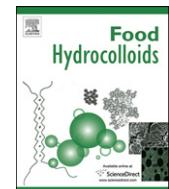




Food Hydrocolloids

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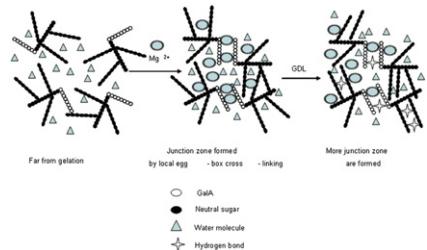
Graphical abstracts

The effects of MgSO₄, D-glucono- δ -lactone (GDL), sucrose, and urea on gelation properties of pectic polysaccharide from soy hull

Food Hydrocolloids 2013, 31, 137–145

He Liu, Xiaofei Guo, Jun Li, Danshi Zhu, Jianrong Li*

Institute of Food Science, School of Chemistry & Chemical Engineering and Food Safety, Bohai University, 19 Keji Road, Jinzhou 121013, China

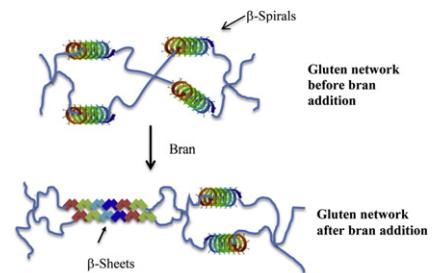


Bran-induced changes in water structure and gluten conformation in model gluten dough studied by Fourier transform infrared spectroscopy

Food Hydrocolloids 2013, 31, 146–155

Jayne E. Bock, Srinivasan Damodaran*

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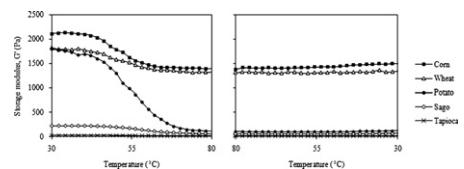


