res 2007 **342** (18) 2735
 Structural determination of a neutral exopolysaccharide produced by *Lactobacillus delbrueckii* ssp *bulgaricus* LBB.B332
- Souguir Z, Roudesli S, Picton EL, Le Cerf D, About-Jaudet E*// *Univ Rouen, CNRS UMR 6522, FR-76821 Mont St Aignan, France
Eur Polym J 2007 **43** (12) 4940
 Novel cationic and amphiphilic pullulan derivatives I: Synthesis and characterization
- Beltran O, De Pinto GL, Rincon F, Picton L, Cozic C, Le Cerf D, Muller G// Univ Zulia, Fac Humanidades & Educacion, Ctr Invest Quim Prod Naturales, Apdo 526, Maracaibo, Venezuela
Carbohydr Polym 2008 **72** (1) 88
Acacia macracantha gum as a possible source of arabinogalactan-protein
- Brennan CS, Tudorica CM// Massey Univ, Inst Food Nutr & Human Hlth, Palmerston North, New Zealand
J Food Sci 2007 **72** (9) S659
 Fresh pasta quality as affected by enrichment of nonstarch polysaccharides
- Cardoso MA, Nosedá MD, Fujil MT, Zibetti RGM, Duarte MER*// *Univ Fed Parana, Dept Bioquim & Biol Mol, POB 19046, BR-85131-990 Curitiba, Parana, Brazil
Carbohydr Res 2007 **342** (18) 2766
 Sulfated xylomannans isolated from red seaweeds *Chondrophycus papillosus* and *C. flagelliferus* (Ceramiales) from Brazil
- Chen W, Li YM*, Yu MH// *Fudan University, Huashan Hospital, Dept Endocrinol, 12 Wu Lu Mu Qi Zhong Rd, CN-200040 Shanghai, Peoples Rep China
J Int Med Res 2007 **35** (6) 873
 Effects of *Astragalus* polysaccharides on chymase, angiotensin-converting enzyme and angiotensin II in diabetic cardiomyopathy in hamsters
- Choi AJ, Kim CJ, Cho YJ, Kim Y, Cha JY, Hwang JK, Kim IH, Kim CT*// *Korea Food Res Inst, Food Nano-Biotechnol Res Grp, Songnam 463 746, Gyeonggi, South Korea
Food Sci Biotechnol 2007 **16** (6) 928
 Characterization of polysaccharides obtained from purslane (*Portulaca oleracea* L.) using different solvents and enzymes
- Ciancia M, Quintana I, Vizcarguenaga MI, Kasulin L, De Dios A, Estevez JM, Cerezo AS// Universidad Buenos Aires, Facultad Agronomia, Departamento Biol Appl & Alimentos, Avenida San Martin 4453, AR-1417 Buenos Aires, DF, Argentina
Int J Biol Macromol 2007 **41** (5) 641
 Polysaccharides from the green seaweeds *Codium fragile* and *C. vermilara* with controversial effects on hemostasis
- Elkhalifa AEO, Mohammed AM, Mustafa MA, El Tinay AH// Ahfad Univ Women, Sch Family Sci, Omdurman, Sudan
Food Sci Technol Res 2007 **13** (4) 327
 Use of guar gum and gum Arabic as bread improvers for the production of bakery products from sorghum flour
- Fuguet E, Van Platerink C, Janssen HG// CID - Consejo Superior Investigaciones Cientificas, Inst Invest Quim & Ambientales, C/ Jordi Girona 18-26, ES-08034 Barcelona, Spain
Anal Chim Acta 2007 **604** (1) 45
 Analytical characterisation of glutardialdehyde cross-linking products in gelatine-gum arabic complex coacervates
- Guadalupe Z, Ayestaran B// Univ La Rioja, Dept Agric & Food Sci, C/ Madre de Dios 51, ES-26006 Logrono, Spain
J Agric Food Chem 2007 **55** (26) 10720
 Polysaccharide profile and content during the vinification and aging of Tempranillo red wines
- Guo TT, Xu HL, Zhang LX, Zhang HP, Guo YF, Gu JW, He PM*// *Shanghai Fisheries Univ, Dept Aqua-Life Sci & Technol, CN-200090 Shanghai, Peoples Rep China
