



Bibliography of carbohydrate polymers

(6 weeks journals. Search completed at 31st. Dec. 2008)

1. Reviews

- Carere CR, Sparling R, Cicek N, Levin DB// *Univ Manitoba, Dept Biosystems Engn, Winnipeg, Manitoba, Canada R3T 5V6
Int J Mol Sci 2008 **9** (7) 1342
Third generation biofuels via direct cellulose fermentation
Ding SY, Xu Q, Crowley M, Zeng Y, Nimlos M, Lamed R, Bayer EA, Himmel ME// National Renewable Energy Lab, Chem & Biosci Ctr, Golden, Co 80401, USA
Curr Opin Biotechnol 2008 **19** (3) 218
A biophysical perspective on the cellulosome: New opportunities for biomass conversion
Funasaki N, Ishikawa S, Neya S// Kyoto Pharmaceut Univ, Yamashina ku, Kyoto 607 8414, Japan
Pure Appl Chem 2008 **80** (7) 1511
Advances in physical chemistry and pharmaceutical applications of cyclodextrins
Hamman JH// Tshwane Univ Technol, Dept Pharmaceut Sci, Private Bag X680, ZA-0001 Pretoria, Rep Sth Africa
Molecules 2008 **13** (8) 1599
Composition and applications of *Aloe vera* leaf gel
Li B, Lu F, Wei XJ, Zhao RX// Henan Inst Sci & Technol, Sch Food Sci, CN-453003 Xinxiang, Henan, Peoples Rep China
Molecules 2008 **13** (8) 1671
Fucoidan: Structure and bioactivity
Park S, Lee MR, Shin I// *Yonsei Univ, Dept Chem, Seoul 120 749, South Korea
Chem Soc Rev 2008 **37** (8) 1579
Chemical tools for functional studies of glycans
Scriba GKE// Univ Jena, Sch Pharm, Dept Pharmaceut Chem, Philosophenweg 14, Jena, Germany
J Sep Sci 2008 **31** (11) 1991
Cyclodextrins in capillary electrophoresis enantioseparations - Recent developments and applications
Simkovic I// Slovak Acad Sci, Inst Chem, Dubravska cesta 9, SK-84538 Bratislava, Slovakia
Carbohydr Polym 2008 **74** (4) 759
What could be greener than composites made from polysaccharides?
Teramoto N, Sachinvala ND, Shibata M// Chiba Inst Technol, Fac Engn, Dept Life & Environm Sci, 2-17-1 Tsudanuma, Chiba 275 0016, Japan
Molecules 2008 **13** (8) 1773
Trehalose and trehalose-based polymers for environmentally benign, biocompatible and bioactive materials

2. Cellulose

- Aaltonen O, Jauhiainen O// VTT Process Chemistry, PO Box 1000, FI-02044 VTT, Finland
Carbohydr Polym 2009 **75** (1) 125
The preparation of lignocellulosic aerogels from ionic liquid solutions
Abdel-Halim ES, Emam HE, El-Rafie MH// Nat Res Ctr, Textile Res Div, Dokki, Cairo, Egypt
Carbohydr Polym 2008 **74** (4) 783
Preparation and characterization of water soluble poly(acrylic acid)-hydroxypropyl cellulose composite

- Abdel-Halim ES, Emam HE, El-Rafie MH// Nat Res Ctr, Textile Res Div, El-bohoos St, Giza, Egypt
Carbohydr Polym 2008 **74** (4) 938
Utilization of hydroxypropyl cellulose and poly (acrylic acid)-hydroxypropyl cellulose composite as thickeners for textile printing
Agbogbo FK, Coward-Kelly G// Mascoma Corporation, 16 Cavendish Court, Lebanon, NH 03766, USA
Biotechnol Lett 2008 **30** (9) 1515
Cellulosic ethanol production using the naturally occurring xylose-fermenting yeast, *Pichia stipitis*
Boufi S, Vilar MR*, Parra V, Ferraria AM, Do Rego AMB// *Univ Sfax, Fac Sci Sfax, Lab Sci Materiaux & Environm, Sfax, Tunisia
Langmuir 2008 **24** (14) 7309
Grafting of porphyrins on cellulose nanometric films
Bui HM, Ehrhardt A, Bechtold T// *Univ Innsbruck, Res Inst Textile Chem & Textile Phys, Christian Doppler Lab Textile & Fibre Chem Cellulosics, AT-6850 Dornbirn, Austria
J Appl Polym Sci 2008 **109** (6) 3696
Pilling in cellulosic fabrics, Part 2: A study on kinetics of pilling in alkali-treated lyocell fabrics
Cai Z, Kim J// *Inha Univ, Dept Mech Engn, Ctr EAPap Actuator, 253 Yonghyun dong, Nam gu, Incheon 402 751, South Korea
J Appl Polym Sci 2008 **109** (6) 3689
Characteristics and performance of electroactive paper actuator made with cellulose/polyurethane semi-interpenetrating polymer networks
Chang CY, Lue A, Zhang L// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Macromol Chem Phys 2008 **209** (12) 1266
Effects of crosslinking methods on structure and properties of cellulose/PVA hydrogels
Cherian BM, Pothen LA*, Nguyen-Chung T, Mennig G, Kottaisamy M, Thomas S// *Bishop Moore Coll, Post Grad Dept Chem, IN-690110 Mavelikara, Kerala, India
J Agric Food Chem 2008 **56** (14) 5617
A novel method for the synthesis of cellulose nanofibril whiskers from banana fibers and characterization
Cuba-Chiem LT, Huynh L, Ralston J, Beattie DA// *Univ Sth Australia, Ian Wark Res Inst, Adelaide, SA 5095, Australia
Langmuir 2008 **24** (15) 8036
In situ particle film ATR FTIR spectroscopy of carboxymethyl cellulose adsorption on talc: Binding mechanism, pH effects, and adsorption kinetics
Deshpande MD, Scheicher RH*, Ahuja R, Pandey R// *Michigan Technol Univ, Dept Phys, Houghton, MI 49931, USA
J Phys Chem B 2008 **112** (30) 8985
Binding strength of sodium ions in cellulose for different water contents
Dogan H, Hilmioglu ND// TUBITAK Marmara Res Ctr, Chem & Environm Inst, PK 21, TR-41470 Gebze-Kocaeli, Turkey
Carbohydr Polym 2009 **75** (1) 90
Dissolution of cellulose with NMMO by microwave heating
Fadnis C, Illiger SR, Rao KP, Demappa T// *Univ Mysore, Dept Post-Grad Studies & Res Polym Sci, Sir MVPG Ctr, IN-571402 Tubinakere, Mandya, Karnataka, India
Carbohydr Polym 2008 **74** (4) 779
Miscibility studies of HPMC/PVA blends in water by viscosity, density, refractive index and ultrasonic velocity method

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.

- Felby C, Thygesen LG, Kristensen JB, Jorgensen H, Elder T// Univ Copenhagen, Fac Life Sci, Ctr Forest & Landscape, Rolighedsvej 23, DK-1958 Frederiksberg C, Denmark
Cellulose 2008 **15** (5) 703
Cellulose-water interactions during enzymatic hydrolysis as studied by time domain NMR
- Fidale LC, Ruiz N, Heinze T, El Seoud OA// *Univ Sao Paulo, Inst Quim, CP 26077, BR-05513-970 Sao Paulo, Brazil
Macromol Chem Phys 2008 **209** (12) 1240
Cellulose swelling by aprotic and protic solvents: What are the similarities and differences?
- Goetz L, Mathew A, Oksman K, Gatenholm P, Ragauskas AJ// *Georgia Inst Technol, Sch Chem & Biochem, Inst Paper Sci & Technol, 500 10th St NW, Atlanta, Ga 30332, USA
Carbohydr Polym 2009 **75** (1) 85
A novel nanocomposite film prepared from crosslinked cellulosic whiskers
- Gomez-Diaz D, Navaza JM, Quintans-Riveiro LC// Univ Santiago de Compostela, ETSE, Dept Chem Engr, Rua St Lope Gomez de Marzoa s/n, ES-15782 Santiago de Compostela, Spain
Eur Food Res Technol 2008 **227** (5) 1397
Influence of mixing and temperature on the rheological properties of carboxymethyl cellulose/K-carrageenan mixtures
- Halamus T, Wojciechowski P, Bobowska I// Tech Univ Lodz, Dept Mol Phys, ul Zeromskiego 116, PL-90924 Lodz, Poland
Polym Adv Technol 2008 **19** (7) 807
Synthesis and characterization of (hydroxypropyl)cellulose/TiO₂ nanocomposite films
- Hou A, Wang X, Wu L// Donghua Univ, Nat Engr Res Ctr Dyeing & Finishing Textiles, 2999 Nth Renmin Rd, Songjiang, CN-201620 Shanghai, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 934
Effect of microwave irradiation on the physical properties and morphological structures of cotton cellulose
- Ishida M, Abe K, Hashizume M, Kawamura M// Eisai & Co Ltd, Department Formulation Research Laboratories, 2-3-14 Minami, Honjo shi, Saitama 367 0048, Japan
Int J Pharm 2008 **359** (1-2) 46
A novel approach to sustained pseudoephedrine release: Differentially coated mini-tablets in HPMC capsules
- Janzon R, Puls J, Bohn A, Potthast A, Saake B// *vTI, Inst Wood Technol & Wood Biol, DE-21031 Hamburg, Germany
Cellulose 2008 **15** (5) 739
Upgrading of paper grade pulps to dissolving pulps by nitren extraction: Yields, molecular and supramolecular structures of nitren extracted pulps
- Joshi SC, Lam YC, Bin C// Nanyang Technol Univ, Sch Med & Aerospace Engr, SG-689798 Singapore, Rep Singapore
E Polymers 2008 101
Modelling leading to water entrapment point in thermally driven hydrogelation of methyl cellulose
- Kadokawa J, Murakami M, Takegawa A, Kaneko Y// Kagoshima Univ, Grad Sch Sci & Engr, Dept Nano-structured & Advanced Materials, Korimoto, Kagoshima 890 0065, Japan
Carbohydr Polym 2009 **75** (1) 180
Preparation of cellulose-starch composite gel and fibrous material from a mixture of the polysaccharides in ionic liquid
- Kamitakahara H, Koschella A, Mikawa Y, Nakatsubo F, Heinze T, Klemm D// *Univ Jena, Transfer Grp POLYMET, Technol Innovationspark, Wildenbruchstr 15, DE-07745 Jena, Germany
Macromol Biosci 2008 **8** (7) 690
Syntheses and comparison of 2,6-di-O-methyl celluloses from natural and synthetic celluloses
- Keshk SMAS// Ain Shams Univ, Inst Environm Studies & Res, Basic Sci Dept, EG-11566 Abbasia, Cairo, Egypt
Carbohydr Polym 2008 **74** (4) 942
Homogenous reactions of cellulose from different natural sources
- Knyazeva NV, Kon'shin VV, Chemeris NA, Chemeris MM// Polzunov Altai State Tech Univ, Barnaul, Russia
Russ J Appl Chem Engr 2008 **81** (6) 1087
Synthesis of cellulose esters with aliphatic hydroxy acids from aspen wood
- Kuang QL, Zhao JC, Niu YH, Zhang J, Wang ZG// *Chinese Acad Sci, Inst Chem, Beijing Natl Lab Mol Sci, CAS Key Lab Engrn Plastics, CN-100190 Beijing, Peoples Rep China
J Phys Chem B 2008 **112** (33) 10234
Celluloses in an ionic liquid: The rheological properties of the solutions spanning the dilute and semidilute regimes
- Kuznetsov BN, Taraban'ko VE, Kuznetsova SA// Russian Acad Sci, Siberian Branch, Inst Chem & Chem Technol, RU-660049 Krasnoyarsk, Russia
Kinet Catal Engr Tr 2008 **49** (4) 517
New catalytic methods for obtaining cellulose and other chemical products from vegetable biomass
- Leone G, Fini M, Torricelli P, Giardino R, Barbucci R// *Univ Siena, Dept Chem & Biosystems Sci, IT-53100 Siena, Italy
J Mater Sci Mater Med 2008 **19** (8) 2873
An amidated carboxymethylcellulose hydrogel for cartilage regeneration
- Leone G, Torricelli P, Giardino R, Barbucci R// *Univ Siena, Dept Chem & Biosystems Sci & Technol, Via Aldo Moro, IT-53100 Siena, Italy
Polym Adv Technol 2008 **19** (7) 824
New phosphorylated derivatives of carboxymethylcellulose with osteogenic activity
- Lindqvist J, Nystrom D, Ostmark E, Antoni P, Carlmark A, Johansson M, Hult A, Malmstrom E// *KTH Royal Inst Technol, Sch Chem Sci & Engr, Dept Fibre & Polymer Technol, Tekniskringen 56-58, SE-10044 Stockholm, Sweden
Biomacromolecules 2008 **9** (8) 2139
Intelligent dual-responsive cellulose surfaces via surface-initiated ATRP
- Mastiholmath VS, Dandagi AP, Gadad AP, Mathews R, Kulkarni AR// KLES Coll Pharm, Dept Pharmaceut, JNM C Campus, Nehru Nagar, IN-590010 Belgaum, India
J Microencapsul 2008 **25** (5) 307
In vitro and *in vivo* evaluation of ranitidine hydrochloride ethyl cellulose floating microparticles
- Medeiros ES, Mattoso LHC, Bernardes-Filho R, Wood DF, Orts WJ// *USDA, Western Reg Res Ctr, Bioproduct Chem & Engr Unit, 800 Buchanan St, Albany, Ca 94710, USA
Colloid Polym Sci 2008 **286** (11) 1265
Self-assembled films of cellulose nanofibrils and poly(*o*-ethoxyaniline)
- Meireles CD, Rodrigues G*, De Assuncao RMN, Cerqueira DA, Zeni M, Mello K, Lorenzi S// *Univ Fed Uberlandia, Inst Quim, Av Joao Naves Avila 2121, CxP 593, BR-38400-902 Uberlandia, MG, Brazil
Polym Eng Sci 2008 **48** (8) 1443
Production and characterization of membranes of recycled waste materials: Cellulose acetate, obtained from sugarcane bagasse with polystyrene from plastic cups
- Miroshnik LV, Korovnikova NI, Aleksandrov AV, Dubyna AM// Kharkov Natl Univ, Kharkov, Ukraine
Russ J Phys Chem 2008 **82** (9) 1484
The influence of cellulose complexite swelling on its protolytic properties in aqueous-organic mixtures
- Mostashari SM, Moafi HF// Gilan Univ, Chem Grp, POB 1914, Rasht, Iran
J Therm Anal Calorim 2008 **93** (2) 589
Thermal decomposition pathway of a cellulosic fabric impregnated by magnesium chloride hexahydrate as a flame-retardant
- Mosur PM, Chernoberezhskii YM, Lorentsson AV// St Petersburg State Technol Univ, Plant Polymers, ul Ivana Chernykh 4, RU-198095 St Petersburg, Russia
Colloid J Engr Tr 2008 **70** (4) 462
Electrosurface properties of microcrystalline cellulose dispersions in aqueous solutions of aluminium chloride, nitrate and sulfate
- Mussatto SI, Dragone G, Fernandes M, Milagres AMF, Roberto IC// Univ Minho, Dept Engr Biol, Campus Gualtar, PT-4710-057 Braga, Portugal
Cellulose 2008 **15** (5) 711
The effect of agitation speed, enzyme loading and substrate concentration on enzymatic hydrolysis of cellulose from brewer's spent grain
- Necula AM, Olaru N, Olaru L, Ioan S// *Petru Poni Inst Macromol Chem, Grigore Ghica Voda Alley 41A, RO-700487 Iasi, Romania
J Macromol Sci Phys 2008 **47** (5) 913
Influence of the substitution degree on the dilute solution properties of cellulose acetate
- Omran A, Simon LC, Rostami AA// Univ Mazandaran, Fac Chem, POB 453, Babol Sar, Iran
Mater Sci Eng A Struct Mater 2008 **490** (1-2) 131
Influences of cellulose nanofiber on the epoxy network formation
- Pandey JK, Lee JW, Chu WS, Kim CS, Ahn SH// *Seoul Natl Univ, Sch Mech & Aerospace Engr, Seoul 151 742, South Korea
Macromol Res 2008 **16** (5) 396
Cellulose nano whiskers from grass of Korea
- Peng F, Ren JL, Sun XF, Xu F, Sun RC, Peng B, Sun JX// Sth China Univ Technol, State Key Lab Pulp & Paper Engr, Guangzhou, Guangdong, Peoples Rep China
E Polymers 2008 108
Rapid phthaloylation and succinylation of hemicelluloses by microwave irradiation
- Prasad P, Guru GS, Shivakumar HR*, Rai KS// *KVG Coll Engrn, Dept Chem, Sullia, Karnataka, India
J Appl Polym Sci 2008 **110** (1) 444
Miscibility, thermal, and mechanical studies of hydroxypropyl methylcellulose/pullulan blends
- Rusli R, Eichhorn SJ// *Univ Manchester, Sch Materials, Materials Sci Ctr, Grosvenor St, Manchester M1 7HS, England
Appl Phys Lett 2008 **93** (3) 33111
Determination of the stiffness of cellulose nanowhiskers and the fiber-matrix interface in a nanocomposite using Raman spectroscopy

