

## Bibliography of carbohydrate polymers

(5 weeks journals. Search completed at 18th. July 2007)

### 2. Cellulose

Dogan N, McHugh TH// ARS, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA

*J Food Sci* 2007 **72** (1) E16

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Gavillon R, Budtova T// \*Ecole Mines Paris, CNRS UMR 7635, Ctr Mise Forme Materiaux, BP 207, FR-06904 Sophia Antipolis, France

*Biomacromolecules* 2007 **8** (2) 424

Kinetics of cellulose regeneration from cellulose-NaOH-water gels and comparison with cellulose-*N*-methylmorpholine-*N*-oxide-water solutions

Ishii D, Kanazawa Y, Tatsumi D\*, Matsumoto T// \*Kyoto Univ, Grad Sch Agr, Div Forest & Biomat Sci, Kyoto 606 8502, Japan

*J Appl Polym Sci* 2007 **103** (6) 3976

Effect of solvent exchange on the pore structure and dissolution behavior of cellulose

Kar M, Choudhury PK// Mohan Lal Sakhadia Univ, Dept Pharmaceut Sci, IN-313001 Udaipur, India

*Pharmazie* 2007 **62** (2) 122

Formulation and evaluation of ethyl cellulose microspheres prepared by the multiple emulsion technique

Kong K, Davies RJ, McDonald MA, Young RJ, Wilding MA, Ibbett RN, Eichhorn SJ// \*Univ Manchester, Sch Materials, Ctr Materials Sci, Grosvenor St, Manchester M1 7HS, England

*Biomacromolecules* 2007 **8** (2) 624

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Lazdina BO, Stirna UK, Tupureina VV, Sevastyanova IV, Dzene AV// Latvian State Inst Wood Chem, Dzerbenes St 27, LV-1006 Riga, Latvia

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Liu ZT, Fan XS, Wu J, Zhang LL, Song LP, Gao ZW, Dong WS, Xiong HP, Peng YD, Tang SW// Shaanxi Normal Univ, Sch Chem and Mat Sci, Key Lab Macromol Sci Shaanxi Prov, CN-710062 Xian, Peoples Rep China

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Lu YL, Mosier NS// \*Purdue Univ, Renewable Resources Engn Lab, West Lafayette, In 47907, USA

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Biomimetic catalysis for hemicellulose hydrolysis in corn stover

Murakami M, Kaneko Y, Kadokawa J// \*Kagoshima Univ, Grad Sch Sci & Engr, Department Nano-struct & Adv Materials, Korimoto, Kagoshima 890 0065, Japan

*Carbohydr Polym* 2007 **69** (2) 378

Preparation of cellulose-polymerized ionic liquid composite by *in-situ* polymerization of polymerizable ionic liquid in cellulose-dissolving solution

Rosell CM, Foegeding A// Inst Agrochem & Food Technol, IATA-CSIC, Food Sci Dept, PO Box 73, ES-46100 Burjassot, Valencia, Spain

*Food Hydrocolloid* 2007 **21** (7) 1092

Interaction of hydroxypropylmethylcellulose with gluten proteins: Small deformation properties during thermal treatment

Saupel O, Brezocnik M// University Maribor, Faculty Mechanical Engineering, Lab Characterizat & Processing Polymers, Smetanova 17, SI-2000 Maribor, Slovenia

*Mater Res Innov* 2006 **10** (1) 9

Study of crosslinking efficiency of cotton cellulose by different physical-chemical methods and genetic programming

Schoeck J, Davies RJ, Martel A, Riekel C// \*European Synchrotron Radiat Facility, BP 220, FR-38043 Grenoble, France

*Biomacromolecules* 2007 **8** (2) 602

Na-cellulose formation in a single cotton fiber studied by synchrotron radiation microdiffraction

Sequeira S, Evtuguin DV\*, Portugal I, Esculcas AP// \*Univ Aveiro, Dept Chem, CICECO, PT-3810-193 Aveiro, Portugal

*Mater Sci Eng C Biomim Supramol Syst* 2007 **27** (1) 172

Synthesis and characterisation of cellulose/silica hybrids obtained by heteropoly acid catalysed sol-gel process