Regul Toxicol Pharmacol 2007 **49** (2) 101
 In vivo protective effect of *Porphyra yezoensis* polysaccharide against carbon tetrachloride induced hepatotoxicity in mice
- Habibi Y, Heux L, Mahrouz M, Vignon MR// Inst Natl Agron Paris Grignon, Ecole Francaise Papeterie & Ind Graphiques, BP 65, FR-38402 St-Martin d'Heres, France
Carbohydr Polym 2008 **72** (1) 102
 Morphological and structural study of seed pericarp of *Opuntia ficus-indica* prickly pear fruits
- Hozova B, Kuniak L, Moravcikova P, Gajdosova A// Slovak Tech Univ Bratislava, Fak Chem Potravinarkej Technol, Ustav Biochem Vyzivy Ochrany Zdravia, SK-81237 Bratislava, Slovakia
Czech J Food Sci 2007 **25** (6) 316
 Determination of water-insoluble β -D-glucan in the whole-grain cereals and pseudocereals
- Icoz DZ, Kokini JL*// *Rutgers University, Cook College, Department Food Science, Ctr Advanced Food Technol, 65 Dudley Rd, New Brunswick, NJ 08901, USA
Carbohydr Polym 2008 **72** (1) 52
 Theoretical analysis of predictive miscibility of carbohydrate polymers - Software calculations for inulin-amylopectin systems
- Moritaka H, Takahashi M, Kubota K// Showa Women's Univ, Dept Food Sci & Nutr, 1-7 Taishido, Setagaya ku, Tokyo 154 8533, Japan
Food Sci Technol Res 2007 **13** (4) 345
 Effects of cooling rate and sodium chloride on polysaccharide gelation

12. Polysaccharides - Plant

- Murata Y, Jinno D, Liu DC, Isobe T, Kofuji K, Kawashima S// Hokuriku Univ, Fac Pharmaceut Sci, Ho-3 Kanagawa machi, Kanazawa, Ishikawa 920 1181, Japan
Molecules 2007 **12** (11) 2559
The drug release profile from calcium-induced alginate gel beads coated with an alginate hydrolysate
- Neyrinck AM, Mouson A, Delzenne NM// *Univ Catholique Louvain, Sch Pharm, Unit Pharmacokinet Metab Nutr & Toxicol - PMNT 7369, 73 Ave Mounier, BE-1200 Brussels, Belgium
Int Immunopharmacol 2007 **7** (12) 1497
Dietary supplementation with laminarin, a fermentable marine β (1-3) glucan, protects against hepatotoxicity induced by LPS in rat by modulating immune response in the hepatic tissue
- Nowak B, Von Mueffling T, Grotheer J, Klein G, Watkinson BM// Univ Veterinary Med Hannover, Inst Food Qual & Food Safety, Bischofsholer Damm 15, DE-30173 Hannover, Germany
J Food Sci 2007 **72** (9) S629
Energy content, sensory properties, and microbiological shelf life of German bologna-type sausages produced with citrate or phosphate and with inulin as fat replacer
- Nunamaker EA, Purcell EK, Kipke DR// Univ Michigan, Dept Biomed Engr, Ann Arbor, MI 48109, USA
J Biomed Mater Res A 2007 **83A** (4) 1128
In vivo stability and biocompatibility of implanted calcium alginate disks
- Podkorytova AV, Vafina LH, Kovaleva EA, Mikhailov VI// Russian Fed Res Inst Fisheries & Oceanog - VNIRO, Moscow, Russia
J Appl Phycol 2007 **19** (6) 827
Production of algal gels from the brown alga, *Laminaria japonica* Aresch. and their biotechnological applications
- Qiu Y, Hu YL, Cui BA*, Zhang HY, Kong XF, Wang DY, Wang YG// *Henan Agric Univ, Coll Anim Husbandry & Veterinary Med, CN-450002 Zhengzhou, Peoples Rep China
Poult Sci 2007 **86** (12) 2530
Immunopotentiating effects of four Chinese herbal polysaccharides administered at vaccination in chickens