- Sakai S, Ito S, Ogushi Y, Hashimoto I, Kawakami K// Kyushu Univ, Fac Engn, Dept Chem Engn, 744 Motoooka, Nishi ku, Fukuoka 819 0395, Japan
Cellulose 2008 **15** (5) 723
Feasibility of carboxymethylcellulose with phenol moieties as a material for mammalian cell-enclosing subsieve-size capsules
- Sakakibara K, Nakatsubo F// *Kyoto Univ, Grad Sch Agric, Div Forest & Biomaterials Sci, Kitashirakawa Oiwake cho, Sakyo ku, Kyoto 606 8502, Japan
Macromol Chem Phys 2008 **209** (12) 1274
Effect of fullerene on photocurrent performance of 6-*O*-porphyrin-2,3-di-*O*-stearoylcellulose Langmuir-Blodgett films
- Sangappa, Demappa T, Mahadevaiah, Ganesh S, Divakara S, Somashekar R// Mangalore Univ, Dept Studies Phys, IN-574199 Mangalagangothri, India
J Appl Polym Sci 2008 **109** (6) 3983
Microstructural parameters in electron-irradiated hydroxypropyl methylcellulose films using X-ray line profile analysis
- Sangsuwan J, Rattanapanone N*, Rachtanapun P// *Chiang Mai Univ, Fac Agroind, Dept Food Sci & Technol, TH-50100 Chiang Mai, Thailand
J Appl Polym Sci 2008 **109** (6) 3540
Effects of vanillin and plasticizer on properties of chitosan-methyl cellulose based film
- Sangsuwan J, Rattanapanone N, Rachtanapun P// Chiang Mai Univ, Postharvest Technol Inst, TH-50200 Chiang Mai, Thailand
Postharvest Biol Technol 2008 **49** (3) 403
Effect of chitosan/methyl cellulose films on microbial and quality characteristics of fresh-cut cantaloupe and pineapple
- Selvakumar M, Bhat DK// *Natl Inst Technol Karnataka Surathkal, Dept Chem, IN-575025 Srinivasnagar, India
J Appl Polym Sci 2008 **110** (1) 594
LiClO₄-doped cellulose acetate as biodegradable polymer electrolyte for supercapacitors
- Shen W, Chen S, Shi S, Li X, Zhang X, Hu W, Wang H// *Donghua Univ, State Key Lab Modification Chemical Fibers & Polym Materials, 2999 Rinmin Nth Rd, CN-201620 Shanghai, Peoples Rep China
Carbohydr Polym 2009 **75** (1) 110
Adsorption of Cu(II) and Pb(II) onto diethylenetriamine-bacterial cellulose
- Siriviriyun A, O'Rear EA, Yanumet N// *Chulalongkorn Univ, Petroleum & Petrochem Coll, Bangkok, Thailand
Cellulose 2008 **15** (5) 731
Self-extinguishing cotton fabric with minimal phosphorus deposition
- Siroka B, Noisternig M, Griesser UJ, Bechtold T// *Leopold Franzens Univ Innsbruck, Res Inst Textile Chem & Textile Phys, AT-6850 Dornbirn, Austria
Carbohydr Res 2008 **343** (12) 2194
Characterization of cellulosic fibers and fabrics by sorption/desorption
- Song YB, Sun YX, Zhang XZ, Zhou JP*, Zhang LN// *Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Biomacromolecules 2008 **9** (8) 2259
Homogenous quaternization of cellulose in NaOH/urea aqueous solutions as gene carriers
- Su JC, Liu SQ, Joshi SC*, Lam YC// *Nanyang Technol Univ, Sch Med & Aerospace Engn, SG-639798 Singapore, Rep Singapore
J Therm Anal Calorim 2008 **93** (2) 495
Effect of SDS on the gelation of hydroxypropylmethylcellulose hydrogels
- Trombino S, Cassano R*, Bloise E, Muzzalupo R, Tavano L, Picci N// *Univ Calabria, Dept Pharmaceut Sci, IT-87036 Arcavacata di Rende, Cosenza, Italy
Carbohydr Polym 2009 **75** (1) 184
Synthesis and antioxidant activity evaluation of a novel cellulose hydrogel containing *trans*-ferulic acid
- Tsiopstias C, Stefopoulos A, Kokkinomalis I, Papadopoulou L, Panayiotou C// Aristotle Univ Thessaloniki, Dept Chem Engn, GR-54124 Thessaloniki, Greece
Green Chem 2008 **10** (9) 965
Development of micro- and nano-porous composite materials by processing cellulose with ionic liquids and supercritical CO₂
- Vehviläinen M, Kamppuri T, Rom M, Janicki J, Ciechanska D, Gronqvist S, Siika-Aho M, Christofferson KE, Nousiainen P// Tampere Univ Technol, POB 589, FI-33101 Tampere, Finland
Cellulose 2008 **15** (5) 671
Effect of wet spinning parameters on the properties of novel cellulosic fibres
- Vshivkov SA, Rusinova EV// Ural State Univ, pr Lenina 51, RU-620083 Ekaterinburg, Russia
Polym Sci Ser A 2008 **50** (7) 725
Effect of magnetic field on phase transitions in solutions of cellulose derivatives
- Wang Y, Luo Q, Peng B, Pei C// *Southwest Univ Sci & Technol, Sch Material Sci & Engn, CN-621010 Mianyang City, Sichuan Prov, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 875
A novel thermotropic liquid crystalline - benzoylated bacterial cellulose
- Wege HA, Kim S, Paunov VN, Zhong QX*, Velev OD// *Univ Tennessee, Dept Food Sci & Technol, Knoxville, Tn 37996, USA
Langmuir 2008 **24** (17) 9245
Long-term stabilization of foams and emulsions with *in-situ* formed micro-particles from hydrophobic cellulose
- Wu L, Liu MZ// *Lanzhou Univ, Dept Chem, CN-730000 Lanzhou, Peoples Rep China
Polym Adv Technol 2008 **19** (7) 785
Preparation and characterization of cellulose acetate-coated compound fertilizer with controlled-release and water-retention
- Yang LQ, Kuang JL, Li ZQ, Zhang BF, Cai X, Zhang LM// Sun Yat Sen Univ, Sch Chem & Chem Engn, Inst Polymer Sci, CN-510275 Guangzhou, Guangdong, Peoples Rep China
Cellulose 2008 **15** (5) 659
Amphiphilic cholesteryl-bearing carboxymethylcellulose derivatives: Self-assembly and rheological behaviour in aqueous solution
- Yoshida Y, Isogai A*, Tsujii Y// *Univ Tokyo, Grad Sch Agric & Life Sci, 1-1-1 Yayoi, Bunkyo ku, Tokyo 113 8657, Japan
Cellulose 2008 **15** (5) 651
Structural analysis of polymer-brush-type cellulose β -ketoesters by molecular dynamics simulation
- Zampano G, Bertoldo M*, Bronco S// *Univ Pisa, Dipt Chim & Chim Ind, PolyLab CNR-INFN, Via Risorgimento 35, IT-56126 Pisa, Italy
Carbohydr Polym 2009 **75** (1) 22
Poly(ethyl acrylate) surface-initiated ATRP grafting from wood pulp cellulose fibres
- Zemljic LF, Persin Z, Stenius P, Kleinschek KS// Univ Maribor, Fac Mech Engn, Inst Textile Materials & Design, Lab Characterization & Process Polymers, SL-2000 Maribor, Slovenia
Cellulose 2008 **15** (5) 681
Carboxyl groups in pre-treated regenerated cellulose fibres
- Zhao S, Zhang WW, Zhang F, Li B// NE Forestry Univ, Heilongjiang Key Lab Mol Design & Preparation Flame Retarded Materials, CN-150040 Harbin, Peoples Rep China
Polym Bull 2008 **61** (2) 189
Determination of Hansen solubility parameters for cellulose acrylate by inverse gas chromatography
- Zhou J, Xu Y, Qin Y, Zhang LJ// Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 901
Microstructure and aggregation behavior of methylcelluloses prepared in NaOH/urea aqueous solutions
- Zhou RM, Deng BJ, Hao XF, Zhou F, Wu XF, Chen YK// Shanghai Univ, Shanghai Appl Radiat Inst, CN-201800 Shanghai, Peoples Rep China
Radiat Phys Chem 2008 **77** (8) 978
Dynamic rheology behavior of electron beam-irradiated cellulose pulp/NMMA solution
- Zykwinska A, Thibault JF, Ralet MC// *INRA, UR1268 Biopolymers Interactions Assemblages, FR-44300 Nantes, France
Carbohydr Polym 2008 **74** (4) 957
Competitive binding of pectin and xyloglucan with primary cell wall cellulose

3. Cellulose-degrading enzymes

- Ma AZ, Hu Q, Bai ZH, Qu YB, Liu WF, Zhuang GQ// *Chinese Acad Sci, Ecoenvironm Sci Res Ctr, CN-100085 Beijing, Peoples Rep China
World J Microbiol Biotechnol 2008 **24** (10) 2003
Functional display of fungal cellulases from *Trichoderma reesei* on phage M13
- Picart P, Diaz P, Pastor FJ// *Univ Barcelona, Fac Biol, Dept Microbiol, Av Diagonal 645, ES-08028 Barcelona, Spain
Antonie van Leeuwenhoek 2008 **94** (2) 307
Stachybotrys atra BP-A produces alkali-resistant and thermostable cellulases
- Wang LS, Zhang YZ, Gao PJ// *Shandong Univ, State Key Lab Microbial Technol, CN-250100 Jinan, Peoples Rep China
Sci China C Life Sci 2008 **51** (7) 620
A novel function for the cellulose binding module of cellobiohydrolase I

4. Chitin/Chitosan

- Adriano WS, Mendonca DB, Rodrigues DS, Mammarella EJ, Giordano RLC// *Univ Fed Sao Carlos - UFSCAR, Dept Chem Engn, BR-13560 Sao Carlos, SP, Brazil
Biomacromolecules 2008 **9** (8) 2170
Improving the properties of chitosan as support for the covalent multipoint immobilization of chymotrypsin
- Argin-Soysal S, Kofinas P, Lo YM// *Univ Maryland, Dept Nutr & Food Sci, College Park, Md 20742, USA
Food Hydrocolloid 2009 **23** (1) 202
Effect of complexation conditions on xanthan-chitosan polyelectrolyte complex gels
- Boddohi S, Killingsworth CE, Kipper MJ// *Colorado State Univ, Dept Chem & Biol Engn, Fort Collins, Co 80523, USA
Biomacromolecules 2008 **9** (7) 2021
Polyelectrolyte multilayer assembly as a function of pH and ionic strength using the polysaccharides chitosan and heparin