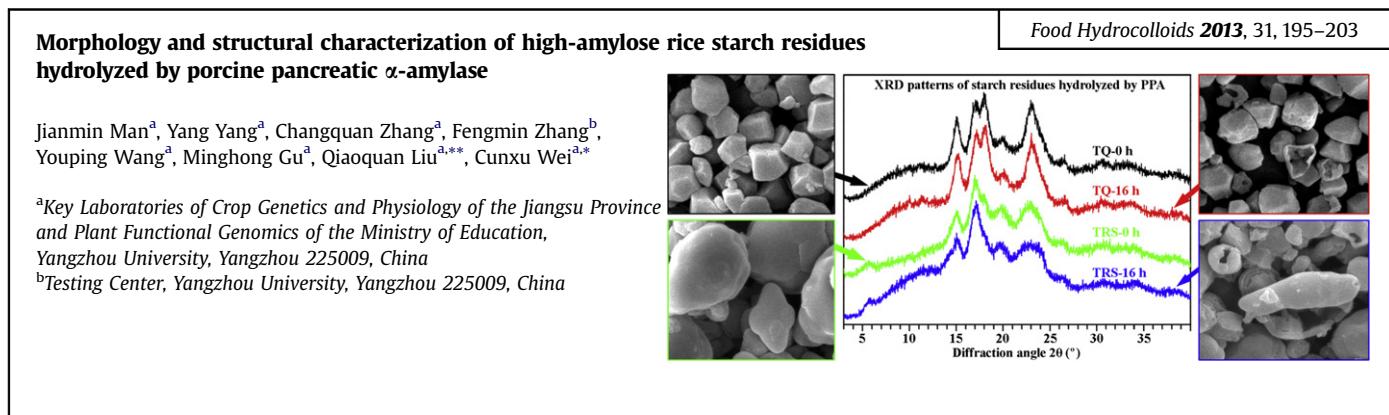
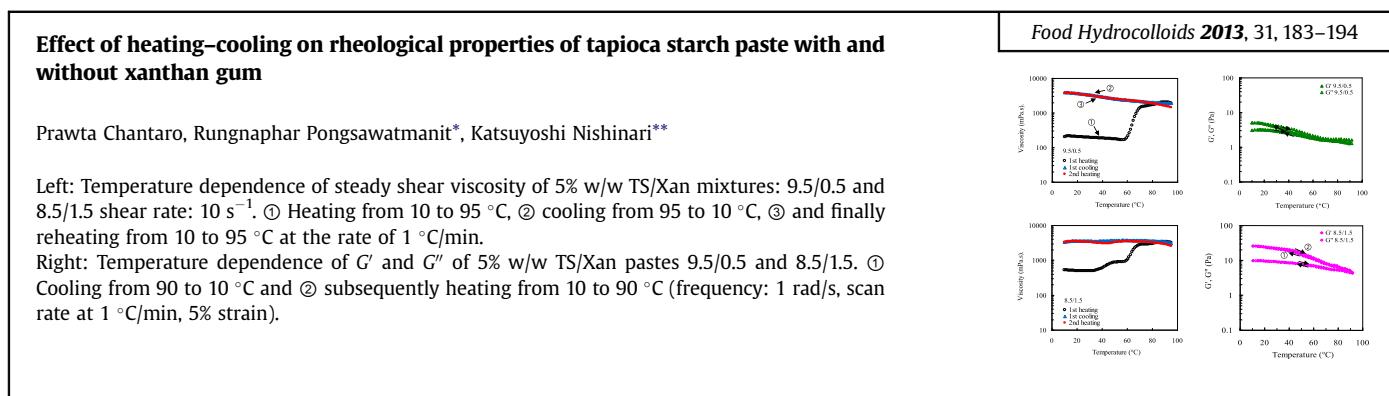
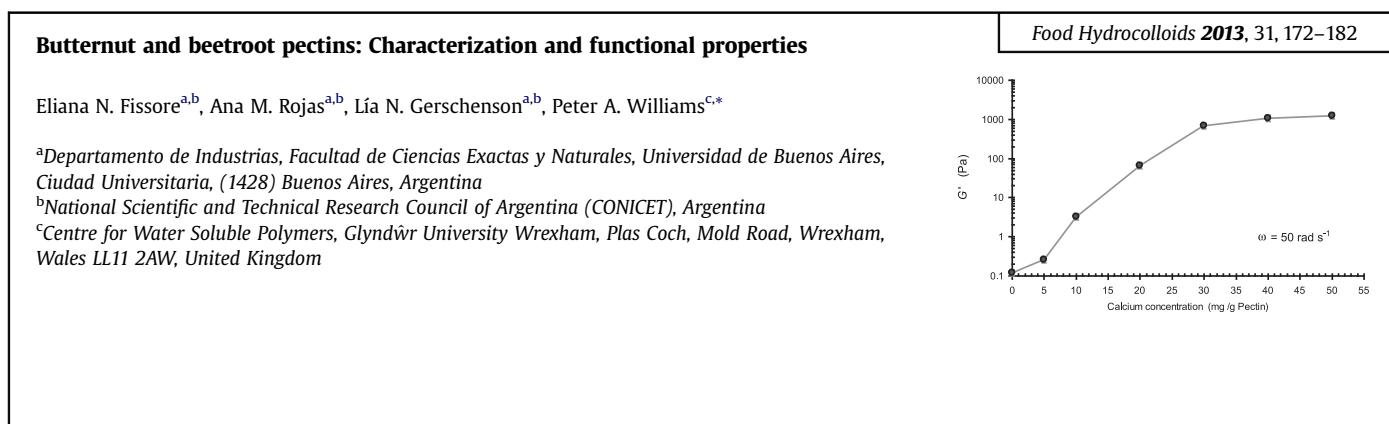
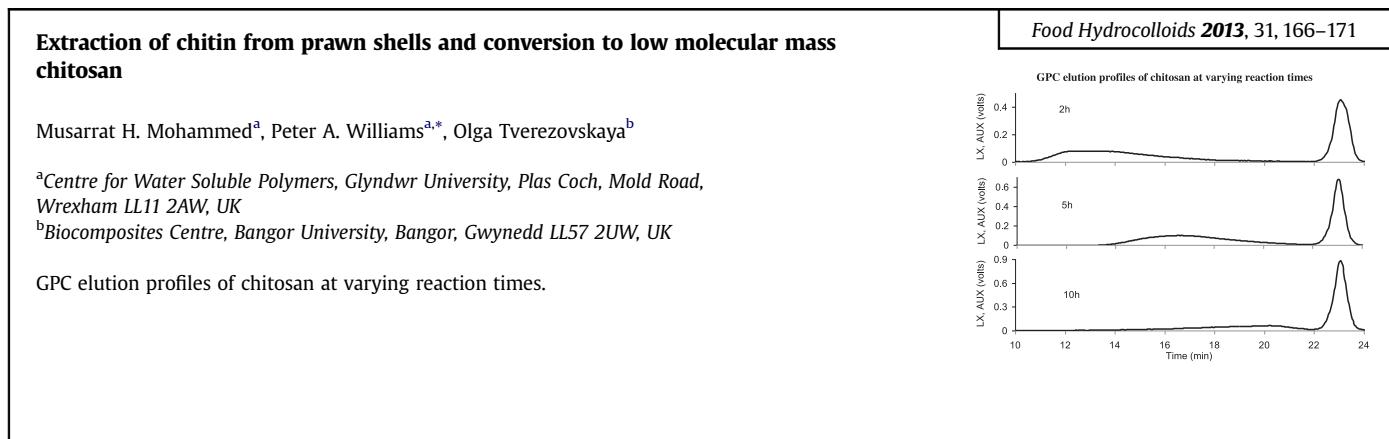
Rheological and textural studies of fresh and freeze-thawed native sago starch-sugar gels. II. Comparisons with other starch sources and reheating effects

Food Hydrocolloids 2013, 31, 156–165

L.Y. Teng, N.L. Chin*, Y.A. Yusof

Department of Process and Food Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia



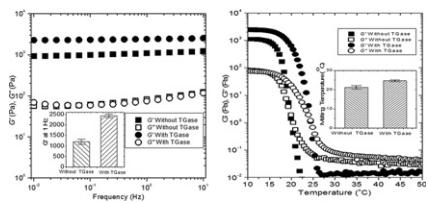


Optimization of gelatine gel preparation from New Zealand hoki (*Macruronus novaezealandiae*) skins and the effect of transglutaminase enzyme on the gel properties