Shen Q, Liu DS// Donghua Univ, State Key Lab Modification Chem Fibers & Polym Materials, 1882 West Yan An Rd, CN-200051 Shanghai, Peoples Rep China

*Carbohydr Polym* 2007 **69** (2) 293

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Valueva SV, Kipper AI, Kopeikin VV, Borovikova LN, Lavrent'ev VK, Ivanov DA, Filippov AP// Russian Acad Sci, Inst Macromol Cpds, Bolshoi pr 31, RU-199004 St Petersburg, Russia

*Polym Sci Ser A* 2006 **48** (8) 803

Formation and morphological characteristics of selenium-containing nanostructures based on rigid-chain cellulose derivatives

Vshivkov SA, Rusinova EV, Kudrevatykh NV, Galyas AG, Alekseeva MS, Kuznetsov DK// Ural State Univ, pr Lenina 51, RU-620083 Ekaterinburg, Russia

*Polym Sci Ser A* 2006 **48** (10) 1115

Phase transitions of hydroxypropylcellulose liquid-crystalline solutions in magnetic field

Werawatganone P, Wurster DE// \*Univ Iowa, Coll Pharm, Div Pharmaceut, Iowa City, Ia 52242, USA

*J Pharm Sci* 2007 **96** (2) 448

Determination of the hydrolysis kinetics of  $\alpha$ -naphthyl acetate in micellar systems and the effect of HPMC (catalyst present)

Yamaguchi M, Arakawa K// Japan Adv Inst Sci & Technol, Sch Mat Sci, Nomi, Ishikawa 923 129, Japan

*J Appl Polym Sci* 2007 **103** (5) 3447

Control of structure and mechanical properties for binary blends of poly(3-hydroxybutyrate) and cellulose derivative

### 3. Cellulose-degrading enzymes

Park S, Venditti RA\*, Abrecht DG, Jameel H, Pawlak JJ, Lee JM// \*Nth Carolina State Univ, Dept Wood & Paper Sci, Raleigh, NC 27695, USA

*J Appl Polym Sci* 2007 **103** (6) 3833

Surface and pore structure modification of cellulose fibers through cellulase treatment

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.