- Bourtoom T, Chinnan MS// *Univ Georgia, Dept Food Sci & Technol, 1109 Experiment St, Griffin, Ga 30223, USA
LWT Food Sci Technol 2008 **41** (9) 1633
Preparation and properties of rice starch-chitosan blend biodegradable film
- Bravo-Osuna I, Vauthier C, Chacun H, Ponchel G// *Univ Paris Sud, Fac Farm, Lab Physiochim Pharmacotech & Biopharm, CNRS UMR 8612, 5 rue JB Clement, FR-92296 Chatenay Malabry, France
Eur J Pharm Biopharm 2008 **69** (2) 436
Specific permeability modulation of intestinal paracellular pathway by chitosan-poly(isobutylcyanoacrylate) core-shell nanoparticles
- Bravo-Osuna I, Vauthier C, Farabolli A, Millotti G, Ponchel G// *Univ Paris Sud, Fac Pharm Pharmacotech & Biopharm, CNRS UMR 8612, Lab Physicochim, 5 rue JB Clement, FR-92296 Chatenay Malabry, France
J Nanopart Res 2008 **10** (8) 1293
Effect of chitosan and thiolated chitosan coating on the inhibition behaviour of PIBCA nanoparticles against intestinal metalloproteinases
- Chen CH, Wang FY, Mao CF, Liao WT, Hsieh CD// Sthn Taiwan Univ, Dept Chem & Mat Engrg, Tainan, Tainan County, Taiwan
Int J Biol Macromol 2008 **43** (1) 37
Studies of chitosan: II. Preparation and characterization of chitosan/poly(vinyl alcohol)/gelatin ternary blend films
- Chen LH, Tianqing LQ// *Yangzhou Univ, Sch Chem & Chem Engrg, CN-25002 Yangzhou, Jiangsu, Peoples Rep China
Int J Biol Macromol 2008 **42** (5) 441
Interaction behaviors between chitosan and hemoglobin
- Da Silva RMP, Mano JF, Reis RL// Univ Minho, Dept Polymer Engrg, 3BS-Biomaterials Biodegradables & Biomimetics, Campus Gualtar, PT-4710-057 Braga, Portugal
Macromol Chem Phys 2008 **209** (14) 1463
Straightforward determination of the degree of *N*-acetylation of chitosan by means of first-derivative UV spectrophotometry
- Dergunov SA, Nam IK, Maimakov TP, Nurkeeva ZS, Shaikhutdinov EM, Mun GA// *Kazakh Natl Univ, Dept Chem Phys & Macromol, KZ-050012 Alma Ata, Kazakhstan
J Appl Polym Sci 2008 **110** (1) 558
Study on radiation-induced grafting of hydrophilic monomers onto chitosan
- Dhananjay SK, Mulimani VH// *Gulbarga Univ, Dept Studies Biochem, IN-585106 Gulbarga, India
J Food Biochem 2008 **32** (4) 521
Optimization of immobilization process on crab shell chitosan and its application in food processing
- Di Mario F, Rapana P, Tomati U, Galli E// *CNR, Ist Bio Agroambientale & Forestale, Area Ric Roma I, Via Salaria km 29300, IT-00016 Monterotondo, RM, Italy
Int J Biol Macromol 2008 **43** (1) 8
Chitin and chitosan from Basidiomycetes
- Dou J, Xu Q, Tan C, Wang W, Du Y*, Bai X, Ma X// *Chinese Acad Sci, Dalian Inst Chem Phys, CN-116023 Dalian, Peoples Rep China
Carbohydr Polym 2009 **75** (1) 119
Effects of chitosan oligosaccharides on neutrophils from glycogen-induced peritonitis mice model
- Einbu A, Varum KM// *Norwegian University Science & Technol, Dept Biotechnol, Norwegian Biopolymer Lab NOBIPO, NO-7491 Trondheim, Norway
Biomacromolecules 2008 **9** (7) 1870
Characterization of chitin and its hydrolysis to GlcNAc and GlcN
- El-Hefiani EA, Khan RA*, Yahaya AH// *Univ Malaya, Fac Sci, Dept Chem, MY-50603 Kuala Lumpur, Malaysia
J Chem Soc Pakistan 2008 **30** (4) 529
Study of the parameters affecting the viscosity of chitosan solutions
- Fan YM, Saito T, Isogai A// *Univ Tokyo, Grad Sch Agric & Life Sci, Dept Biomaterials Sci, Tokyo 113 8657, Japan
Biomacromolecules 2008 **9** (7) 1919
Preparation of chitin nanofibers from squid pen β -chitin by simple mechanical treatment under acid conditions
- Fu GQ, Yu H, Zhu J// Nankai Univ, Inst Polymer Chem, MoE Key Lab Funct Polymers, CN-300071 Tianjin, Peoples Rep China
Biomaterials 2008 **29** (13) 2138
Imprinting effect of protein-imprinted polymers composed of chitosan and polyacrylamide: A re-examination
- Gao Y, Xu ZH, Chen SW, Gu WW, Chen LL, Li YP// *555 Zuchongzhi Rd, CN-201203 Shanghai, Peoples Rep China
Int J Pharm 2008 **359** (1-2) 241
Arginine-chitosan/DNA self-assemble nanoparticles for gene delivery: *In vivo* characteristics and transfection efficiency
- Goktepe F, Celik SU, Bozkurt A// *Fatih Univ, Dept Chem, TR-34500 Istanbul, Turkey
J Non-Cryst Solids 2008 **354** (30) 3637
Preparation and the proton conductivity of chitosan/poly(vinyl phosphonic acid) complex polymer electrolytes
- Gomez-Burgaz M, Garcia-Ochoa B, Torrado-Santiago S// *Univ Complutense Madrid, Fac Farm, Dept Farm & Tecnol Farmaceut, Avda Complutense s/n, ES-28040 Madrid, Spain
Int J Pharm 2008 **359** (1-2) 135
Chitosan-carboxymethylcellulose interpolymer complexes for gastric-specific delivery of clarithromycin
- Hua DB, Deng WC, Tang J, Cheng JX, Zhu XL// Suzhou Univ, Sch Chem & Chem Engrg, Key Lab Organ Synth Jiangsu Province, 199 Renai Rd, CN-215123 Suzhou, Peoples Rep China
Int J Biol Macromol 2008 **43** (1) 43
A new method of controlled grafting modification of chitosan via nitroxide-mediated polymerization using chitosan-TEMPO macroinitiator
- Hwang HY, Kim IS, Kwon IC, Kim YH// *Hanyang Univ, Coll Engrg, Dept Bioengn, Seoul 133 791, South Korea
J Controlled Release 2008 **128** (1) 23
Tumor targetability and antitumor effect of docetaxel-loaded hydrophobically modified glycol chitosan nanoparticles
- Il'ina AV, Varlamov VP, Ermakov YA, Orlov VN, Skryabin KG// Russian Acad Sci, Ctr Bioengn, pr 60 letiya Oktyabrya 7, korp 1, RU-117312 Moscow, Russia
Dokl Chem 2008 **421** (1) 165
Chitosan is a natural polymer for constructing nanoparticles
- Indest T, Laine J, Ribitsch V, Johansson LS, Stana-Kleinschek K, Strnad S// Univ Maribor, Fac Mech Engrg, Lab Characterization & Process Polymers, Smetanova 17, SI-2000 Maribor, Slovenia
Biomacromolecules 2008 **9** (8) 2207
Adsorption of chitosan on PET films monitored by quartz crystal microbalance
- Jayakumar R, Tamura H// *Kansai Univ, Fac Chem Materials & Bioengn, Osaka 564 8680, Japan
Int J Biol Macromol 2008 **43** (1) 32
Synthesis, characterization and thermal properties of chitin-g-poly(ϵ -caprolactone) copolymers by using chitin gel
- Juarez-Jimenez B, Rodelas B, Martinez-Toledo MV, Gonzalez-Lopez J, Crognale S, Gallo AM, Pesciaroli C, Fenice M// *Univ Tuscia, Dipt Agrobiol & Agrochim, IT-01100 Viterbo, Italy
Int J Biol Macromol 2008 **43** (1) 27
Production of chitinolytic enzymes by a strain (BM17) of *Paenibacillus pabuli* isolated from crab shell samples collected in the east sector of central Tyrrhenian Sea
- Kikkawa Y, Tokuhisa H, Shingai H, Hiraishi T, Houjou H, Kanesato M, Imanaka T, Tanaka T// National Institute Advanced Industrial Science & Technol, Nanoarchitecton Res Ctr, Tsukuba Cent 4, 1-1-1 Higashi, Tsukuba, Ibaraki 305 8562, Japan
Biomacromolecules 2008 **9** (8) 2126
Interaction force of chitin-binding domains onto chitin surface
- Krishnapriya KR, Kandaswamy M// *Univ Chennai, Dept Inorgan Chem, Guindy Campus, IN-600025 Chennai, India
Anal Sci 2008 **24** (8) 1045
Synthesis and characterization of a chitosan-bearing binucleating ligand and its pH dependency on copper(II) adsorption
- Kudryavtsev IY, Matrosov EI// Russian Acad Sci, AN Nesmeyanov Organoelement Ctr, ul Vavilova 28, RU-119991 Moscow, Russia
Dokl Chem 2008 **421** (2) 179
Phosphorylation of chitin with tris(dimethylamino)phosphine
- Kulish EI, Volodina VP, Fatkullina RR, Kolesov SV, Zaikov GE// Bashkortostan State Univ, ul Frunze 32, RU-450074 Ufa, Bashkortostan, Russia
Polym Sci Ser B 2008 **50** (7-8) 172
Macromolecular effects upon enzymatic degradation of chitosan in solution
- Kulish EI, Volodina VP, Fatkullina RR, Kolesov SV, Zaikov GE// Address as above
Polym Sci Ser B 2008 **50** (7-8) 175
Enzymatic degradation of chitosan films under the action of nonspecific enzymes
- Lee MH, Chun MK, Choi HK// *Chosun Univ, Coll Pharm, Project Team BK21, Kwangju 501 759, South Korea
Arch Pharm Res 2008 **31** (7) 932
Preparation of Carbopol/chitosan interpolymer complex as a controlled release tablet matrix; Effect of complex formation medium on drug release characteristics
- Lin AH, Liu YM, Huang Y, Sun JB, Wu ZF, Zhang M, Ping QN// China Pharmaceut Univ, Fac Pharm, Dept Pharmaceut Technol, CN-210009 Nanjing, Jiangsu, Peoples Rep China
Int J Pharm 2008 **359** (1-2) 247
Glycyrrhizin surface-modified chitosan nanoparticles for hepatocyte-targeted delivery
- Liu GY, Zhai YL, Wang XL, Wang WT, Pan YB, Dong XT, Wang YZ// *Sichuan Univ, Coll Chem, MoE Key Lab Green Chem & Technol, Ctr Degradable & Flame-Retardant Polym Materials, 29 Wangjiang Rd, CN-610064 Chengdu, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 862
Preparation, characterization, and *in vitro* drug release behavior of biodegradable chitosan-graft-poly(1,4-dioxan-2-one) copolymer

- Liu Y, Gaskell KJ, Cheng ZH, Yu LL, Payne GF// *Univ Maryland, Inst Biotechnol, Ctr Biosystems Res, 5115 Plant Sci Bldg, College Park, Md 20742, USA
Langmuir 2008 **24** (14) 7223
 Chitosan-coated electrodes for bimodal sensing: Selective post-electrode film reaction for spectroelectrochemical analysis
- Lozano MV, Torrecilla D, Torres D, Vidal A, Dominguez F*, Alonso MJ// *Univ Santiago de Compostela, Fac Med, Dept Physiol, ES-15782 Santiago de Compostela, Spain
Biomacromolecules 2008 **9** (8) 2186
 Highly efficient system to deliver taxanes into tumor cells: Docetaxel-loaded chitosan oligomer colloidal carriers
- Madrigal-Carballo S, Seyler D, Manconi M, Mura S, Vila AO, Molina F*// *Univ Valencia, Dept Quim Fis, Unidad Invest Coloides, ES-46003 Valencia, Spain
Colloid Surface A 2008 **323** (1-3) 149
 An approach to rheological and electrokinetic behaviour of lipidic vesicles covered with chitosan biopolymer
- Martin HJ, Schulz KH, Bumgardner JD, Schneider JA// Mississippi State Univ, James Worth Bagley Coll Engr, Dave C Swalm Sch Chem Engr, Box 9595, Mississippi State, Ms 39762, USA
Thin Solid Films 2008 **516** (18) 6277
 Enhanced bonding of chitosan to implant quality titanium via four treatment combinations
- Ngah WSW, Hanafiah MAK, Yong SS// Univ Sains Malaysia, Sch Chem Sci, MY-11800 Penang, Malaysia
Colloid Surface B 2008 **65** (1) 18
 Adsorption of humic acid from aqueous solutions on crosslinked chitosan-epichlorohydrin beads: Kinetics and isotherm studies
- Nova CJM, Paolucci-Jeanjean D*, Belleville MP, Barboiu M, Rivallin M, Rios G// *Univ Montpellier 2, ENSCM, Inst European Membranes, CNRS, CC 047, Pl Eugene Bataillon, FR-34095 Montpellier, France
J Membr Sci 2008 **321** (1) 81
 Elaboration, characterization and study of a new hybrid chitosan/ceramic membrane for affinity membrane chromatography
- Nwe N, Stevens WR, Montet D, Tokura S, Tamura H*// *Kansai University, Faculty Chemistry Materials & Bioengineering & HRC, Suita, Osaka 564 8680, Japan
Int J Biol Macromol 2008 **43** (1) 2
 Decomposition of mycelial matrix and extraction of chitosan from *Gongronella butleri* USDB 0201 and *Absidia coerulea* ATCC 14076
- Opanasopit P, Petchsangsa M, Rojanarata T, Ngawhirunpat T, Sajomsang W, Ruktanonchai U// Silpakorn Univ, Fac Pharm, Dept Pharmaceut Technol, Nanotechnol Drug/Gene Delivery Systems Grp, TH-73000 Nakhonpathom, Thailand
Carbohydr Polym 2009 **75** (1) 143
 Methylated *N*-(4-*N*,*N*-dimethylaminobenzyl) chitosan as effective gene carriers: Effect of degree of substitution
- Pacheco N, Larraide-Corona CP, Sepulveda J, Trombotto S, Domard A, Shirai K*// *Univ Autonoma Metropolitana, Biopolymer Lab, MX-09340 Mexico City, DF, Mexico
Int J Biol Macromol 2008 **43** (1) 20
 Evaluation of chitosans and *Pichia guilliermondii* as growth inhibitors of *Penicillium digitatum*
- Park Y, Hong HY, Moon HJ, Lee BH, Kim IS, Kwon IC, Rhee I*// *Myongji Univ, Dept Mech Engr, Yongin 449 728, Kyonggi do, South Korea
J Controlled Release 2008 **128** (3) 217
 A new atherosclerotic lesion probe based on hydrophobically modified chitosan nanoparticles functionalized by the atherosclerotic plaque targeted peptides
- Quan JS, Jiang HL, Kim EM, Jeong HJ, Choi YJ, Guo DD, Yoo MK, Lee HG, Cho CS*// *Seoul Natl Univ, Dept Agric Biotechnol, Seoul 151 921, South Korea
Int J Pharm 2008 **359** (1-2) 205
 pH-sensitive and mucoadhesive thiolated Eudragit-coated chitosan microspheres
- Renbutsu E, Okabe S, Omura Y, Nakatsubo F, Minami S, Shigemasa Y, Saimoto H*// *Tottori Univ, Fac Engr, Dept Materials Sci, 4-101 Koyama Minami, Tottori 380 8552, Japan
Int J Biol Macromol 2008 **43** (1) 62
 Palladium adsorbing properties of UV-curable chitosan derivatives and surface analysis of chitosan-containing paint
- Rodriguez MS, Montero M, Staffolo MD, Martino M, Bevilacqua A, Albertengo L// Univ Nacl Sur, Dept Quim, Lab Invest Basicas & Aplicadas Quitina, Av Alem 1253, AR-8000 Bahia Blanca, Buenos Aires, Argentina
Carbohydr Polym 2008 **74** (4) 797
 Chitosan influence on glucose and calcium availability from yogurt: *In vitro* comparative study with plants fibre
- Saether HV, Holme HK, Maurstad G, Smidsrod O, Stokke BT*// *Norwegian Univ Sci & Technol - NTNU, Dept Phys, Biophys & Med Technol, NO-7491 Trondheim, Norway
Carbohydr Polym 2008 **74** (4) 813
 Polyelectrolyte complex formation using alginate and chitosan
- Silva CL, Pereira JC, Ramalho A, Pais AACC, Sousa JJS// Univ Coimbra, Fac Pharm, Coimbra, Portugal
J Membr Sci 2008 **320** (1-2) 268
 Films based on chitosan polyelectrolyte complexes for skin drug delivery: Development and characterization
- Sogias IA, Williams AC, Khutoryanskiy VV*// *Univ Reading, Sch Pharm, POB 224, Reading RG6 6AD, England
Biomacromolecules 2008 **9** (7) 1837
 Why is chitosan mucoadhesive?
- Stawski D, Rabiej S, Herczynska L, Draczynski Z// Tech Univ Lodz, Dept Phys Chem Polymers, Zeromskiego 116, PL-90924 Lodz, Poland
J Therm Anal Calorim 2008 **93** (2) 489
 Thermogravimetric analysis of chitins of different origin
- Sui W, Huang LL, Wang J, Bo QB// Univ Jinan, Sch Chem & Chem Engr, CN-250022 Jinan, Peoples Rep China
Colloid Surface B 2008 **65** (1) 69
 Preparation and properties of chitosan chondroitin sulfate complex microcapsules
- Sun W, Mao SR*, Mei D, Kissel T// *Shenyang Pharmaceut Univ, Sch Pharm, 103 Wenhua Rd 32, CN-110016 Shenyang, Peoples Rep China
Eur J Pharm Biopharm 2008 **69** (2) 417
 Self-assembled polyelectrolyte nanocomplexes between chitosan derivatives and enoxaparin
- Sun XF, Wang SG*, Liu XW, Gong WX, Bao N, Ma Y// *Shandong Univ, Sch Environm Sci & Engr, CN-250100 Jinan, Peoples Rep China
Colloid Surface A 2008 **324** (1-3) 28
 The effects of pH and ionic strength on fulvic acid uptake by chitosan hydrogel beads
- Sundaram CS, Viswanathan N, Meenakshi S*// *Gandhigram Rural Univ, Dept Chem, IN-624302 Gandhigram, India
Bioresour Technol 2008 **99** (17) 8226
 Uptake of fluoride by nano-hydroxyapatite/chitosan, a bioinorganic composite
- Svensson O, Thuresson K, Arnebrant T// Malmö Univ, Fac Hlth & Society, SE-20506 Malmö, Sweden
J Colloid Interface Sci 2008 **325** (2) 346
 Interactions between chitosan-modified particles and mucin-coated surfaces
- Tajik H, Moradi M*, Rohani SMR, Erfani AM, Jalali FSS// *Urmia University, Fac Veterinary Med, Dept Food Hygiene & Qual Control, IR-1177 Orumiye, Iran
Molecules 2008 **13** (6) 1263
 Preparation of chitosan from brine shrimp (*Artemia urmiana*) cyst shells and effects of different chemical processing sequences on the physicochemical and functional properties of the product
- Tanigawa J, Miyoshi N, Sakurai K*// *Fukui Univ, Grad Sch Engr, Dept Materials Sci & Engr, Fukui 910 8507, Japan
J Appl Polym Sci 2008 **110** (1) 608
 Characterization of chitosan/citrate and chitosan/acetate films and applications for wound healing
- Trimukhe KD, Varma AJ*// *Nat Chem Lab, Polym Sci & Engr Div, Dr Homi Bhabha Rd, IN-411008 Pune, India
Carbohydr Polym 2009 **75** (1) 63
 Metal complexes of crosslinked chitosans: Correlations between metal ion complexation values and thermal properties
- Tripathi S, Mehrotra GK, Dutta PK*// *Motilal Nehru Natl Inst Technol, Dept Chem, IN-211004 Allahabad, India
E Polymers 2008 93
 Chitosan based antimicrobial films for food packaging applications
- Trombotto S, Ladaviere C, Delolme F, Domard A// Univ Lyon 1, CNRS, Lab Materiaux Polymeres & Biomateriaux, UMR Ingn Materiaux Polymeres 5223, FR-69622 Villeurbanne, France
Biomacromolecules 2008 **9** (7) 1731
 Chemical preparation and structural characterization of a homogeneous series of chitin/chitosan oligomers
- Wang SY, Zhou JJ, Shao B, Lu YJ, Rao PF// Fuzhou Univ, Inst Biotechnol, Fuzhou, Fujian, Peoples Rep China
J Food Sci 2008 **73** (6) C452
 A thermostable chitinase with chitin-binding activity from *Phaseolus limensis*
- Xiao YM, Li DX, Chen XN, Lu J, Fan HS, Zhang XD// Sichuan Univ, Engr Res Ctr Biomaterials, CN-610041 Chengdu, Peoples Rep China
J Appl Polym Sci 2008 **110** (1) 408
 Preparation and cytocompatibility of chitosan-modified polylactide
- Yang XM, Zhu ZY*, Liu Q, Chen XL// *Chinese Acad Sci, Shanghai Inst Appl Phys, POB 800-204, CN-201800 Shanghai, Peoples Rep China
J Appl Polym Sci 2008 **109** (6) 3825
 Thermal and rheological properties of poly(vinyl alcohol) and water-soluble chitosan hydrogels prepared by a combination of gamma-ray irradiation and freeze thawing
- Yen MT, Yang JH, Mau JL*// *Nat Chung-Hsing Univ, Dept Food Sci & Biotechnol, 250 Kuokuang Rd, Taichung 40227, Taiwan
Carbohydr Polym 2008 **74** (4) 840
 Antioxidant properties of chitosan from crab shells