Nor Fazliyana Mohtar, Conrad O. Perera*, Siew-Young Quek, Yacine Hemar

School of Chemical Sciences, Food Science Programme, The University of Auckland, Private Bag 92019, Auckland, New Zealand

Food Hydrocolloids 2013, 31, 204–209

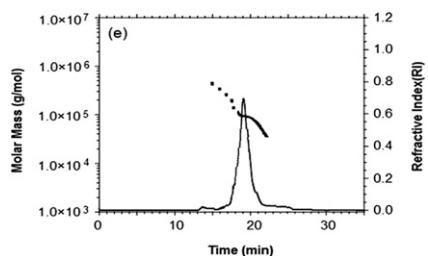


Effect of different drying methods on chemical and molecular structure of heteropolysaccharide–protein gum from durian seed

Hamed Mirhosseini*, Bahareh Tabatabaee Amid, Kok Whye Cheong

Department of Food Technology, Faculty of Food Science and Technology, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

Food Hydrocolloids 2013, 31, 210–219



SEC-MALS chromatograms representing the average molecular weight (M_w) of vacuum oven-dried gum vs. time.

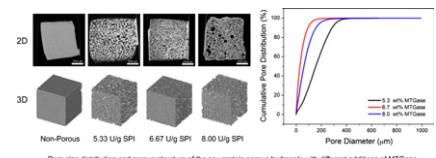
Computed microtomography and mechanical property analysis of soy protein porous hydrogel prepared by homogenizing and microbial transglutaminase cross-linking

Jian Guo^a, Yu-Cong Jin^a, Xiao-Quan Yang^{a,*}, Shu-Juan Yu^b, Shou-Wei Yin^a, Jun-Ru Qi^a

^aProtein Research and Development Center, College of Light Industry and Food Sciences, South China University of Technology, Guangzhou 510640, PR China

^bResearch and Development Center of Sugar, College of Light Industry and Food Sciences, South China University of Technology, Guangzhou 510640, PR China