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Chitosan-based interpolymeric pH-responsive hydrogels for *in vitro* drug release
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Synthesis of cyanoethyl chitosan derivatives
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*Int J Pharm* 2007 **330** (1-2) 138  
Novel chitosan wound dressing loaded with minocycline for the treatment of severe burn wounds
- Arica MY, Yilmaz M, Bayramoglu G// Kirikkale Univ, Fac Sci, Biochem Processing & Biomat Res Lab, TR-71450 Kirikkale, Turkey  
*J Appl Polym Sci* 2007 **103** (5) 3084  
Chitosan-grafted poly(hydroxyethyl methacrylate-co-glycidyl methacrylate) membranes for reversible enzyme immobilization
- Aryana KJ, Beck MC// Louisiana State University, School Animal Science, Agric Center, Louisiana Agr Expt Stn, 115 Dairy Sci Bldg, Baton Rouge, La 70803, USA  
*Milchwissenschaft* 2007 **62** (1) 39  
Properties of low fat Cheddar cheese manufactured with chitosan
- Caner H, Yilmaz E, Yilmaz O// \*Eastern Mediterranean Univ, Fac Arts & Sci, Dept Chem, Via Mersin 10, Gazimagusa, Nth Cyprus, Turkey  
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- Chi WL, Qin CQ\*, Zeng LT, Li W, Wang W// \*Xiaogan Univ, Lab Nat Polysaccharides, CN-432100 Xiaogan, Peoples Rep China  
*J Appl Polym Sci* 2007 **103** (6) 3851  
Microbiocidal activity of chitosan-*N*-2-hydroxypropyl trimethyl ammonium chloride
- De Britto D, Assis OBG// Embrapa Instrumentacao Agropecuaria, Rua XV de Novembro 1452, CP 741, BR-13560-970 Sao Carlos, SP, Brazil  
*Carbohydr Polym* 2007 **69** (2) 305  
A novel method for obtaining a quaternary salt of chitosan
- Dou J, Tan C, Du Y\*, Bai X, Wang K, Ma X// \*Chinese Acad Sci, Dalian Inst Chem Phys, CN-116023 Dalian, Peoples Rep China  
*Carbohydr Polym* 2007 **69** (2) 209  
Effects of chitooligosaccharides on rabbit neutrophils *in vitro*
- Duan B, Wu LL, Li XR, Yuan XY\*, Li XL, Zhang Y, Yao KD// \*Tianjin University, School Material Science & Engn, CN-300072 Tianjin, Peoples Rep China  
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Degradation of electrospun PLGA-chitosan/PVA membranes and their cytocompatibility *in vitro*
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*J Appl Polym Sci* 2007 **103** (6) 3453  
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Low molecular weight chitosan - Preparation with the aid of pepsin, characterization, and its bacterial activity
- Kumari K, Kundu PP// \*Sant Longowal Inst Engr & Technol, Dept Chem Technol, IN-148106 Longowal, India  
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*In vitro* and *in vivo* tissue repair with laser-activated chitosan adhesive
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Graft polymerization of acrylamide on chitosan: Copolymer structure and properties
- Moczek L, Nowakowska M// \*Jagiellonian Univ, Fac Chem, Ingardena 3, PL-30060 Krakow, Poland  
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- Prabaharan M, Reis RL, Mano JF// \*Univ Minho, 3Bs Res Grp-Biomater Biodegradables & Biomimet, PT-4710-057 Braga, Portugal  
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Carboxymethyl chitosan-graft-phosphatidylethanolamine: Amphiphilic matrices for controlled drug delivery
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Optimum parameters for production of chitin and chitosan from squilla (*S. empusa*)
- Sankalia MG, Mashru RC, Sankalia JM, Sutariya VB// Maharaja Sayajitao Univ Baroda, Pharm Dept, Ctr Relevance & Excellence Novel, Drug Delivery Syst, IN-390002 Vadodara, India  
*Eur J Pharm Biopharm* 2007 **65** (2) 215  
Reversed chitosan-alginate polyelectrolyte complex for stability improvement of  $\alpha$ -amylase: Optimization and physicochemical characterization
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*Food Hydrocolloid* 2007 **21** (7) 1113  
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Tiyaboonchai W, Limpeanchob N// Naresuan Univ, Dept Pharmaceut Technol, TH-65000 Pitsanulok, Thailand  
*Int J Pharm* 2007 **329** (1-2) 142  
 Formulation and characterization of amphotericin B-chitosan-dextran sulfate nanoparticles

Wang Q, Dong Z, Du Y\*, Kennedy JF// \*Wuhan Univ, Dept Environm Sci, CN-430072 Wuhan, Peoples Rep China  
*Carbohydr Polym* 2007 **69** (2) 336  
 Controlled release of ciprofloxacin hydrochloride from chitosan/polyethylene glycol blend films

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Xiao JB// Cent Sth Univ Technol, Coll Chem & Chem Engn, CN-410083 Changsha, Peoples Rep China  
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Zhang J, Zhang ST, Wang YP\*, Gao SF// \*NW Normal Univ, Inst Polymers, CN-730070 Lanzhou, Peoples Rep China  
*J Appl Polym Sci* 2007 **103** (5) 3045  
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## 5. Cyclodextrins

Bjerre J, Fenger TH, Marinescu LG, Bols M// Aarhus Univ, Dept Chem, Langelandsgade 140, DK-8000 Aarhus, Denmark  
*Eur J Org Chem* 2007 (4) 704  
 Synthesis of some trifluoromethylated cyclodextrin derivatives and analysis of their properties as artificial glycosidases and oxidases

Charlot A, Auzely-Velty R// \*Univ Grenoble 1, CNRS, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble, France  
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Dean PM// Monash Univ, Dept Chem, Clayton, Vic 3800, Australia  
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 Structural and thermal characterization of cyclodextrin-suprofen complexes