Yen MT, Yang JH, Mau JL// Natl Chung-Hsing Univ, Dept Food Sci & Biotechnol, 250 Kuokuang Rd, Taichung 40227, Taiwan
Carbohydr Polym 2009 **75** (1) 15

Physicochemical characterization of chitin and chitosan from crab shells

Yoksan R, Akashi M// *Osaka Univ, Grad Sch Engr, Dept Appl Chem, Osaka 565 0871, Japan
Carbohydr Polym 2009 **75** (1) 95

Low molecular weight chitosan-g-L-phenylalanine: Preparation, characterization, and complex formation with DNA

Yu CY, Zhang XC, Zhou FZ, Zhang XZ, Cheng SX*, Zhuo RX// *Wuhan Univ, MoE Key Lab Biomed Polymers, CN-430072 Wuhan, Peoples Rep China
Int J Pharm 2008 **357** (1–2) 15

Sustained release of antineoplastic drugs from chitosan-reinforced alginate microparticle drug delivery systems

Yu SH, Wu YB, Mi FL, Shyu SS// *Vanung Univ, Ctr Polymer Mat Res, Chung-Li, Taiwan
J Appl Polym Sci 2008 **109** (6) 3639

Polysaccharide-based artificial extracellular matrix: Preparation and characterization of three-dimensional macroporous chitosan, and heparin composite scaffold

Yuan H, Qiao XL, Ren J// *Tongji Univ, Sch Materials Sci & Engr, Inst Nano & Bio-Polymeric Materials, CN-200092 Shanghai, Peoples Rep China
J Macromol Sci Pure Appl Chem 2008 **45** (9) 754

Synthesis and application of chitosan-g-PLLA copolymers

Yuan Y, Chesnutt BM, Wright L, Haggard WO, Bumgardner JD// *Univ Memphis, Dept Biomed Engr, Memphis, TN 38152, USA
J Biomed Mater Res B 2008 **86B** (1) 245

Mechanical property, degradation rate, and bone cell growth of chitosan coated titanium influenced by degree of deacetylation of chitosan

Zhao Y, Chen J, Zeng E, Hu X, Liu A, Dong Y// *Xiamen Univ, Dept Materials Sci & Engr, CN-361005 Xiamen, Fujian, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 828

Synthesis and characterization of hydroxyethyl chitosan grafted by carboxyl end linking DOVOB dendrimer: A novel liquid crystalline polymer

Zhong QP, Xia WS// Hainan Univ, Food Chem, CN-571737 Danzhou, Hainan, Peoples Rep China
Food Technol Biotechnol 2008 **46** (3) 262

Physicochemical properties of edible and preservative films from chitosan/cassava starch/gelatin blend plasticized with glycerol

Zhou YS, Yang DZ, Ma GP, Tan HL, Jin Y, Nie J// *Wuhan Univ, Dept Chem, MoE Key Lab Biomed Polymers, CN-430072 Wuhan, Peoples Rep China
Polym Adv Technol 2008 **19** (8) 1133

A pH-sensitive water-soluble N-carboxyethyl chitosan/poly(hydroxyethyl methacrylate) hydrogel as a potential drug sustained release matrix prepared by photopolymerization technique

5. Cyclodextrins

Brewster ME, Vandecruys R, Peeters J, Neeskens P, Verreck G, Loftsson T// Johnson & Johnson Pharmaceut Res & Dev, Pharmaceut Sci Chem & Pharmaceut Dev, Beerse, Belgium
Eur J Pharm Sci 2008 **34** (2–3) 94

Comparative interaction of 2-hydroxypropyl- β -cyclodextrin and sulfobutylether- β -cyclodextrin with itraconazole: Phase-solubility behavior and stabilization of supersaturated drug solutions

Dsouza RN, Nau WM// *Jacobs Univ Bremen, Sch Sci & Engr, Campus Ring 1, DE-28759 Bremen, Germany
J Org Chem 2008 **73** (14) 5305

Triple molecular recognition as a directing element in the formation of host-guest complexes with β -sulfonatocalix[4]arene and β -cyclodextrin

Kear CL, Yang J, Godwin DA, Felton LA// *Univ New Mexico, Coll Pharm, 2502 Marble NE, Albuquerque, NM 87131, USA
Drug Develop Ind Pharm 2008 **34** (7) 692

Investigation into the mechanism by which cyclodextrins influence transdermal drug delivery

Klink M, Ritter H// *Univ Dusseldorf, Inst Organ & Makromol Chem, Lehrstuhl Praeparative Polymerchem, Universitätsstr 1, DE-40225 Dusseldorf, Germany
Macromol Rapid Commun 2008 **29** (14) 1208

Supramolecular gels based on multi-walled carbon nanotubes bearing covalently attached cyclodextrin and water-soluble guest polymers

Kuratomi Y, Osaki M, Takshima Y, Yamaguchi H, Harada A// *Osaka Univ, Grad Sch Sci, Dept Macromol Sci, Osaka 560 0043, Japan
Macromol Rapid Commun 2008 **29** (11) 910

Stereoselective complex formation between polybutadiene and cyclodextrins in bulk

Liu Y, Yang ZX, Chen Y// Nankai Univ, Dept Chem, State Key Lab Elementoorgan Chem, CN-300071 Tianjin, Peoples Rep China
J Org Chem 2008 **73** (14) 5298

Syntheses and self-assembly behaviors of the azobenzenyl modified β -cyclodextrins isomers

Mourer M, Hapiot F, Monflier E, Menuel S// *Univ Artois, CNRS UMR 8181, Unite Catalyse & Chim Solide, rue Jean Souvraz, SP 18, FR-62307 Lens, France
Tetrahedron 2008 **64** (30–31) 7159

Click chemistry as an efficient tool to access β -cyclodextrin dimers

Qian L, Guan Y, Xiao H// *Sth China Univ Technol, State Key Lab Pulp & Paper Engr, Guangzhou, Guangdong, Peoples Rep China
Int J Pharm 2008 **357** (1–2) 244

Preparation and characterization of inclusion complexes of a cationic β -cyclodextrin polymer with butylparaben or triclosan

Trichard L, Delgado-Charro MB, Guy RH, Fattal E, Bochot A// *Univ Paris Sud, Fac Pharm, Physico-Chim-Pharmacotech-Biopharm, CNRS UMR 8612, 5 rue JB Clement, FR-92296 Chatenay Malabry, France
Pharm Res 2008 **25** (2) 435

Novel beads made of α -cyclodextrin and oil for topical delivery of a lipophilic drug

Wang Y, Xiao Y, Tan TTY, Ng SC// *Nanyang Technol Univ, Sch Chem & Biomed Engr, 62 Nanyang Dr, Singapore, Rep Singapore
Tetrahedron Lett 2008 **49** (35) 5190

Click chemistry for facile immobilization of cyclodextrin derivatives onto silica as chiral stationary phases

Xu CH, Ng SC*, Chan HSO// *Nanyang Technol Univ, Div Chem & Biomol Engr, SG-637459 Singapore, Rep Singapore
Langmuir 2008 **24** (16) 9118

Self-assembly of perfunctionalized β -cyclodextrins on a quartz crystal microbalance for real-time chiral recognition

Zarzycki PK, Ohta H, Saito Y, Jinno K// Koszalin Univ Technol, Dept Environm Biol, Sect Toxicol & Bioanal, Sniadeckich 2, PL-75453 Koszalin, Poland
Anal Bioanal Chem 2008 **391** (8) 2793

Interaction of native α -cyclodextrin, β -cyclodextrin and γ -cyclodextrin and their hydroxypropyl derivatives with selected organic low molecular mass compounds at elevated and subambient temperature under RP-HPLC conditions

Zhekova BY, Pishtiyski IG, Stanchev VS// Univ Food Technol, Dept Biochem & Mol Biol, 26 Maritza Blvd, BG-4000 Plovdiv, Bulgaria
Food Technol Biotechnol 2008 **46** (3) 328

Investigation on cyclodextrin production with cyclodextrin glucanotransferase from *Bacillus megaterium*

6. Lignin

Brudin S, Berwick J, Duffin M, Schoenmakers P// Univ Amsterdam, Polymer Anal Grp - HIMS, Nieuwe Achtergracht 166, NL-1018 WV Amsterdam, The Netherlands
J Chromatogr A 2008 **1201** (2) 196

One-dimensional and two-dimensional liquid chromatography of sulphonated lignins

Conrad K// Univ Copenhagen, Fac Life Sci, Dept Plant Biol, DK-1168 Copenhagen, Denmark
Bioresour Technol 2008 **99** (17) 8476

Correlation between the distribution of lignin and pectin and distribution of sorbed metal ions (lead and zinc) on coir (*Cocos nucifera* L.)

Kishimoto T, Uraki Y, Ubukata M// Toyama Prefectural Univ, Fac Engr, Dept Biotechnol, Bioorgan Chem Lab, Imizu, Toyama 939 0398, Japan
Org Biomol Chem 2008 **6** (16) 2982

Synthesis of β -O-4-type artificial lignin polymers and their analysis by NMR spectroscopy

Notley SM, Norgren M// Australian Natl Univ, Res Sch Phys Sci & Engr, Dept Appl Math, Canberra, ACT, Australia
Biomacromolecules 2008 **9** (7) 2081

Adsorption of a strong polyelectrolyte to model lignin surfaces

Xu F, Sun RC*, Zhai MZ, Sun JX, She D, Geng ZC, Lu Q// *Sth China Univ Technol, State Key Lab Pulp & Paper Engr, CN-510641 Guangzhou, Guangdong, Peoples Rep China
Separ Sci Technol 2008 **43** (11–12) 3351

Fractional separation of hemicelluloses and lignin in high yield and purity from mild ball-milled *Periploca sepium*

7. Lipopolysaccharides

De Castro C, Molinaro A, Lanzetta R, Silipo A, Parrilli M// Univ Naples Federico II, Dept Organ Chem & Biochem, Complesso Univ Monte Sant Angelo, Via Cinthia 4, IT-80126 Naples, Italy
Carbohydr Res 2008 **343** (12) 1924

Lipopolysaccharide structures from *Agrobacterium* and Rhizobiaceae species

Dzieciatkowska M, Schweda EKH, Moxon ER, Richards JC, Li JJ// *Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr, Ottawa, ON, Canada K1A 0R6
Electrophoresis 2008 **29** (10) 2171

Characterization of intact lipopolysaccharides from the *Haemophilus influenzae* strain RM 118 using electrophoresis-assisted open-tubular liquid chromatography-mass spectrometry

Hou DJ, Skogman F, Lowary TL// *Univ Alberta, Dept Chem, Gunning Lemieux Chem Ctr, Edmonton, Alberta, Canada T6G 2G2

Carbohydr Res 2008 **343** (10–11) 1778

Synthesis of 8-azidoethyl glycoside derivatives of the O-chain repeating unit of *Escherichia coli* O9a lipopolysaccharide and a methylated analog

Saksena R, Chernyak A, Kovac P// *NIH/NIDDK, LBC, Bethesda, Md 20892, USA

Carbohydr Res 2008 **343** (10–11) 1693

Synthesis of space-equipped di-, tri-, and the tetrasaccharide fragments of the deacetylated O-PS1 of *Citrobacter gillenii* O9a,9b, and a related pentasaccharide

Son SH, Tano O, Furuike T, Sakairi N// *Hokkaido Univ, Grad Sch Environm Sci, Kita ku, Sapporo, Hokkaido 060 081, Japan

Tetrahedron Lett 2008 **49** (36) 5289

Synthesis of a tetrasaccharide repeating unit of O-antigenic polysaccharide of *Salmonella enteritidis* by use of unique and odorless dodecyl thioglycosyl donors

Zdorovenko EL, Vinogradov E, Wydra K, Lindner B, Knirel YA// Russian Acad Sci, ND Zelinsky Inst Organ Chem, RU-119991 Moscow, Russia

Biomacromolecules 2008 **9** (8) 2215

Structure of the oligosaccharide chain of the SR-type lipopolysaccharide of *Ralstonia solanacearum* Toudk-2

8. Pectin

Anthony GE, Diaz JV, Barrett DM// Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA

J Agric Food Chem 2008 **56** (16) 7100

Changes in pectins and product consistency during the concentration of tomato juice to paste

Coenen GJ, Kabel MA, Schols HA, Voragen AGJ// *Wageningen Univ, Dept Agrotechnol & Food Sci, Food Chem Lab, POB 8129, NL-6700 EV Wageningen, The Netherlands

Electrophoresis 2008 **29** (10) 2101

CE-MSⁿ of complex pectin-derived oligomers

Dobies M, Kempka M, Kusmia S, Jurga S// *Adam Mickiewicz Univ Poznan, Fac Phys, Dept Macromol Phys, Umultowska 85, PL-61614 Poznan, Poland