Food Hydrocolloids 2013, 31, 220–226

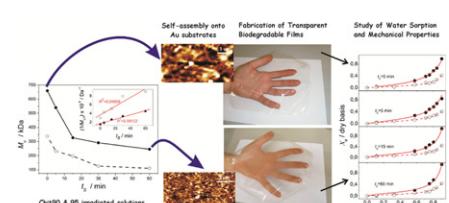


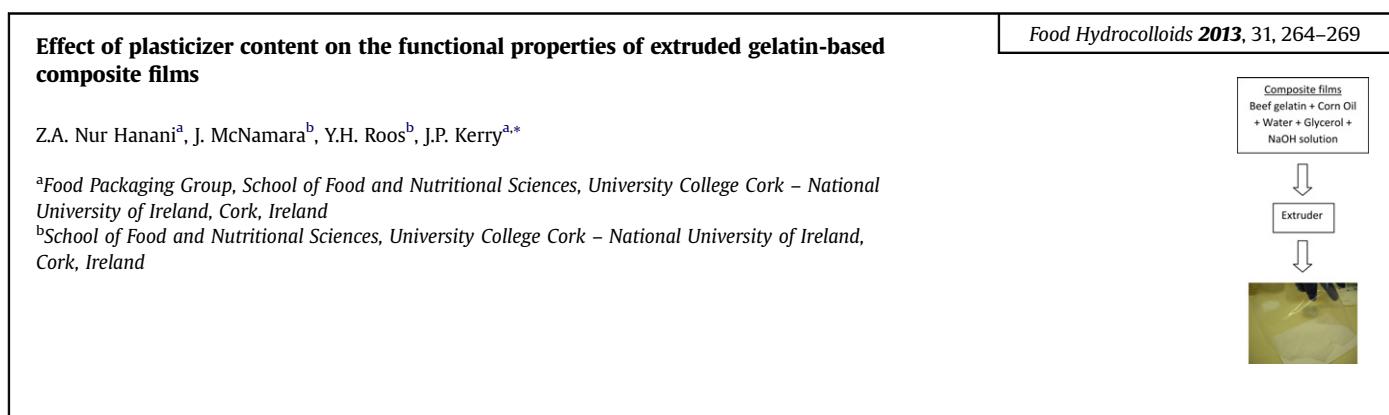
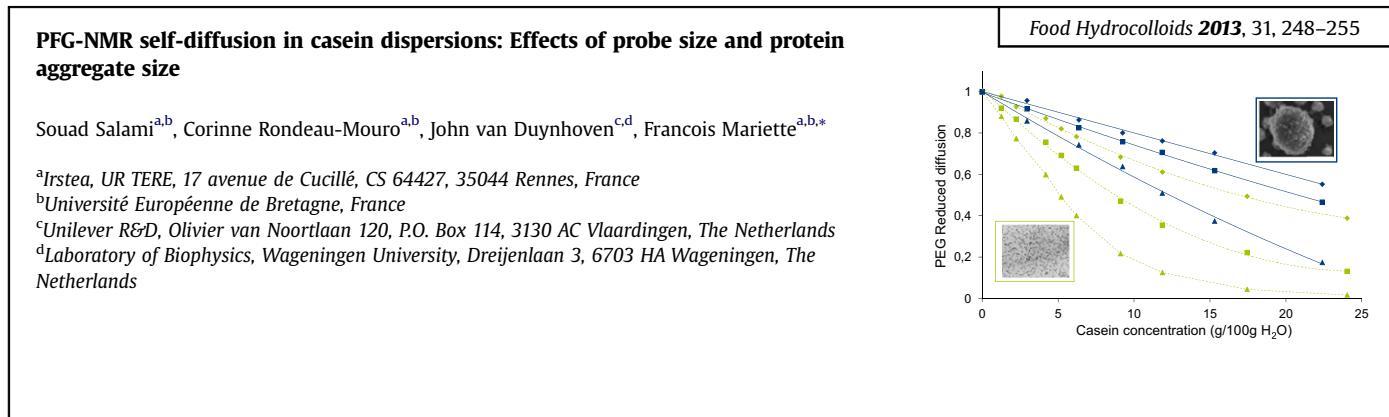
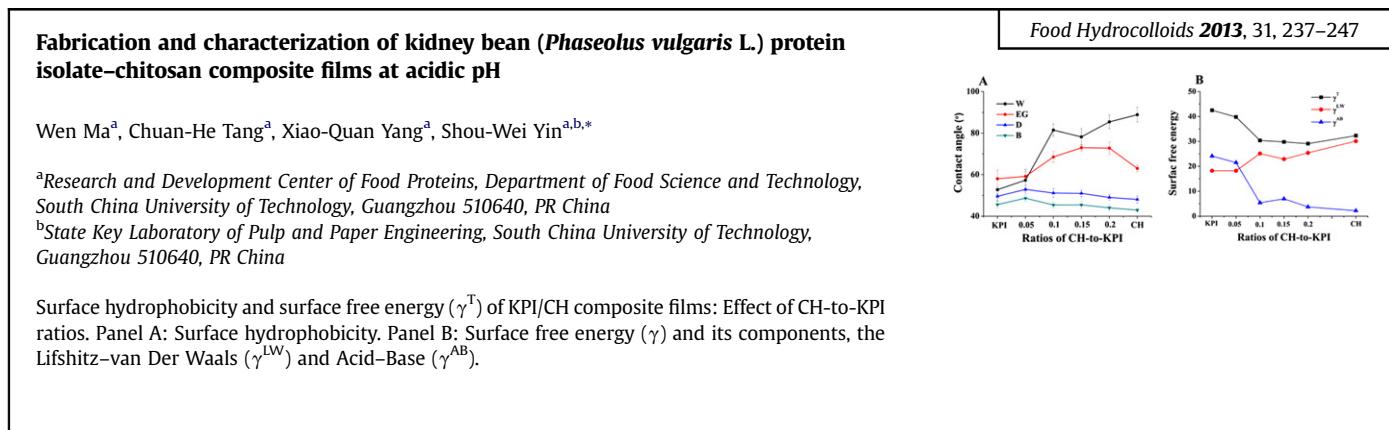
Ultrasound-assisted preparation of size-controlled chitosan nanoparticles: Characterization and fabrication of transparent biofilms