Joung YK, Ooya T, Yamaguchi M, Yui N// \*Japan Adv Inst Sci & Technol, Sch Mat Sci, 1-1 Asahidai, Nomi, Ishikawa 923 129, Japan  
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*Macromolecules* 2007 **40** (4) 1011  
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Loftsson T, Duchene D// Univ Iceland, Fac Pharm, Hofsvallagata 53, IS-107 Reykjavik, Iceland  
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 Cyclodextrins and their pharmaceutical applications

Mannila J, Jarvinen T, Jarvinen K, Jarho P// Univ Kuopio, Dept Pharmaceut Chem, POB 1627, FI-70211 Kuopio, Finland  
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Panova IG, Topchieva IN// Moscow MV Lomonosov State Univ, Fac Chem, Leninskie gory, RU-119992 Moscow, Russia  
*Polym Sci Ser A* 2006 **48** (10) 1015

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*Int J Pharm* 2007 **330** (1-2) 73

Evaluation of various properties of alternative salt forms of sulfobutylether- $\beta$ -cyclodextrin, (SBE) (7M)- $\beta$ -CD

Valdivia A, Perez Y, Cao R\*, Banos M, Garcia A, Villalonga R// \*Univ Matanzas, Ctr Enzyme Technol, Autopista Varadero km 3.1/2, CU-44740 Matanzas, Cuba  
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Bienzymatic supramolecular complex of catalase modified with cyclodextrin-branched carboxymethylcellulose and superoxide dismutase: Stability and anti-inflammatory properties

Zhang XR, Zhang YF, Zhong DF\*, Chen Y, Li SM// \*Shenyang Pharmaceut Univ, Lab Drug Metab & Pharmacokinetic, CN-110016 Shenyang, Peoples Rep China  
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## 7. Lipopolysaccharides

Ali T, Weintraub A, Widmalm G// \*Univ Stockholm, Dept Organ Chem, Arrhenius Lab, SE-10691 Stockholm, Sweden  
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 Structural determination of the O-antigenic polysaccharide from *Escherichia coli* O166

Bushmarinov IS, Ovchinnikova OG\*, Kocharova NA, Toukach FV, Torzewska A, Shashkov AS, Knirel YA, Rozalski A// \*Russian Acad Sci, ND Zelinsky Inst Organ Chem, RU-119991 Moscow, Russia  
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## 8. Pectin

Drusch S// Univ Kiel, Inst Human Nutr & Food Sci, Heinrich-Hecht-Pl 10, DE-24118 Kiel, Germany  
*Food Hydrocolloid* 2007 **21** (7) 1223

Sugar beet pectin: A novel emulsifying wall component for microencapsulation of lipophilic food ingredients by spray-drying

Einhorn-Stoll U, Kunzek H, Dongowski G// Tech Univ Berlin, Food Sci & Food Chem, Food Qual & Mater Sci, Koenigin-Luise-Str 22, DE-14195 Berlin, Germany  
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Fishman ML, Cooke PH, Chau HK, Coffin DR, Hotchkiss AT// USDA/ARS, Crop Convers Sci & Engr Res Unit, Wyndmoor, Pa 19038, USA  
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Garna H, Mabon N, Robert C, Cornet C, Nott K, Legros H, Wathelet B, Paquot M// Fac Univ Sci Agron Gembloux, Unite Chim Biol Ind, Passage Deportes 2, BE-5030 Gembloux, Belgium  
*J Food Sci* 2007 **72** (1) C1

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Giosafatto CVL, Mariniello L\*, Ring S// \*Univ Naples Federico II, Dept Food Sci, IT-80055 Naples, Italy  
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- Besheer A, Hause G, Kressler J, Mader K// \*Univ Halle Wittenberg, Inst Pharmaceut Technol & Biopharm, Wolfgang Langenbeck Str 4, DE-06120 Halle, Germany  
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- Bolivar AI, Venditti RA\*, Pawlak JJ, El-Tahawy K// \*NC State Univ, Dept Wood & Paper Sci, Forest Biomaterials Sci & Engr, Raleigh, NC 27695, USA  
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