Appl Magn Reson 2008 **34** (1–2) 71

Acid-induced gelation of low-methoxyl pectins studied by ¹H NMR and rheological methods

Einhorn-Stoll U, Kunzek H// Tech Univ Berlin, Food Sci & Food Chem Food Qual & Material Sci, Koenigin-Luise-Str 22, DE-14195 Berlin, Germany

Food Hydrocolloid 2009 **23** (1) 40

Thermoanalytical characterisation of processing-dependent structural changes and state transitions of citrus pectin

Gigac J, Fiserova M, Rosenberg M// Pulp & Paper Res Ctr, Lamacska cesta 3, SK-84104 Bratislava, Slovakia

Chem Pap 2008 **62** (5) 509

Improvement of paper strength via surface application of sugar beet pectin

Kalantzi S, Mamma D, Christakopoulos P, Kekos D// *Natl Tech Univ Athens, Sch Chem Engrg, Biotechnol Lab, 9 Iroon Polytechniou St, Zografou Campus, GR-15780 Athens, Greece

Bioresour Technol 2008 **99** (17) 8185

Effect of pectate lyase bioscouring on physical, chemical and low-stress mechanical properties of cotton fabrics

Liu H, Xu XM*, Guo SD// *Sthn Yangtze Univ, MoE Key Lab Food Sci & Safety, Jiangsu, Wuxi, Peoples Rep China

Int J Food Sci Technol 2008 **43** (9) 1581

Comparison of full-fat and low-fat cheese analogues with or without pectin gel through microstructure, texture, rheology, thermal and sensory analysis

Macku I, Bunka F*, Pavlinek V, Leciabiva P, Hrabec J// *Tomas Bata Univ Zlin, Dept Food Engrg, Nam TG Masaryka 275, CZ-76272 Zlin, Czech Republic

Int J Food Sci Technol 2008 **43** (9) 1663

The effect of pectin concentration on viscoelastic and sensory properties of processed cheese

Maftoonazad N, Ramaswamy HS// *McGill University, Dept Food Sci, MacDonald Campus, 21 111 Lakeshore, Ste Anne de Bellevue, Quebec, Canada H9X 3V9

J Food Process Preserv 2008 **32** (4) 621

Effect of pectin-based coating on the kinetics of quality change associated with stored avocados

Santipanichwong R, Suphantharika M, Weiss J, McClements DJ// Mahidol Univ, Faculty Science, Department Biotechnol, Rama VI Rd, TH-10400 Bangkok, Thailand

J Food Sci 2008 **73** (6) N23

Core-shell biopolymer nanoparticles produced by electrostatic deposition of beet pectin onto heat-denatured β -lactoglobulin aggregates

Taskin E, Eltem R// Celal Bayar Univ, Fac Art & Sci, Dept Biol, TR-45140 Manisa, Turkey

Food Biotechnol 2008 **22** (3) 203

The enhancement of polygalacturonase and polymethylgalacturonase production on solid-state conditions by *Aspergillus foetidus*

9. Starch

Blaszczak W, Bidzinska E, Dyrek K*, Fornal J, Wenda E// *Jagiellonian Univ, Fac Chem, Ingardena 3, PL-30060 Krakow, Poland

Carbohydr Polym 2008 **74** (4) 914

Effect of high hydrostatic pressure on the formation of radicals in maize starches with different amylose content

Bossard F, Pillin I, Aubry T, Grohens Y// Univ Grenoble 1, Inst Natl Polytech Grenoble, Lab Rheol, UMR 5520, BP 53, FR-38041 Grenoble 9, France

Polym Eng Sci 2008 **48** (9) 1862

Rheological characterization of starch derivatives/polycaprolactone blends processed by reactive extrusion

Cao XD, Chen Y, Chang PR*, Stumborg M, Huneault MA// *Agric & Agri-Food Canada, Bioproducts & Bioprocesses Natl Sci Program, 107 Science Pl, Saskatoon, Saskatchewan, Canada S7N 0X2

J Appl Polym Sci 2008 **109** (6) 3804

Green composites reinforced with hemp nanocrystals in plasticized starch

Chaudhary AL, Miller M, Torley PJ, Sopade PA, Halley PJ// Univ Queensland, Dept Chem Engrg, Ctr High Performance Polym, St Lucia, Qld 4072, Australia

Carbohydr Polym 2008 **74** (4) 907

Amylose content and chemical modification effects on the extrusion of thermo-plastic starch from maize

Che LM, Wang LJ, Li D*, Bhandari B, Ozkan N, Chen XD, Mao ZH// *China Agric Univ, Coll Engrg, 17 Qinghua Donglu, CN-100083 Beijing, PR China

Carbohydr Polym 2009 **75** (1) 32

Starch pastes thinning during high-pressure homogenization

Chen J, Liu C, Chen Y, Chen Y, Chang PR// *Agric & Agri-Food Canada, Bioproducts & Bioprocesses Nat Sci Program, 107 Science Pl, Saskatoon, Saskatchewan, Canada S7N 0X2

Carbohydr Polym 2008 **74** (4) 946

Structural characterization and properties of starch/konjac glucomannan blend films

Comer CM, Jessop JLR// *Univ Iowa, Dept Chem & Biochem Engrg, 4133 Seamans Ctr, Iowa City, Ia 52242, USA

Starch 2008 **60** (7) 335

Evaluation of novel back-flush filtration for removal of homopolymer from starch-g-PMMA

Da G, Dufour D, Marouze C, Le Thanh M, Marechal PA// Univ Bourgogne, 1 Esplanade Erasme, Dijon, France

Starch 2008 **60** (7) 358

Cassava starch processing at small scale in north Vietnam

Dias RP, Fernandes CS, Mota M*, Teixeira J, Yelshin A// *Univ Minho, Inst Biotechnol & Bioengn, Ctr Engrg Biol, PT-4710-057 Braga, Portugal

Carbohydr Polym 2008 **74** (4) 852

Starch analysis using hydrodynamic chromatography with a mixed-bed particle column

Elfstrand L, Eliasson AC, Wahlgren M// *Lund Univ, Div Food Technol, Dept Food Technol Engrg & Nutr, PO Box 124, SE-22100 Lund, Sweden

Carbohydr Polym 2009 **75** (1) 157

Changes in starch structure during manufacturing of starch microspheres for use in parenteral drug formulations: Effects of temperature treatment

Fernandez-Martin F, Fernandez-Garcia M, Tabilo-Munizaga G, Barbosa-Canovas GV// Inst Frio - CSIC, Dept Ingn, Ciudad Univ, ES-28040 Madrid, Spain

Food Res Int 2008 **41** (7) 683

Pressurization of some starches compared to heating: Calorimetric, thermo-optical and X-ray examination

Goesaert H, Leman P, Delcour JA// Katholieke Univ Leuven, Lab Food Chem & Biochem, Kasteelpark Arenberg 20, BE-3001 Louvain, Belgium

J Agric Food Chem 2008 **56** (15) 6423

Model approach to starch functionality in bread making

Habitante AMBQ, Sobral PJA*, Carvalho RA, Solorza-Feria J, Bergo PVA// *Univ Sao Paulo, FZEA, Dept Food Engrg, POB 23, BR-13635-900 Pirassununga, SP, Brazil

J Therm Anal Calorim 2008 **93** (2) 599

Phase transitions of cassava starch dispersions prepared with glycerol solutions

Hua SB, Wang AQ// *Chinese Acad Sci, Lanzhou Inst Chem Phys, Ctr Ecomaterials & Green Chem, CN-730000 Lanzhou, Peoples Rep China

Polym Adv Technol 2008 **19** (8) 1009

Preparation and properties of superabsorbent containing starch and sodium humate

Jain AK, Khar RK, Ahmed FJ, Diwan PV// *Chem Ind Inst Toxicol, Div Pharmacol, Uppal Rd, IN-500007 Hyderabad, India

Eur J Pharm Biopharm 2008 **69** (2) 426

Effective insulin delivery using starch nanoparticles as a potential trans-nasal mucoadhesive carrier

Kaneko Y, Saito Y, Nakaya A, Kadokawa JI*, Tagaya H// *Kagoshima Univ, Grad Sch Sci & Engrg, 1-21-40 Korimoto, Kagoshima 890 0065, Japan

Macromolecules 2008 **41** (15) 5665

Preparation of inclusion complexes composed of amylose and strongly hydrophobic polyesters in parallel enzymatic polymerization system

- Kida T, Minabe T, Nakano S, Akashi M// *Osaka Univ, Grad Sch Engr, Dept Appl Chem, 2-1 Yamadaoka, Suita, Osaka 565 0871, Japan
Langmuir 2008 **24** (17) 9227
Fabrication of novel multilayered thin films based on inclusion complex formation between amylose derivatives and guest polymers
- Kim MJ, Choi SJ, Shin SI, Sohn MR, Lee CJ, Kim Y, Cho WI, Moon TW// *Seoul Nat Univ, Res Inst Agric & Life Sci, Dept Agric Biotechnol, Ctr Agric Biomaterials, Seoul 151 921, South Korea
Carbohydr Polym 2008 **74** (4) 787
Resistant glutarate starch from adlay: Preparation and properties
- Kurakake M, Noguchi M, Fujioka K, Kornaki T// Fukuyama Univ, Dept Appl Biol Sci, Gakuenchou 1 banchi, Hiroshima 729 0292, Japan
Cereal Chem 2008 **85** (4) 566
Pasting characteristics of maize starch heat-treated with different water-ethanol mixtures
- Langmaier F, Mladek M, Mokrejs P, Kolomaznik K// Tomas Bata Univ, Fac Technol, Inst Polymer Engr, nam TGM 275, CZ-76272 Zlin, Czech Republic
J Therm Anal Calorim 2008 **93** (2) 547
Biodegradable packing materials based on waste collagen hydrolysate cured with dialdehyde starch
- Lawal OS, Lechner MD, Kulicke WM// Olabisi Onabanjo Univ, Dept Chem Sci, PMB 2002, Ago Iwoye, Ogun Stage, Nigeria
Int J Biol Macromol 2008 **42** (5) 429
Single and multi-step carboxymethylation of water yam (*Dioscorea alata*) starch: Synthesis and characterization
- Lawal OS, Ogundiran OO, Adesogan EK, Ogunsanwo BM, Sosanwo OA// Address as above
Starch 2008 **60** (7) 340
Effect of hydroxypropylation on the properties of white yam (*Dioscorea rotundata*) starch
- Louaer W, Meniai AH, Grolier JPE// *Univ Clermont Ferrand, Lab Thermodynamics Solutions & Polymers, FR-63177 Aubiere, France
J Therm Anal Calorim 2008 **93** (2) 605
Thermal analysis of the influence of water content on glass transitions - Heat capacities of starches from different origins
- Ma X, Chang PR, Yu J*, Lu P// *Tianjin Univ, Sch Sci, CN-300072 Tianjin, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 895
Characterizations of glycerol plasticized-starch (GPS)/carbon black (CB) membranes prepared by melt extrusion and microwave radiation
- Ma X, Chang PR*, Yu J, Stumborg M// *Agric & Agri-Food Canada, Bioproducts & Bioprocesses Nat Sci Prog, 107 Science Pl, Saskatoon, Saskatchewan, Canada S7N 0X2
Carbohydr Polym 2009 **75** (1) 1
Properties of biodegradable citric acid-modified granular starch/thermoplastic pea starch composites
- Ma XF, Chang PR, Yu JG, Lu PL// Tianjin Univ, Sch Sci, CN-300072 Tianjin, Peoples Rep China
Starch 2008 **60** (7) 373
Electrically conductive carbon black (CB)/glycerol plasticized-starch (GPS) composites prepared by microwave radiation
- Maache-Rezzoug Z, Zarguili I, Loisel C, Queveau D, Buleon A// Univ Rochelle, Lab LEPTIAB, Ave M Crepeau, FR-17042 La Rochelle, France
Carbohydr Polym 2008 **74** (4) 802
Structural modifications and thermal transitions of standard maize starch after DIC hydrothermal treatment
- Mathew AP, Thielemans W, Dufresne A// Univ Joseph Fourier Grenoble, Ctr Rech Macromol Vegetales-CNRS, FR-38041 Grenoble 9, France
J Appl Polym Sci 2008 **109** (6) 4065
Mechanical properties of nanocomposites from sorbitol plasticized starch and tunicin whiskers
- Meshram MW, Patil VV, Mhaske ST, Thorat BN// *Univ Mumbai, Inst Chem Technol, Dept Chem Engr, IN-400019 Mumbai, India
Carbohydr Polym 2009 **75** (1) 71
Graft copolymers of starch and its application in textiles
- Pascente C, Marquez L, Balsamo V*, Muller AJ// *Univ Simon Bolivar, Dept Ciencia Materiales, Grp Polimeros, Apartado 89000, VE-1080A Caracas, Venezuela
J Appl Polym Sci 2008 **109** (6) 4089
Use of modified poly(ϵ -caprolactone) in the compatibilization of poly(ϵ -caprolactone)/maize starch blends
- Pascu MC, Popescu MC, Vasile C// *Poni Inst Macromol Chem, 41A Gr Ghica Voda Alley, RO-700487 Iasi, Romania
J Phys D Appl Phys 2008 **41** (17) 75407
Surface modifications of some nanocomposites containing starch
- Psota V, Chmelik J, Bohacenko I, Hartmann J// Res Inst Brewing & Malting Plc, Malting Inst, Brno, Czech Republic
J Am Soc Brew Chemist 2008 **66** (3) 162
Relationship between starch granule size distribution and selected malting parameters
- Raquez JM, Nabar JM, Natayan R, Dubois P// Univ Mons, Lab Polymer & Composite Materials, CIRMAP, BE-7000 Mons, Belgium
Polym Eng Sci 2008 **48** (9) 1747
In situ compatibilization of maleated thermoplastic starch/polyster melt-blends by reactive extrusion
- Rivas-Gonzalez M, Mendez-Montealvo MGC*, Sanchez-Rivera MM, Nunez-Santiago MC, Bello-Perez LA// *IPN, Ctr Desarrollo Prod Bioticos, Apartado Postal 24, MX-62731 Yautepec, Morelos, Mexico
Agrociencia 2008 **42** (5) 487
Morphological molecular and physicochemical characterization of oxidized and linterized banana starch
- Sang YJ, Bean S, Seib PA, Pedersen J, Shi YC// Kansas State Univ, Dept Grain Sci & Ind, Manhattan, KS 66506, USA
J Agric Food Chem 2008 **56** (15) 6680
Structure and functional properties of sorghum starches differing in amylose content
- Sangeeta M, Rai T// *Nat Dairy Res Inst, Div Dairy Chem, IN-132001 Karnal, India
J Food Sci Technol Mysore 2008 **45** (5) 406
Rheological properties of corn, potato and tapioca starch hydrolysates
- Schlemmer D, Sales MJA*, Resck IS// *Univ Brasilia, Inst Quim, Lab Pesquisa Polimeros, Caixa Postal 4478, BR-70904-970 Brasilia, DF, Brazil
Carbohydr Polym 2009 **75** (1) 58
Degradation of different polystyrene/thermoplastic starch blends buried in soil
- Shi R, Bi J, Zhang Z, Zhu A, Chen D, Zhou X, Zhang L, Tian W// *Beijing Univ Chem Technol, Sch Materials Sci & Engr, Ctr Advanced Elastomer Materials, Box 57, CN-100029 Beijing, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 763
The effect of citric acid on the structural properties and cytotoxicity of the poly-vinyl alcohol/starch films when molding at high temperature
- Shogren RL, Willett JL, Biswas A// *USDA/ARS, Nat Ctr Agric Utilization Res, Plant Polym Res Unit, 1815 Nth University St, Peoria, IL 61604, USA
Carbohydr Polym 2009 **75** (1) 189
HRP-mediated synthesis of starch-polyacrylamide graft copolymers
- Siddaramaiah, Swamy TMM, Ramaraj B, Lee JH// Sri Jayachamarajendra Coll Engr, Dept Polymer Sci & Technol, IN-570006 Mysore, India
J Appl Polym Sci 2008 **109** (6) 4076
Sodium alginate and its blends with starch: Thermal and morphological properties
- Singh N, Nakaura Y, Inouchi N, Nishinari K// Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, India
Starch 2008 **60** (7) 349
Structure and viscoelastic properties of starches separated from different legumes
- Singh V, Ali SZ// Council Sci Ind Res, Cent Food Technol Res Inst, Dept Grain Sci & Technol, IN-570020 Mysore, India
Int J Food Prop 2008 **11** (3) 495
Properties of starches modified by different acids
- Tamura K, Maeda K, Yashima E// *Nagoya Univ, Grad Sch Engr, Dept Mol Design & Engr, Chikusa ku, Nagoya, Aichi 464 8603, Japan
Macromolecules 2008 **41** (13) 5065
Chemical modification of a luminescent poly(phenylenevinylene)-amylose composite
- Thys RCS, Westfahl H, Norena CPZ, Marczak LDF, Silveira NP, Cardoso MB// *Lab Nacl Luz Sincrotron - LNLS, Caixa Postal 6192, BR-13083-970 Campinas, SP, Brazil
Biomacromolecules 2008 **9** (7) 1894
Effect of the alkaline treatment on the ultrastructure of C-type starch granules
- Vertuccio L, Gorrasi G, Sorrentino A*, Vittoria V// *University Salerno, Chem & Food Engr Department, Via Ponte Don Melillo, IT-84084 Fisciano, Salerno, Italy
Carbohydr Polym 2009 **75** (1) 172
Nano clay reinforced PCL/starch blends obtained by high energy ball milling
- Wang J, Lu Y, Yuan HL*, Dou P// *Beijing Univ Chem Technol, Key Lab Beijing City Preparation & Processing Novel Polym, CN-100029 Beijing, Peoples Rep China
J Appl Polym Sci 2008 **110** (1) 523
Crystallization, orientation morphology, and mechanical properties of biaxially oriented starch/polyvinyl alcohol films
- Wang X, Gao WY*, Zhang LM, Xiao PG, Yao LP, Liu Y, Li KF, Xie WG// *Tianjin Univ, Sch Pharmaceut Sci & Technol, CN-300072 Tianjin, Peoples Rep China
Sci China B 2008 **51** (9) 859
Study on the morphology, crystalline structure and thermal properties of yam starch acetates with different degrees of substitution
- Wickramasinghe HAM, Takigawa S, Matsuura-Endo C, Yamauchi H, Noda T// *Nat Agric Res Ctr Hokkaido Region, Shinsei, Memuro, Hokkaido 082 0081, Japan
Food Chem 2009 **112** (1) 98
Comparative analysis of starch properties of different root and tuber crops of Sri Lanka