- Ronkart SN, Blecker CS, Fourmanoir H, Fougnyes C, Deroanne C, Van Herck JC, Paquot M// Gembloux Agric Univ, Dept Ind Biol Chem, Passage Deportes 2, BE-5030 Gembloux, Belgium
Anal Chim Acta 2007 **604** (1) 81
Isolation and identification of inulooligosaccharides resulting from inulin hydrolysis
- Sen M, Yolacan B, Guven G// Hacettepe Univ, Dept Chem, TR-06532 Ankara, Turkey
Nucl Instrum Methods Phys Res B 2007 **265** (1) 429
Radiation-induced degradation of galactomannan polysaccharides
- Siepmann F, Muschert S, Zach S, Leclercq B, Carlin B, Siepmann J// *Universite Lille, Coll Pharm, JE 2491, 3 rue Professeur Laguesse, FR-59006 Lille, France
Biomacromolecules 2007 **8** (12) 3984
Carrageenan as an efficient drug release modifier for ethyl cellulose-coated pharmaceutical dosage forms
- Wang Y, Yan T, Shen J, Guo H// Nanjing Univ Traditional Chinese Med, First Coll Clin Med, 138 Xianlin Ave, CN-210046 Univ Town Xianlin, Nanjing, Peoples Rep China
J Ethnopharmacol 2007 **114** (2) 246
Preventive effect of *Ophiopogon japonicus* polysaccharides on an autoallergic mouse model for Sjogren's syndrome by regulating the Th1/Th2 cytokine imbalance
- Watanabe J, Kashii M, Hirao M, Oka K, Sugamoto K, Yoshikawa H, Akashi M// *Osaka Univ, Grad Sch Engr, Dept Appl Chem, 2-1 Yamada-oka, Osaka 565 0871, Japan
J Biomed Mater Res A 2007 **83A** (3) 845
Quick-forming hydroxyapatite/agarose gel composites induce bone regeneration
- Yang XB, Zhao Y, Zhou YJ, Lv Y, Mao JL, Zhao P// Shaanxi Normal Univ, Coll Life Sci, MoE Key Lab Med Plant Resource & Pharm Chem, CN-710062 Xian, Peoples Rep China
Biol Pharm Bull 2007 **30** (10) 1884
Component and antioxidant properties of polysaccharide fractions isolated from *Angelica sinensis* (Oliv.) Diels
- Andreozi P, Mesa C*, Masci G, Suber L// *Univ Roma La Sapienza, Dipt Chim, Piazzale A Moro 5, IT-00185 Rome, Italy
J Phys Chem C 2007 **111** (49) 18004
Formation and physicochemical characterization of silica-based blackberry-like nanoparticles capped by polysaccharides
- Berdal M, Appelbom HI, Eikrem JH, Lund A, Zykova S, Busund LT, Seljelid R, Jenssen T// Univ Tromso, Inst Clin Med, Tromso, Norway
Wound Repair Regen 2007 **15** (6) 825
Aminated β -1,3-D-glucan improves wound healing in diabetic db/db mice
- Callone E, Carturan G, Ischia M, Sicurelli A// Univ Trento, Dept Materials Engr & Ind Technol, IT-38050 Trento, Italy
J Mater Res 2007 **22** (12) 3344
Size stabilization of nanoparticles by polysaccharides: Effectiveness in the wet and curing steps
- Ho J, Hruza G// 930 NW 12th Ave 220, Portland, Or 97209, USA
Dermatol Surg 2007 **33** (12) 1430
Hydrophilic polymers with potassium salt and microporous polysaccharides for use as hemostatic agents
- Kaputskii FN, Torgashov VI, Yurkshtovich TL, Golub NV, Ostrovskaya IL, Alinovskaya VA// Belarusian State Univ, Res Inst Physicochem Problems, BY-220050 Minsk, Byelarus
Russ J Appl Chem Eng Tr 2007 **80** (10) 1745
Sulfation of polysaccharides with sodium pyrosulfate in dimethyl sulfoxide
- Lamprecht A, Ubrich N, Maincent P// Univ Franche Comte, Fac Med & Pharm, Lab Pharmaceut Engr, Pl St Jacques, FR-25000 Besancon, France