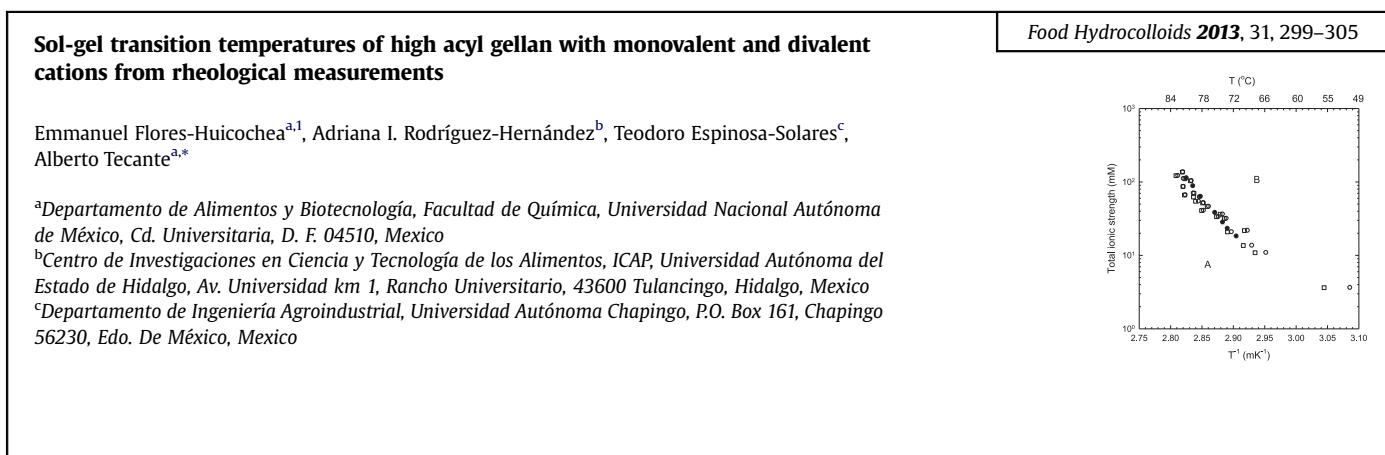
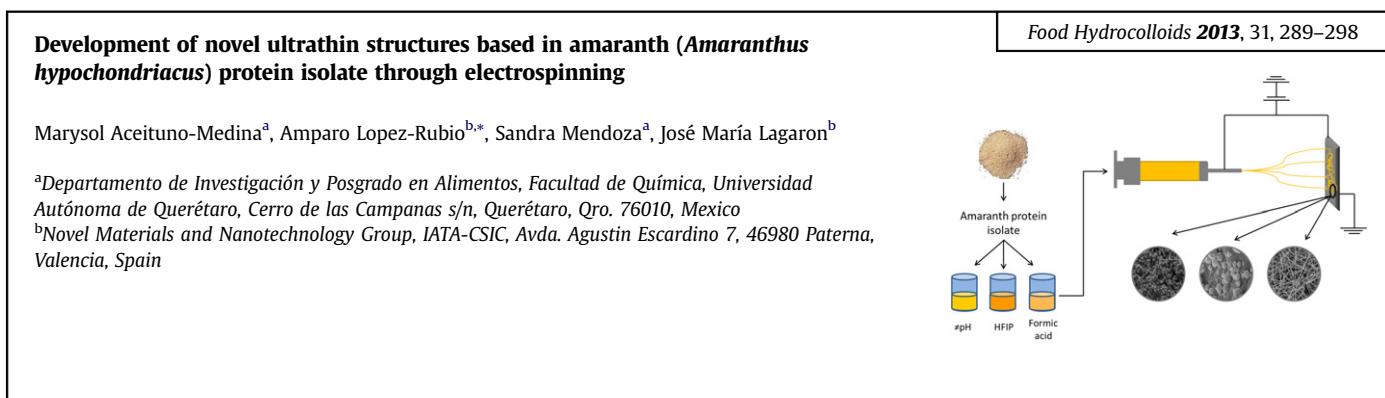
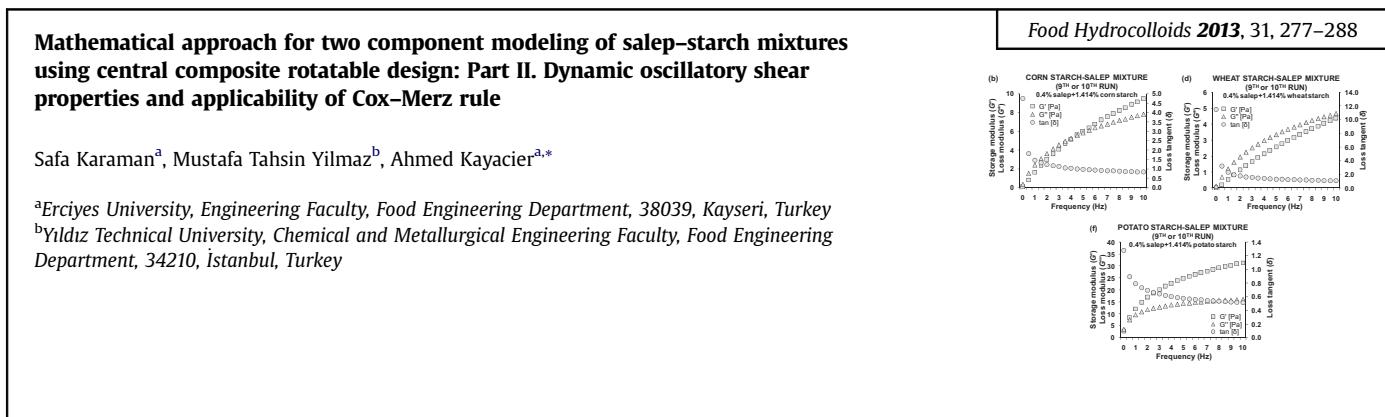
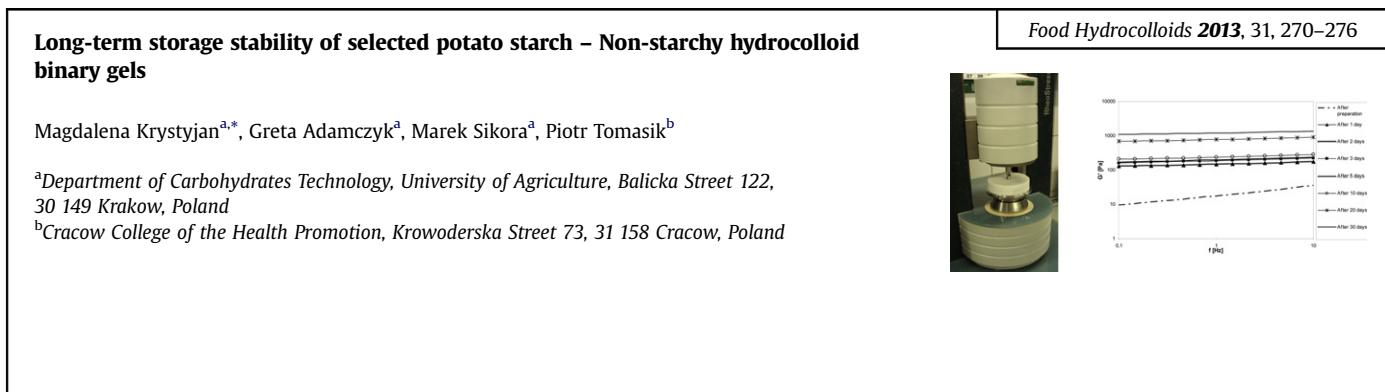
Hiléia K.S. Souza*, José M. Campiña**, Ana M.M. Sousa, Fernando Silva, Maria P. Gonçalves