Yalcin S, Basman A*// *Hacettepe Univ, Fac Engr, Dept Food Engr, TR-06800 Ankara, Turkey
J Food Qual 2008 **31** (4) 465
 Quality characteristics of corn noodles containing gelatinized starch, transglutaminase and gum

10. Starch-degrading enzymes

Absar N, Zaidul ISM, Takigawa S, Hashimoto N, Matsuura-Endo C, Yamauchi H, Noda T*// *Nat Agric Res Ctr Hokkaido Reg, Memuro Upland Farming Res Stn, Shinsei, Memuro, Kasai, Hokkaido 082 0071, Japan
Food Chem 2009 **112** (1) 57
 Enzymatic hydrolysis of potato starches containing different amounts of phosphorus

Chung HJ, Liu Q*, Dormer E, Hoover R, Warkentin TD, Vandenberg B// *Agric & Agri-Food Canada, Guelph Food Res Ctr, 93 Store Rd West, Guelph, Ontario, Canada N1G 5C9
Cereal Chem 2008 **85** (4) 473
 Composition, molecular structure, properties, and *in vitro* digestibility of starches from newly released Canadian pulse cultivars

Dong SW, Lu DN*// *Donghua Univ, MoE Key Lab Sci & Technol Eco-Textile, Shanghai, Peoples Rep China
J Appl Polym Sci 2008 **109** (6) 3733
 Kinetics of the thermal inactivation of *Bacillus subtilis* α -amylase and its application on the desizing of cotton fabrics

Kilonzo PM, Margaritis A*, Bergougnou MA// *Univ Western Ontario, Dept Chem & Biochem Engr, London, Ontario, Canada N6A 5B9
J Inst Brew 2008 **114** (2) 83
 Effect of medium composition on glucoamylase production during batch fermentation of recombinant *Saccharomyces cerevisiae*

Lacerda LG, Filho MADC, Demiate IM, Bannach G, Ionashiro M, Schnitzler E*// *Univ Estadual Ponta Grossa, Av Carlos Cavalcanti 4748, BR-84030-900 Ponta Grossa, PR, Brazil
J Therm Anal Calorim 2008 **93** (2) 445
 Thermal behaviour of corn starch granules under action of fungal α -amylase

Le QT, Lee CK, Kim YW, Lee SJ, Zhang R, Withers SG, Kim YR, Auh JH, Park KH*// *Seoul Natl Univ, Dept Food Sci & Biotechnol, Ctr Agric Biomaterials, Sillim-dong, Kwanak-gu, Seoul 151 742, South Korea
Carbohydr Polym 2009 **75** (1) 9
 Amylolytically-resistant tapioca starch modified by combined treatment of branching enzyme and maltogenic amylase

Leman P, Goesert H*, Delcour JA// *Katholieke Univ Leuven, Lab Food Chem, Kasteelpark Arenberg 20, BE-3001 Leuven, Belgium
Food Hydrocolloid 2009 **23** (1) 153
 Residual amylopectin structures of amylase-treated wheat starch slurries reflect amylase mode of action

Lopez-Rubio A, Flanagan BM, Shrestha AK, Gidley MJ, Gilbert EP// Australian Nucl Sci & Technol Org, Bragg Inst, PMB 1, Menai, NSW 2234, Australia
Biomacromolecules 2008 **9** (7) 1951
 Molecular rearrangement of starch during *in vitro* digestion: Toward a better understanding of enzyme resistant starch formation in processed starches

Ray RC, Kar S, Nayak S, Swain MR// Cent Tuber Crops Res Inst Reg Ctr, Microbiol Lab, PO Dumduma Housing Board, IN-751019 Bhubaneswar, Orissa, India
Food Biotechnol 2008 **22** (3) 234
 Extracellular α -amylase production by *Bacillus brevis* MTCC 7521

Tavano OL, Pessela BCC, Goulart AJ, Fernandez-Lafuente R, Guisan JM*, Monti R// *Inst Catalis - CSIC, Dept Biocatalis, Campus UAM, ES-28049 Madrid, Spain
Food Biotechnol 2008 **22** (3) 262
 Stabilization of an amylase from *Neurospora crassa* by immobilization on highly activated supports

11. Polysaccharides - Microbial

Bachelder EM, Beaudette TT, Broaders KE, Dashe J, Frechet JMJ*// *Univ Calif Berkeley, Dept Chem, Berkeley, CA 94720, USA
J Am Chem Soc 2008 **130** (32) 10494
 Acetal-derivatized dextran: An acid-responsive biodegradable material for therapeutic applications

Baek JY, Joo YJ, Kim KS*// *Yonsei Univ, Ctr Bioactive Mol Hybrids, Seoul 120 749, South Korea
Tetrahedron Lett 2008 **49** (32) 4734
 Stereoselective α -galactofuranosylation and synthesis of di- and tetrasaccharide subunits of cell wall polysaccharides of *Talaromyces flavus*

Baumgartner S, Pavli M, Kristl J// Univ Ljubljana, Fac Pharm, Askerceva 7, SI-1000 Ljubljana, Slovenia
Eur J Pharm Biopharm 2008 **69** (2) 698
 Effect of calcium ions on the gelling and drug release characteristics of xanthan matrix tablets

Frases S, Nimrichter L, Viana NB, Nakouzi A, Casadevall A*// *Einstein Coll Med, Dept Microbiol & Immunol, 1300 Morris Pk Ave, Bronx, NY 10461, USA
Eukaryot Cell 2008 **7** (2) 319
Cryptococcus neoformans capsular polysaccharide and exopolysaccharide fractions manifest physical, chemical, and antigenic differences

Gandolfi-Donadio L, Gallo-Rodriguez C, De Lederkremer RM*// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Organ, CIHIDECAR, Ciudad Univ, Pabellon 2, AR-1428 Buenos Aires, DF, Argentina
Carbohydr Res 2008 **343** (10-11) 1870
 Synthesis of a tetrasaccharide fragment of mycobacterial arabinogalactan

Giese EC, Dekker RFH, Barbosa AM, Da Silva R// Univ Estadual Paulista, IBILCE, Dept Quim & Ciencias Ambientais, BR-15054-000 Sao Jose do Rio Preto, Sao Paulo, Brazil
Carbohydr Polym 2008 **74** (4) 953
 Triple helix conformation of botryospheraan, a (1 $\rightarrow$ 3;1 $\rightarrow$ 6)- β -D-glucan produced by *Botryosphera rhodina* MAMB-05

He F, Yang Y*, Yang G, Yu LJ// *Huazhong Univ Sci & Technol, Coll Life Sci & Technol, Inst Resources Biol & Biotechnol, CN-430074 Wuhan, Peoples Rep China
Z Naturforsch C 2008 **63** (3-4) 181
 Components and antioxidant activity of the polysaccharide from *Streptomyces virginia* H03

Henni-Silhadi W, Deyme M*, De Hoyos MR, Le Cerf D, Picton L, Rosilio V// *Univ Paris Sud, UMR 8612, 5 rue Jean Baptiste Clement, FR-92296 Chatenay Malabry, France
Colloid Polym Sci 2008 **286** (11) 1299
 Influence of alkyl chains length on the conformation and solubilization properties of amphiphilic carboxymethylpullulans

Jiang YH, Jiang XL, Wang P, Mou HJ, Hu XK, Liu SQ// Ocean Univ Qingdao, Inst Food Sci & Engr, Div Life Sci & Technol, 5 Yushan Rd, CN-266003 Qingdao, Peoples Rep China
Microbiol Res 2008 **163** (4) 424
 The antitumor and antioxidative of polysaccharides isolated from *Isaria farinosa* B05

Jiao YC, Chen QH*, Zhou JS, Zhang HF, Chen HY// *Zhejiang Univ, Dept Food Sci & Nutr, CN-310029 Hangzhou, Zhejiang, Peoples Rep China
LWT Food Sci Technol 2008 **41** (9) 1694
 Improvement of *exo*-polysaccharide production and modeling kinetics by *Armillaria luteo-virens* Sacc. in submerged cultivation

Lai CKM, Wong KH, Cheung PCK*// *Chinese Univ Hong Kong, Univ Sci Ctr, Dept Biol, Shatin, Hong Kong, Peoples Rep China
Int J Med Mushrooms 2008 **10** (3) 255
 Anti proliferative effects of sclerotial polysaccharides from *Polyporus rhinoceros* Cooke (Aphyllorphomycetidae) on different kinds of leukemic cells

Lee CM, Jeong HJ, Kim DW, Lee KY*// *Chonnam Natl Univ, Fac Appl Chem Engr, Kwangju 500 757, South Korea
Macromol Res 2008 **16** (5) 429
 Alginate/carboxymethyl scleroglucan hydrogels for controlled release of protein drugs

Leon PG, Lamanna ME, Gerschenson LN, Rojas AM*// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Ind, Ciudad Univ, AR-1428 Buenos Aires, DF, Argentina
Food Res Int 2008 **41** (6) 667
 Influence of composition of edible films based on gellan polymers on L-(+)-ascorbic acid stability

Li HP, Lu XX, Zhang SH, Lu MJ, Liu HM// Tianjin Univ Commerce, Fac Food Sci & Biotechnol, Tianjin Key Lab Food Biotechnol, CN-300134 Tianjin, Peoples Rep China
Biochemistry (Mosc) 2008 **73** (6) 669
 Anti-inflammatory activity of polysaccharide from *Pholiota nameko*

Maiti S, Ray S, Sa B*// *Jadavpur Univ, Dept Pharmaceut Technol, Ctr Advanced Res Pharmaceut Sci, IN-700032 Kolkata, India
Polym Adv Technol 2008 **19** (7) 922
 Effect of formulation variables on entrapment efficiency and release characteristics of bovine serum albumin from carboxymethyl xanthan microparticles

Majumder A, Singh A, Goyal A*// *Indian Inst Technol Guwahati, Dept Biotechnol, IN-781039 Guwahati, Assam, India
Carbohydr Polym 2009 **75** (1) 150
 Application of response surface methodology for glucan production from *Leuconostoc dextranicum* and its structural characterization

Matricardi P, Pontoriero M, Coviello T, Casadei MA, Alhaique F// Univ Roma La Sapienza, Fac Pharm, Dept Chem & Technol Biol Active Cpd, Ple Aldo Moro 5, IT-00185 Rome, Italy
Biomacromolecules 2008 **9** (7) 2014
In situ cross-linkable novel alginate-dextran methacrylate IPN hydrogels for biomedical applications: Mechanical characterization and drug delivery properties

Mercaldi MP, Dams-Kozłowska H, Panilaitis B, Joyce AP, Kaplan DL*// *Tufts Univ, Dept Chem & Biol Chem, Medford, MA 02155, USA
Biomacromolecules 2008 **9** (7) 1988
 Discovery of the dual polysaccharide composition of emulsan and the isolation of the emulsion stabilizing component