Eur J Pharm Biopharm 2007 **67** (3) 632
Oral low molecular weight heparin delivery by microparticles from complex coacervation
- Laroui H, Grossin L, Leonard M, Stoltz JF, Gillet P, Netter P, Dellacherie E// *INPL, CNRS UMR 7568, Lab Chim Phys Macromol, BP 20451, FR-54001 Nancy, France
Biomacromolecules 2007 **8** (12) 3879
Hyaluronate-covered nanoparticles for the therapeutic targeting of cartilage
- Lee H, Jeong Y, Park TG// *Korea Adv Inst Sci & Technol, Dept Biol Sci, Taejon 305 701, South Korea
Biomacromolecules 2007 **8** (12) 3705
Shell cross-linked hyaluronic acid/polylysine layer-by-layer polyelectrolyte microcapsules prepared by removal of reducible hyaluronic acid microgel cores
- Libjakova L, Bystricky S, Lizicarova I, Paulovicova E, Machova E// Slovak Acad Sci, Inst Chem, Dubravska cesta 9, SK-84538 Bratislava, Slovakia
J Pharm Biomed Anal 2007 **45** (3) 521
Evaluation of different mannan polysaccharide usage in enzyme-linked immunosorbent assay for specific antibodies determination
- Maleki A, Kjoniksen AL*, Nystrom B// *Univ Oslo, Dept Chem, POB 1033, NO-0315 Oslo, Norway
Carbohydr Res 2007 **342** (18) 2776
Characterization of the chemical degradation of hyaluronic acid during chemical gelation in the presence of different cross-linker agents
- Myers SR, Partha VN, Soranzo C, Price RD, Navsaria HA// *Queen Mary Univ London, Barts & London Sch Med & Dent, Cell & Tissue Engr Grp, Ctr Cutaneous Res, London E1 2AT, England
Tissue Eng 2007 **13** (11) 2733
Hyalomatrix: A temporary epidermal barrier, hyaluronan delivery, and neodermis induction system for keratinocyte stem cell therapy
- Sikora M, Kowalski S, Krystynjan M, Krawontka J, Sady M// Univ Agric, Dept Carbohydrate Technol, ul Balicka 122, PL-30149 Krakow, Poland
J Food Qual 2007 **30** (5) 682
Optimization of cornstarch/xanthan gum content for thickening of cocoa syrups
- Sriamornsak P, Kennedy RA// *Silpakorn Univ, Fac Pharm, Dept Pharmaceut Technol, TH-73000 Nakhon Pathom, Thailand
Eur J Pharm Sci 2007 **32** (3) 231
Effect of drug solubility on release behavior of calcium polysaccharide gel-coated pellets
- Uzawa H, Ito H, Neri P, Mori H, Nishida Y// Natl Inst Adv Ind Sci & Technol, Res Ctr Adv Bion, Tsukuba Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305 8565, Japan
ChemBiochem 2007 **8** (17) 2117
Glycochips from polyanionic glycopolymers as tools for detecting Shiga toxins
- Yoon WB, Gunasekaran S// *Univ Wisconsin, Dept Biol Syst Engr, Food & Bioproc Engr Lab, Madison, WI 53706, USA
Food Sci Biotechnol 2007 **16** (6) 954
Evaluation of structure development of xanthan and carob bean gum mixture using non-isothermal kinetic model
- Yoon WB, Gunasekaran S// *Address as above
Food Sci Biotechnol 2007 **16** (6) 1069
Determination of frequency independent critical concentration of xanthan and carob mixed gels

13. Polysaccharides - Other

- Al-Assaf S, Phillips GO, Williams PA, Du Plessis TA// NE Wales Inst, Glyn O Phillips Hydrocolloids Research Centre, Mold Road, Wrexham LL11 2AW, Wales
Nucl Instrum Methods Phys Res B 2007 **265** (1) 37
Application of ionizing radiations to produce new polysaccharides and proteins with enhanced functionality