Chitosans with different degree of deacetylation (DD) were fragmented under ultrasonic irradiation and characterized by rheological techniques. Then, the roles played by molecular mass and DD on the structural characteristics, moisture sensitivity, and mechanical properties of transparent plastic films of pure chitosan could be unveiled without interferences of plasticizers.

Food Hydrocolloids 2013, 31, 227–236







Sequential preheating and transglutaminase pretreatments improve stability of whey protein isolate at pH 7.0 during thermal sterilization

Qixin Zhong*, Wan Wang, Zhixiong Hu, Shinya Ikeda

Department of Food Science and Technology, The University of Tennessee, Knoxville, TN 37996, USA

Food Hydrocolloids 2013, 31, 306–316

Cold-set whey protein microgels for the stable immobilization of lipids

Thelma Egan^{a,b}, Jean-Christophe Jacquier^{a,*}, Yael Rosenberg^b, Moshe Rosenberg^b

^aInstitute of Food and Health, School of Agriculture and Food Science, University College Dublin, Belfield, Dublin 4, Ireland
^bDepartment of Food Science and Technology, University of California Davis, One Shields Avenue, Davis, CA 95616, USA

Food Hydrocolloids 2013, 31, 317–324

Acoustic emission measurement of rubbing and tapping contacts of skin and tongue surfaces in relation to tactile perception

George A. van Aken*

NIZO Food Research, Ede, the Netherlands

Food Hydrocolloids 2013, 31, 325–331

Development of carboxymethyl chitosan hydrogel beads in alcohol-aqueous binary solvent for nutrient delivery applications

Yangchao Luo, Zi Teng, Xiangan Wang, Qin Wang*

Department of Nutrition and Food Science, University of Maryland, 0112 Skinner Building, College Park, MD 20742, United States

Food Hydrocolloids 2013, 31, 332–339

Effects of plasticizers and nano-clay content on the physical properties of chicken feather protein composite films

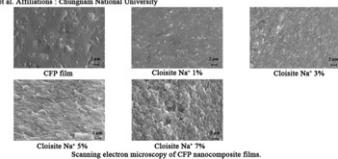
Food Hydrocolloids 2013, 31, 340–345

Nak-Bum Song^a, Wan-Shin Jo^a, Hye-Yeon Song^a, Kyung-Sook Chung^b, Misun Won^b, Kyung Bin Song^{a,*}

^aDepartment of Food Science and Technology, Chungnam National University, Daejeon 305-764, Republic of Korea

^bMedical Genomic Research Center, Korea Research Institute of Bioscience and Biotechnology, Daejeon 305-806, Republic of Korea

Title : Effects of plasticizers and nano-clay content on the physical properties of chicken feather protein/nano-clay composite films
Authors : Song et al. Affiliations : Chungnam National University



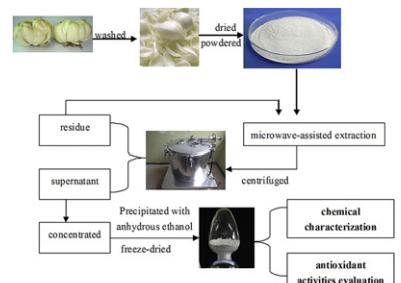
Food Hydrocolloids 2013, 31, 346–356

Microwave-assisted extraction, chemical characterization of polysaccharides from *Lilium davidii* var.*unicolor* Salisb and its antioxidant activities evaluation

Baotang Zhao^{a,b,c,*}, Ji Zhang^{a,b,c}, Xiao Guo^{b,c}, Junlong Wang^{b,c}

^cCollege of Life Science, Northwest Normal University, Lanzhou 730070, China

The polysaccharides from *Lilium davidii* var.*unicolor* Salisb was extracted by microwave-assisted extraction and its chemical characterization and antioxidative activity were investigated.

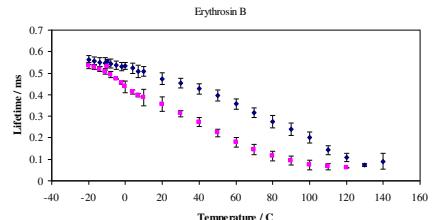


Effect of temperature on molecular mobility, oxygen permeability, and dynamic site heterogeneity in amorphous α -lactalbumin films

Food Hydrocolloids 2013, 31, 357–364

Rashmi Tiwari, Richard D. Ludescher*

Department of Food Science, Rutgers, The State University of New Jersey, New Brunswick, NJ 08901, USA



The influence of macromolecular architecture on the critical aggregation concentration of large amphiphilic starch derivatives