- Minato K// Miyagi Univ, Sch Food Agric & Environm Sci, Sendai, Miyagi 982 0215, Japan
Int J Med Mushrooms 2008 **10** (3) 235
 Immunomodulation activity of a polysaccharide fraction of a culinary-medicinal mushroom, *Pleurotus citrinopileatus* Singer (Agaricomycetidae), *in vitro*
- Ojima N, Shimizu Y, Omoto T, Shimomura K// Toyo Univ, Grad Sch Life Sci, 1-1-1 Izumino, Itakura, Gunma 374 0193, Japan
Food Sci Technol Res 2008 **14** (4) 403
 Characteristics of new contact plate prepared with native gellan gum
- Richard A, Barras A, Ben Younes A, Monfiliotte-Dupont N*, Melnyk P// *Univ Lille 2-Univ Lille 1-Inst Pasteur Lille, CNRS UMR 8161, Lab Chim MicroNanotechnol Vise Therapeutique, FR-59021 Lille, France
Bioconj Chem 2008 **19** (7) 1491
 Minimal chemical modification of reductive end of dextran to produce an amphiphilic polysaccharide able to incorporate onto lipid nanocapsules
- Sun YX, Liu JC// Qiqihar Med Univ, Dept Pharmacol, CN-161042 Qiqihar, Peoples Rep China
Vaccine 2008 **26** (31) 3932
 Adjuvant effect of water-soluble polysaccharide (PAP) from the mycelium of *Polyporus albicans* on the immune responses to ovalbumin in mice
- Tang YJ, Zhu LL, Liu RS, Li HM, Li DS, Mi ZY// Hubei Univ Technol, Hubei Province Key Lab Ind Microbiol, CN-430068 Wuhan, Peoples Rep China
Bioresour Technol 2008 **99** (16) 7606
 Quantitative response of cell growth and *Tuber* polysaccharides biosynthesis by medicinal mushroom Chinese truffle *Tuber sinense* to metal ion in culture medium
- Urayama K, Taoka Y, Nakamura K, Takigawa T// Kyoto Univ, Dept Material Chem, Kyoto 615 8510, Japan
Polymer 2008 **49** (15) 3295
 Markedly compressible behaviors of gellan hydrogels in a constrained geometry at ultraslow strain rates
- Van Leeuwen SS, Kralj S, Gerwig GJ, Dijkhuizen L, Kamerling JP// *Univ Utrecht, Dept Bioorgan Chem, Bijvoet Ctr, NL-3584 CH Utrecht, The Netherlands
Biomacromolecules 2008 **9** (8) 2251
 Structural analysis of bioengineered α -D-glucan produced by a triple mutant of the glucanucrase GTF180 enzyme from *Lactobacillus reuteri* strain 180: Generation of (α 1 $\rightarrow$ 4) linkages in a native (1 $\rightarrow$ 3)(1 $\rightarrow$ 6)- α -D-glucan
- Vesely J, Rydner L, Oscarson S// *Univ Coll Dublin, Ctr Synthesis & Chem Biol, Dublin 4, Rep Ireland
Carbohydr Res 2008 **343** (12) 2200
 Variant synthetic pathway to glucuronic acid-containing di- and trisaccharide thioglycoside building blocks for continued synthesis of *Cryptococcus neoformans* capsular polysaccharide structures
- Werning MI, Corrales MA, Prieto A, De Palencia PF, Navas J, Lopez P// *CSIC, Dept Ciencia Proteinas, Ramiro de Maeztu 9, ES-28040 Madrid, Spain
Appl Environ Microbiol 2008 **74** (16) 5259
 Heterologous expression of a position 2-substituted (1 $\rightarrow$ 3)- β -D-glucan in *Lactococcus lactis*
- Wondraczek H, Heinze T// *Univ Jena, Ctr Excellence Polysaccharide Res, Humboldtstr 10, DE-07743 Jena, Germany
Macromol Biosci 2008 **8** (7) 606
 Efficient synthesis and characterization of new photoactive dextran esters showing nanosphere formation
- Wu CY, Mau JL, Liang ZC// *Da Yeh Univ, Dept Bioresource, 112 Shan-Jiao Rd, Da Tsen 51591, Changhua, Taiwan
Int J Med Mushrooms 2008 **10** (3) 279
 The influence of cultivation conditions on mycelial growth and exopolysaccharide production of culinary-medicinal mushroom, *Pleurotus citrinopileatus* Singer (Agaricomycetidae)
- Yang P, Liang MH, Zhang YX, Shen BZ// *Fourth Affiliated Hosp, Harbin Med Coll, Dept Med Imaging, CN-150001 Harbin, Peoples Rep China
Adv Ther 2008 **25** (8) 787
 Clinical application of a combination therapy of lentinan, multi-electrode RFA and TACE in HCC
- Yu R, Yin Y, Yang W, Ma W, Yang L, Chen X, Zhang Z, Ye B, Song L// Jinan Univ, Coll Pharm, 601 Huangpu Ave West, CN-510632 Guangzhou, PR China
Carbohydr Polym 2009 **75** (1) 166
 Structural elucidation and biological activity of a novel polysaccharide by alkaline extraction from cultured *Cordyceps militaris*
- Yu Z, Yin L, Yang Q, Liu Y// Lanzhou Univ, Inst Stomatol, CN-730000 Lanzhou, Gansu Province, Peoples Rep China
Carbohydr Polym 2009 **75** (1) 115
 Effect of *Lentinus edodes* polysaccharide on oxidative stress, immunity activity and oral ulceration of rats stimulated by phenol
- Yuksekdag ZN, Aslim B// Gazi Univ, Fac Sci & Arts, Dept Biol, Ankara, Turkey
Braz Arch Biol Technol 2008 **51** (3) 581
 Influence of different carbon sources on exopolysaccharide production by *Lactobacillus delbrueckii* subsp *bulgaricus* (B3, G12) and *Streptococcus thermophilus* (W22)
- Zheng WF, Campbell BS, McDougall BA, Seviour RJ// Xuzhou Normal Univ, Key Lab Biotechnol Med Plants, CN-221116 Xuzhou, Peoples Rep China
Bioresour Technol 2008 **99** (16) 7480
 Effects of melanin on the accumulation of exopolysaccharides by *Aureobasidium pullulans* grown on nitrate

12. Polysaccharides - Plant

- Abdel-Mohdy FA, Abdel-Halim ES, Abu-Ayana YM*, El-Sawy SM// *Nat Res Ctr, Dept Polym & Pigments, Dokki, Cairo, Egypt
Carbohydr Polym 2009 **75** (1) 44
 Rice straw as a new resource for some beneficial uses
- Aboughe Angone S, Barbor M, Nguema-Ona E, Rihouey C, Ishii T, Lerouge P, Driouch A// *Univ Rouen, IFRMP23, CNRS FRE 3090, Lab Glycobiol & Matrice Extracell Veg, FR-76821 Mont-Saint Aignan, France
Carbohydr Polym 2009 **75** (1) 104
 Structural characterization of cell wall polysaccharides from two plant species endemic to central Africa, *Fleurya aestuans* and *Phragmenthera capitata*
- Alvarez-Mancenido F, Landin M*, Martinez-Pacheco R// *Univ Santiago de Compostela, Fac Farm, Dept Farm & Tecnol Farmaceut, ES-15782 Santiago de Compostela, Spain
Eur J Pharm Biopharm 2008 **69** (2) 573
 Konjac glucomannan/xanthan gum enzyme sensitive binary mixtures for colonic drug delivery
- An QD, Zhang GL, Wu HT, Zhang ZC, Gong W, Liu Y, Li XZ, Murata Y// *Okayama Univ, Grad Sch Nat Sci & Technol, 3-1-1 Tsushima Naka, Okayama 700 8530, Japan
Process Biochem 2008 **43** (8) 842
 Production and partial properties of alginate from newly isolated *Flavobacterium* sp LXA
- Barroso EMA, Costa LS, Medeiros VP, Cordeiro SL, Costa MSSP, Franco CRC, Nader HB, Leite EL, Rocha HAO// *Univ Fed Rio Grande do Norte, Dept Bioquim, Lab Biotechnol Polimeros Nat-BIOPOL, Natal, RN, Brazil
Planta Med 2008 **74** (7) 712
 A non-anticoagulant heterofucan has antithrombotic activity *in vivo*
- Chi AP, Chen JP, Wang ZZ, Xiong ZY, Li QX// MoE Key Lab Med Plants & Nat Resources Med Chem, 199 Changanan Rd, CN-710062 Xi'an, Shaanxi, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 868
 Morphological and structural characterization of a polysaccharide from *Gynostemma pentaphyllum* Makino and its anti-exercise fatigue activity
- Choi JH, Lee HY, Kim JC// *Kangwon Natl Univ, Sch Biotechnol & Bioengn, 192-1 Hyoja 2 dong, Chuncheon 200 701, Kangwon do, South Korea
J Appl Polym Sci 2008 **110** (1) 117
 Release behavior of freeze-dried alginate beads containing poly(*N*-isopropylamide) copolymers
- Cui H, Liu Q, Tao Y, Zhang H, Zhang L, Ding K// *Chinese Acad Sci, Shanghai Inst Materia Medica, Glycochem & Glycobiol Lab, 555 Zu Chong zhi Rd, Pudong, CN-201203 Shanghai, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 771
 Structure and chain conformation of a (1 $\rightarrow$ 6)- α -D-glucan from the root of *Pueraria lobata* (Willd.) Ohwi and the antioxidant activity of its sulfated derivative
- D'Melo DJ, Shenoy MA// *Univ Inst Chem Technol, Polymer Engn & Technol Div, Nathal Parikh Marg, Mumbai, India
Polym Bull 2008 **61** (2) 235
 Evaluation of mechanical properties of acrylated guar gum - unsaturated polyester composites
- Elmowafy EM, Awad GAS*, Mansour S, El-Shamy AEA// *Ain Shams Univ, Fac Pharm, Dept Pharmaceut, Monazamet El Wehda El Afrikia St, El Abbassia, Cairo, Egypt
Carbohydr Polym 2009 **75** (1) 135
 Ionotropically emulsion gelled polysaccharides beads: Preparation, *in vitro* and *in vivo* evaluation
- Escudero RR, Robitzer M, Di Renzo F*, Quignard F// *Inst Charles Gerhardt Montpellier, ENSCM, UMR 5253 CNRS-UM2-ENSCM-UMI, Materiaux Avances Catalyse & Sante, 8 rue Ecole Normale, FR-34296 Montpellier 5, France
Carbohydr Polym 2009 **75** (1) 52
 Alginate aerogels as adsorbents of polar molecules from liquid hydrocarbons: Hexanol as probe molecule
- Fahmy TYA, Mobarak F, Kassem N, Abdel-Kader AH// Nat Res Ctr, Cell & Paper Dept, El-Tahrir St, Dokki, Cairo, Egypt
Carbohydr Polym 2008 **74** (4) 892
 New approach for upgrading pulp & paper quality: Mild potassium permanganate treatment of already bleached pulps
- Feng T, Gu ZB*, Jin ZY, Zhuang HN// *Stn Yangtze Univ, Nalt Key Lab Food Sci & Safety, CN-214122 Wuxi, Peoples Rep China
Cereal Chem 2008 **85** (4) 550
 Physical changes of *Mesona blumes* gum/starch mixed gel with sugars

- Freeman I, Kedem A, Cohen S// *Ben Gurion Univ Negev, Dept Biotechnol Engn, Bldg 39, Rm 222, IL-84105 Beer Sheva, Israel
Biomaterials 2008 **29** (22) 3260
The effect of sulfation of alginate hydrogels on the specific binding and controlled release of heparin-binding proteins
- Gurgel LVA, De Freitas RP, Gil LF// *Univ Fed Ouro Preto, Inst Ciencias Exatas & Biol, Dept Quim, BR-35400-000 Ouro Preto, Minas Gerais, Brazil
Carbohydr Polym 2008 **74** (4) 922
Adsorption of Cu(II), and Cd(II), and Pb(II) from aqueous single metal solutions by sugarcane bagasse and mercerized sugarcane bagasse chemically modified with succinic anhydride
- Gustaw W// Univ Life Sci Lublin, Dept Milk Technol & Hydrocolloids, Skromna 8, PL-20950 Lublin, Poland
Milchwissenschaft 2008 **63** (3) 296
The effect of an oat- β -glucan addition on the physico-chemical properties of set yoghurt
- Hojie A, Sternemalm E, Heikkinen S, Tenkanen M, Gatenholm P// *Chalmers Univ Technol, Dept Chem & Biol Engn, SE-41296 Gothenburg, Sweden
Biomacromolecules 2008 **9** (7) 2042
Material properties of films from enzymatically tailored arabinoxylans
- Hua S, Wang A// *Chinese Acad Sci, Lanzhou Inst Chem Phys, Ctr Eco-material & Green Chem, Tianshui Rd 342, CN-730000 Lanzhou, Peoples Rep China
Carbohydr Polym 2009 **75** (1) 79
Synthesis, characterization and swelling behaviors of sodium alginate-g-poly(acrylic acid)/sodium humate superabsorbent
- Hwang HJ, Kwon MJ, Kim IH, Nam TJ// *Pukyong Natl Univ, Dept Food Sci & Biotechnol, Pusan 608 737, South Korea
Food Chem Toxicol 2008 **46** (8) 2653
The effect of polysaccharide extracted from the marine alga *Capsosiphon fulvescens* on ethanol administration
- Ibrahim MM, Mobarak F, El-Din EIS, Ebaid AEE, Youssef MA// Nat Res Ctr, Cellulose & Paper Dept, El-Tahrir St, Dokki, Giza, Egypt
Carbohydr Polym 2009 **75** (1) 130
Modified Egyptian talc as internal sizing agent for papermaking
- Ibrahim NA, El-Hossamy M, Hashem MM, Refai R, Eid BM// Nat Res Ctr, Textile Res Div, El-Behouth St, Cairo, Egypt
Carbohydr Polym 2008 **74** (4) 880
Novel pre-treatment processes to promote linen-containing fabrics properties
- Karaiskou S, Blekas G, Paraskevopoulou A// *Aristotle Univ Thessaloniki, Sch Chem, Food Chem & Technol Lab, GR-54124 Thessaloniki, Greece
Food Res Int 2008 **41** (6) 637
Aroma release from gum arabic or egg yolk/xanthan-stabilized oil-in-water emulsions
- Koizumi H, Kato Y, Ogawa T// Kirin Holdings Co Ltd, Cent Labs Frontier Technol, Yokohama, Kanagawa, Japan
J Am Soc Brew Chemist 2008 **66** (3) 137
Barley malt polysaccharides inducing premature yeast flocculation and their possible mechanism
- Kuda T, Ikemori T// Ishikawa Prefectural Univ, Dept Food Sci, 1-308 Suematsu, Nonoichi, Ishikawa 921 8836, Japan
Food Chem 2009 **112** (3) 575
Minerals, polysaccharides and antioxidant properties of aqueous solutions obtained from macroalgal beach-casts in the Noto Peninsular, Ishikawa, Japan
- Lee S, Bae IY, Jung JH, Jang KI, Kim YW, Lee HG// *Hanyang University, Dept Food & Nutr, 17 Haengdang dong, Seongdong gu, Seoul 133 791, South Korea
J Texture Stud 2008 **39** (4) 393
Physicochemical, textural and noodle-making properties of wheat dough containing alginate
- Liang R// Taizhou Univ, Sch Life Sci, CN-317000 Taizhou City, Zhejiang, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 858
Optimization of extraction process of *Glycyrrhiza glabra* polysaccharides by response surface methodology
- Liu D, Han G*, Huang J, Zhang Y// *Qingdao Univ, Growing Base State Key Lab, Lab New Fiber Materials & Modern Textile, CN-266071 Qingdao, Peoples Rep China
Carbohydr Polym 2009 **75** (1) 39
Composition and structure study of natural *Nelumbo nucifera* fiber
- Liu FY, Carlos LD*, Ferreira RAS, Rocha J, Gaudino MC, Robitzer M, Quignard F// *UMR 5253 CNRS-ENSCM-UM2-UM1, Inst Charles Gerhardt Montpellier, Matériaux Avances Catalyse & Sante, FR-34296 Montpellier, France
Biomacromolecules 2008 **9** (7) 1945
Photoluminescent porous alginate hybrid materials containing lanthanide ions
- Lopez-Franco YL, De la Barca AMC, Valdez MA, Peter MG, Rinaudo M, Chambat G, Goycoolea FM// *CIAD AC, Ctr Invest Alimentacion & Desarrollo AC, Lab Biopolymer, POB 1735, MX-83000 Hermosillo, Sonora, Mexico
Macromol Biosci 2008 **8** (8) 749
Structural characterization of mesquite (*Prosopis velutina*) gum and its fractions
- Lv Y, Yang X*, Zhao Y, Ruan Y, Yang Y, Wang Z// *Shaanxi Normal Univ, Coll Life Sci, MoE Key Lab Med Plant Resource & Natl Pharmaceut Chem, CN-710062 Xian, Peoples Rep China
Food Chem 2009 **112** (3) 742
Separation and quantification of component monosaccharides of the tea polysaccharides from *Gynostemma pentaphyllum* by HPLC with indirect UV detection
- Mao WJ, Fang F, Li HY, Qi XH, Sun HH, Chen Y, Guo SD// Ocean Univ China, Inst Marine Drug, 5 Yushan Rd, CN-266003 Qingdao, Shandong, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 834
Heparinoid-active two sulfated polysaccharides isolated from marine green algae *Monostroma nitidum*
- Meena R, Prasad K, Ganesan M, Siddhanta AK// *Cent Salt & Marine Chem Res Inst, Marine Biotechnol & Ecol Discipline, IN-364002 Bhavnagar, Gujarat, India
J Appl Phycol 2008 **20** (4) 397
Superior quality agar from *Gracilaria* species (Gracilariales, Rhodophyta) collected from the Gulf of Mannar, India
- Nagamine T, Takada H, Kusakabe T, Nakazato K, Sakai T, Oikawa M, Kamiya T, Arakawa K, Iha M// Gunma Univ, Fac Med, Sch Hlth Sci, Maebashi, Gunma 371 8514, Japan
Biol Tr Elem Res 2008 **124** (1) 60
Intracellular changes of metal elements by fucoidan extracted from brown seaweed (*Cladophora okamurae*)
- Niu AJ, Wu JM, Yu DH, Wang R// Guangzhou Sport Univ, Wushu Dept, CN-510500 Guangzhou, Peoples Rep China
Int J Biol Macromol 2008 **42** (5) 447
Protective effect of *Lycium barbarum* polysaccharides on oxidative damage in skeletal muscle of exhaustive exercise rats
- Odeku OA// Univ Ibadan, Fac Pharm, Dept Pharmaceut & Ind Pharm, Ibadan, Nigeria
J Drug Deliv Sci Technol 2008 **18** (3) 215
Effects of *Albizia* gum and gelatin on interacting variables affecting the mechanical and release properties of paracetamol tablets
- Park C, Lim KH, Kwon D, Yoon TH// *Hanyang Univ, Dept Chem, Lab Nanoscale Characterization & Environm Chem, Seoul 133 791, South Korea
Bull Korean Chem Soc 2008 **29** (6) 1277
Biocompatible quantum dot nanocolloids stabilized by gum arabic
- Patel TR, Morris GA*, Ebringerova A, Vodenicarova M, Velebny V, Ortega A, Garcia De la Torre J, Harding SE// *Univ Nottingham, Nat Ctr Macromol Hydrodynam, Sutton Bonington Campus, Sutton Bonington LE12 5RD, England
Carbohydr Polym 2008 **74** (4) 845
Global conformation analysis of irradiated xyloglucans
- Queiroz KCS, Medeiros VP, Queiroz LS, Abreu LRD, Rocha HAO, Ferreira CV, Juca MB, Aoyama H, Leite EL// *Univ Fed Rio Grande do Norte, Dept Bioquim, Lab Glicobiol, Ctr Biociencias, BR-59072-970 Natal, RN, Brazil
Biomed Pharmacother 2008 **62** (5) 303
Inhibition of reverse transcriptase activity of HIV by polysaccharides of brown algae
- Roos AA, Edlund U, Sjöberg J, Albertsson AC, Stalbrand H// *Lund Univ, Dept Biochem, POB 124, SE-22100 Lund, Sweden
Biomacromolecules 2008 **9** (8) 2104
Protein release from galactoglucomannan hydrogels: Influence of substitutions and enzymatic hydrolysis by β -mannanase
- Sakai S, Yamaguchi S, Takei T, Kawakami K// Kyushu Univ, Fac Engn, Dept Chem Engn, 744 Motoooka, Nishi ku, Fukuoka 819 0395, Japan
Biomacromolecules 2008 **9** (7) 2036
Oxidized alginate-cross-linked alginate/gelatin hydrogel fibers for fabricating tubular constructs with layered smooth muscle cells and endothelial cells in collagen gels
- Sandolo C, Matricardi P, Alhaique F, Coviello T// *Univ Rome La Sapienza, Fac Pharm, Dept Chem & Technol Biol Active Compounds, Ple Aldo Moro 5, IT-00185 Rome, Italy
Food Hydrocolloid 2009 **23** (1) 210
Effect of temperature and cross-linking density on rheology of chemical cross-linked guar gum at the gel point
- Silva RMP, Manso JPH, Rodrigues JRC, Lagoa RJL// *Polytech Inst Leiria, Sch Technol & Management, PT-2401-951 Leiria, Portugal
J Environ Sci Health A 2008 **43** (11) 1311
A comparative study of alginate beads and an ion-exchange resin for the removal of heavy metals from a metal plating effluent
- Tian DT, Xie HQ// Huazhong Univ Sci & Technol, Dept Chem, CN-430074 Wuhan, Peoples Rep China
Polym Bull 2008 **61** (3) 277
Synthesis and flocculation characteristics of konjac glucomannan-g-polyacrylamide
- Tommonaro G, Poli A, De Rosa S, Nicolaus B// CNR, Inst Chim Biomol, Via Campi Flegrei 34, IT-80078 Naples, Italy
Molecules 2008 **13** (6) 1384
Tomato derived polysaccharides for biotechnological applications: Chemical and biological approaches