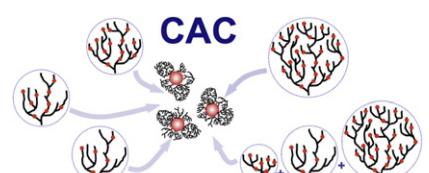
Food Hydrocolloids 2013, 31, 365–374

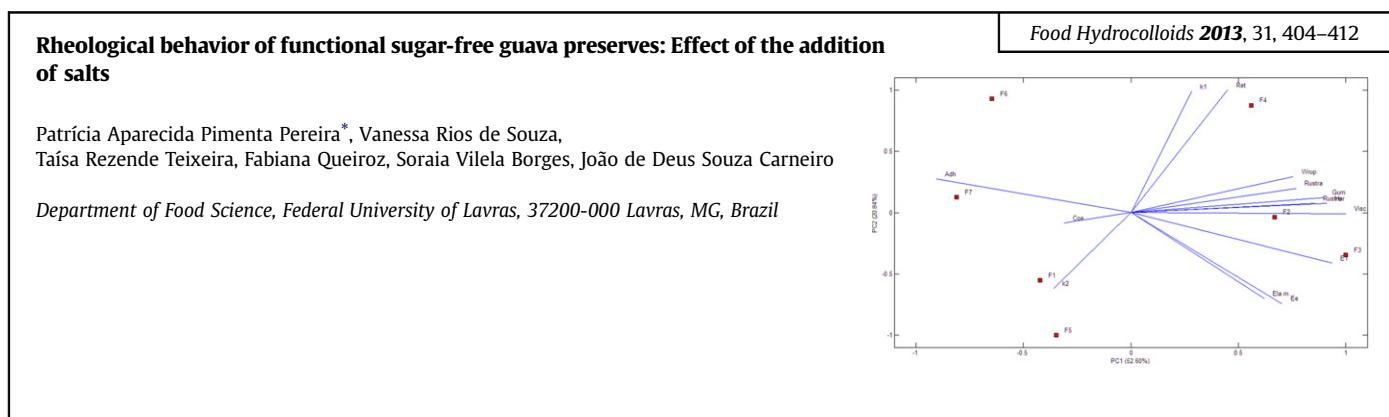
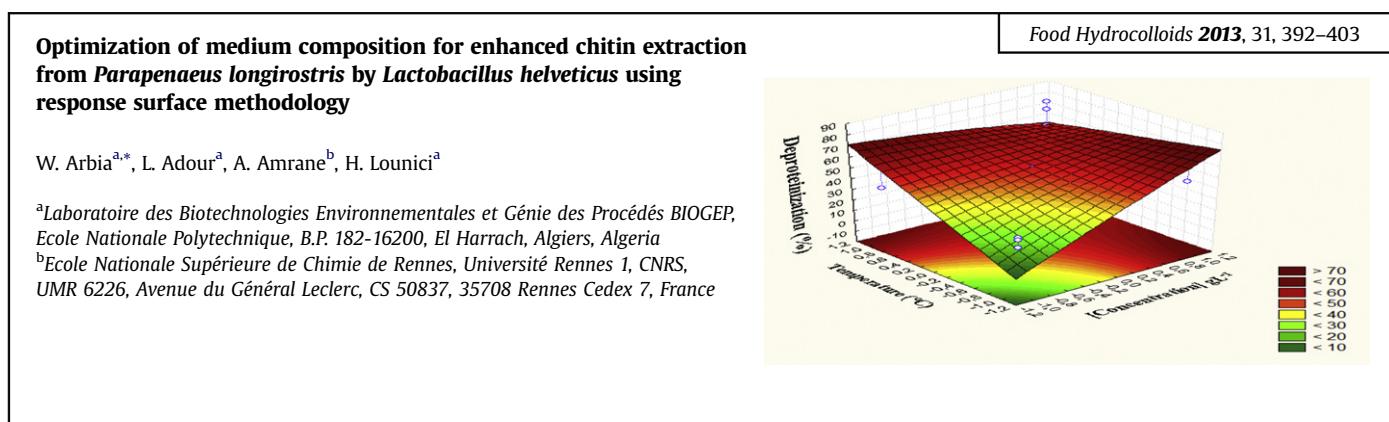
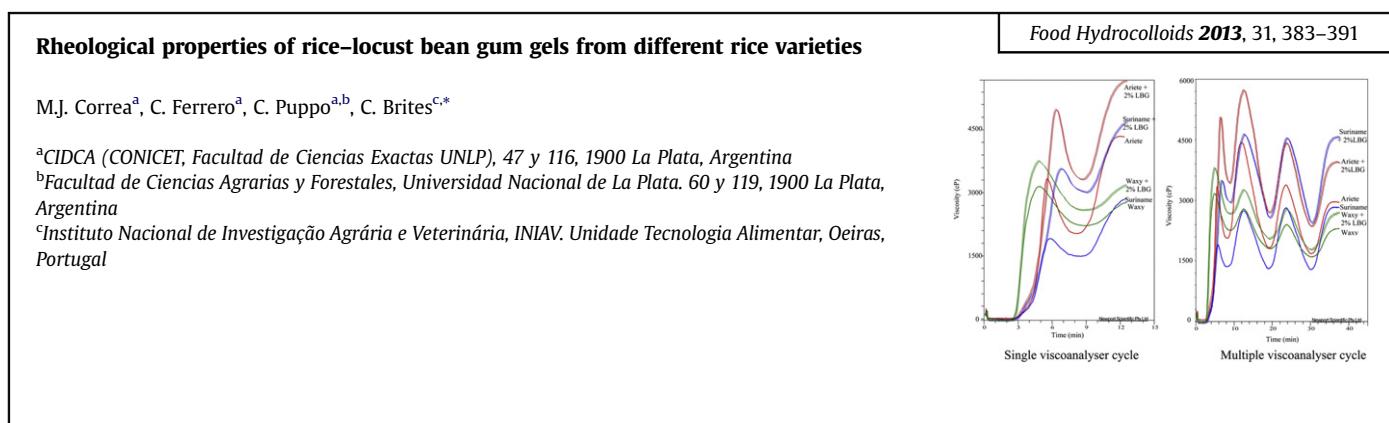
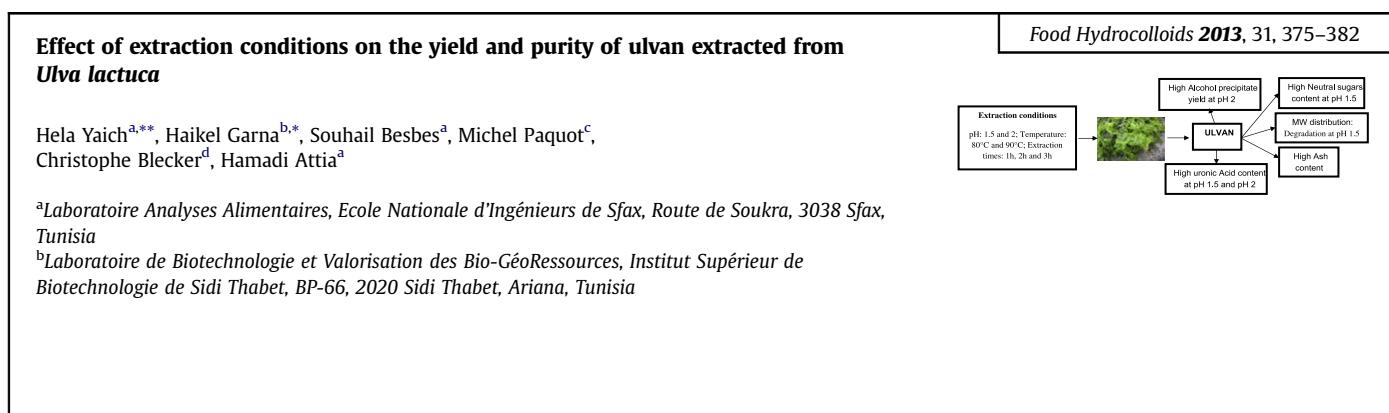
Morgan J. Tizzotti^{a,b}, Michael C. Sweedman^b, Christian Schäfer^c, Robert G. Gilbert^{a,b,*}