- Toneli JTDL, Park KJ, Murr FEX, Martinelli PO// Fed Univ ABC, Ctr Engn Modeling & Social Appl Sci, Rua Catequese 242, Bairro Jardim, BR-09090-400 Santo Andre, SP, Brazil
J Texture Stud 2008 **39** (4) 369
 Rheological behavior of concentrated inulin solution: Influence of soluble solids concentration and temperature
- Totosaus A, Guemes-Vera N// Tecnol Estudios Super Ecatepec, Food Sci Lab, Av Tecnológico s/n, MX-55210 Ecatepec, Mexico
Int J Food Prop 2008 **11** (3) 656
 Effect of κ - and λ -carrageenans as fat-replacers in low-fat Oaxaca cheese
- Umoren SA// Univ Uyo, Fac Sci, Dept Chem, POB 4271, Uniuoyo PO, Uyo, Nigeria
Cellulose 2008 **15** (5) 751
 Inhibition of aluminium and mild steel corrosion in acidic medium using gum arabic
- Vetvicka V, Vetvickova J, Frank J, Yvin JC// Univ Louisville, Dept Pathol, 511 Sth Floyd, MDR Bldg, Louisville, Ky 40202, USA
Biomed Pharmacother 2008 **62** (5) 283
 Enhancing effects of new biological response modifier β -1,3 glucan sulfate PS3 on immune reactions
- Vincekovic M, Bujan M, Smit I, Tusek-Bozic L, Tsiourvas D, Sikiric MD// University Zagreb, Fac Agric, Dept Chem, Svetosimunska 25, HR-10000 Zagreb, Croatia
J Disper Sci Tech 2008 **29** (7) 966
 Influence of dodecylammonium chloride on the properties of carrageenan gels
- Yang XB, Zhao Y, Yang Y, Ruan Y// Shaanxi Normal Univ, Coll Life Sci, MoE Key Lab Med Plant Resource & Nat Pharm Chem, CN-710062 Xian, Peoples Rep China
J Agric Food Chem 2008 **56** (16) 6905
 Isolation and characterization of immunostimulatory polysaccharide from an herb tea, *Gynostemma pentaphyllum* Makino
- Yebeyen D, Lemenih M*, Feleke S// *Wondo Genet Coll Forestry, PO Box 128, Shashamane, Ethiopia
Food Hydrocolloid 2009 **23** (1) 175
 Characteristics and quality of gum arabic from naturally grown *Acacia senegal* (Linne) Willd. trees in the Central Rift Valley of Ethiopia
- Yuan JF, Zhang ZQ*, Fan ZC, Yang JX// *Shaanxi Normal Univ, MoE Key Lab Med Plant Resources & Nat Pharm Chem, 199 Sth Chang'an Rd, CN-710062 Xian, Shaanxi, Peoples Rep China
Carbohydr Polym 2008 **74** (4) 822
 Antioxidant effects and cytotoxicity of three purified polysaccharides from *Ligusticum chuanxiong* Hort
- Zhao X, Xue CH*, Li BF// *Ocean University China, College Food Science & Technology, 5 Yu Shan Road, CN-266003 Qingdao, Shandong, Peoples Rep China
J Appl Phycol 2008 **20** (4) 431
 Study of antioxidant activities of sulfated polysaccharides from *Laminaria japonica*
- Ziaie-Shirkolaei Y, Talebizadeh A, Soltanali S// Univ Tehran, Fac Engn, Dept Chem Engn, POB 11365-4563, Tehran, Iran
Bioresour Technol 2008 **99** (16) 7433
 Comparative study on application of *T. lanuginosus* SSBP xylanase and commercial xylanase on biobleaching of non wood pulps
- ### 13. Polysaccharides - Other
- Adersjo L, Hjartstam J, Bergenstahl B, Nilsson L*// *Lund Univ, Fac Engn LTH, Div Food Technol, POB 124, SE-22100 Lund, Sweden
Langmuir 2008 **24** (16) 8923
 Addition of polysaccharides influences colloidal interactions during latex film formation along with film morphology and permeability
- Attama AA, Akpa PA*// *Univ Nigeria, Fac Pharmaceut Sci, Dept Pharmaceut, NG-410001 Nsukka, Enugu State, Nigeria
J Drug Deliv Sci Technol 2008 **18** (3) 219
 Determination of the amorphicity and glass transition temperatures (T_g) of some natural polysaccharides
- Bras NF, Cerqueira NMFS*, Fernandes PA, Ramos MJ// *Fac Quim, Dept Quim, REQUIMTE, PT-4169-007 Oporto, Portugal
Int J Quantum Chem 2008 **108** (11) 2030
 Carbohydrate-binding modules from family 11: Understanding the binding mode of polysaccharides
- Di Meo C, Panza L, Campo F, Capitani D, Mannina L, Banzato A, Rondina M, Rosato A*, Crescenzi V// *Ist Oncol Veneto, Padua, Italy
Masacromol Biosci 2008 **8** (7) 670
 Novel types of carborane-carrier hyaluronan derivatives via "click chemistry"
- Gautier C, Abdul-Arabi N, Roux C, Lopez PJ, Livage J, Coradin T*// *Univ P&M Curie, Chim Materiere Condensee Paris, CNRS-UMR 7574, FR-75005 Paris, France
Colloid Surface B 2008 **65** (1) 140
 Biomimetic dual templating of silica by polysaccharide/protein assemblies
- Habibi Y, Dufresne A*// *Inst Natl Polytech Grenoble, Ecole Francaise Papeterie & Ind Graph, BP 65, FR-38402 St Martin d'Herès, France
Biomacromolecules 2008 **9** (7) 1974
 Highly filled bionanocomposites from functionalized polysaccharide nanocrystals
- Kaminski T, Siebrasse JP, Gieselmann V, Kubitschek U, Kappler J*// *Univ Bonn, Inst Physiol Chem, Nussallee 11, DE-53115 Bonn, Germany
Glycoconj J 2008 **25** (6) 555
 Imaging and tracking of single hyaluronan molecules diffusing in solution
- Kiss D, Suvegh K, Zelko R*// *Simmelweis Univ, Univ Pharm, Dept Pharm Admin, Hogyes Endre St 7/9, HU-1092 Budapest, Hungary
Carbohydr Polym 2008 **74** (4) 930
 The effect of storage and active ingredient properties on the drug release profile of poly(ethylene oxide) matrix tablets
- Kudaibergenova BM, Zhumagatieva SN, Beisebekov MK, Abilov ZA, Chaudkhari MI// Al Farabi Kazakh Natl Univ, Alma Ata, Kazakhstan
Russ J Appl Chem Eng Tr 2008 **81** (6) 1043
 Composite supports based on bentonite clay and polysaccharides
- Liu HM, Cheng SH, Liu J, Du YG, Bai ZH, Du YG*// *Chinese Acad Sci, Dalian Inst Chem Phys, Nat Prod & Glycoconjugate Res Grp 1805, CN-116023 Dalian, Peoples Rep China
J Agric Food Chem 2008 **56** (14) 5634
 Synthesis of pentasaccharide and heptasaccharide derivatives and their effects on plant growth
- Morinloto N, Qiu XP, Winnik FM*, Akiyoshi K// *University Montreal, Department Chem, CP 6128, Succursale Ctr-ville, Montreal, Quebec, Canada H3C 3J7
Macromolecules 2008 **41** (16) 5985
 Dual stimuli-responsive nanogels by self-assembly of polysaccharides lightly grafted with thiol-terminated poly(*N*-isopropylacrylamide) chains
- Mudarisova RK, Badykova LA, Borisov IM, Fatykhov AA, Medvedeva EN, Babkin VA, Monakov YB// Russian Acad Sci, Inst Organ Chem, Ufa Sci Ctr, pr Oktyabrya 71, RU-450054 Ufa, Bashkortostan, Russia
Russ J Phys Chem 2008 **82** (8) 1393
 The interaction of poly- and oligosaccharides based on arabinogalactan with 5-aminosalicylic acid
- Narchi I, Vial CH, Djelveh G// Univ Blaise Pascal, LGCB, 24 Ave des Landais, BP 206, FR-63174 Aubiere, France
Food Hydrocolloid 2009 **23** (1) 188
 Effect of protein-polysaccharide mixtures on the continuous manufacturing of foamed food products
- Nemati N, Karapetyan G, Nolting B, Endress HU, Vogel C*// *Univ Rostock, Inst Chem, Albert Einstein Str 3a, DE-18059 Rostock, Germany
Carbohydr Res 2008 **343** (10-11) 1730
 Synthesis of rhamnogalacturonan I fragments by a modular design principle
- Rawat A, Majumder QH, Ahsan F*// *Texas Technical University Health Science Center, Dept Pharmaceut Sci, 1300 Coulter Dr, Amarillo, Tx 79106, USA
J Controlled Release 2008 **128** (3) 224
 Inhalable large porous microspheres of low molecular weight heparin: *In vitro* and *in vivo* evaluation
- Rotureau E, Van Leeuwen HP// University Wageningen & Research Ctr, Lab Phys Chem & Colloid Sci, Dreijenplein 6, NL-6703 HB Wageningen, The Netherlands
J Phys Chem A 2008 **112** (31) 7177
 Kinetics of metal ion binding by polysaccharide colloids
- Shur J, Nevell TG, Shute JK, Smith JR*// *Univ Portsmouth, Inst Biomed & Biomol Sci, Sch Pharm & Biomed Sci, St Michaels Bldg, White Swan Rd, Portsmouth PO1 2DT, England
Drug Develop Ind Pharm 2008 **34** (6) 559
 The spray drying of unfractionated heparin: Optimization of the operating parameters
- Sriamornsak P, Kennedy RA*// *Charles Sturt Univ, Sch Biomed Sci, Locked Bag 588, Wagga Wagga, NSW 2678, Australia
Int J Pharm 2008 **358** (1-2) 205
 Swelling and diffusion studies of calcium polysaccharide gels intended for film coating
- Van der Vlist J, Reixach MP, Van der Maarel M, Dijkhuizen L, Schouten AJ, Loos K*// *University Groningen, Zernike Institute Advanced Materials, Department Polymer Chem, Nijenborgh 4, NL-9747 AG Groningen, The Netherlands
Macromol Rapid Commun 2008 **29** (15) 1293
 Synthesis of branched polyglucans by the tandem action of potato phosphorylase and *Deinococcus geothermalis* glycogen branching enzyme
- Wang SB, Cheng YN, Wang FS, Sun LR, Liu CH, Chen GJ, Li YH, Wars SG, Qu XJ*// *Shandong Univ, Sch Pharmaceut Sci, 44 Wen Hua Xi Rd, CN-250012 Jinan, Peoples Rep China
Biomed Pharmacother 2008 **62** (5) 297
 Inhibition activity of sulfated polysaccharide of *Sepiella maindroni* ink on matrix metalloproteinase (MMP)-2