^aTongji School of Pharmacy, Huazhong University of Science and Technology, Wuhan 430030, China

^bCentre for Nutrition and Food Sciences, Queensland Alliance for Agricultural and Food Innovation, The University of Queensland, Brisbane, QLD 4072, Australia

^cDSM Nutritional Products Ltd., Nutrition R & D Center Forms and Application, P.O. Box 2676, 4002 Basel, Switzerland

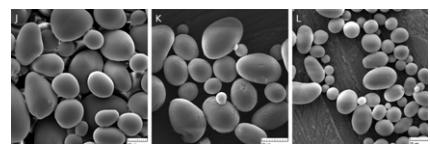




Ultrasound-treated starch: SEM and TEM imaging, and functional behaviour

Food Hydrocolloids 2013, 31, 413–419

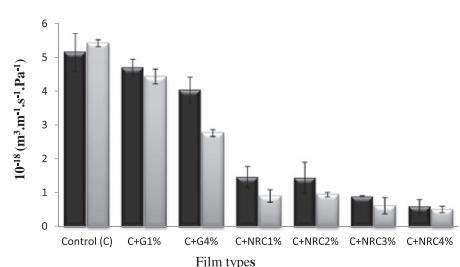
Monika Sujka*, Jerzy Jamroz

Department of Analysis and Evaluation of Food Quality, University of Life Sciences in Lublin,
Skromna 8, 20-704 Lublin, Poland**Fabrication and physicochemical characterization of HPMC films with commercial plant extract: Influence of light and film composition**

Food Hydrocolloids 2013, 31, 420–427

Muhammad-Javeed Akhtar, Muriel Jacquot*, Majid Jamshidian, Muhammad Imran, Elmira-Arab Tehrany, Stéphane Desobry

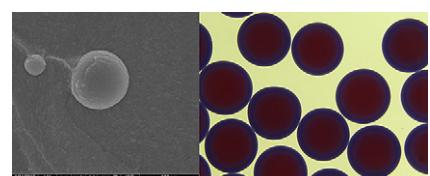
Université de Lorraine, ENSAIA-INPL, Laboratoire d'Ingénierie des Biomolécules (LIBio), 2 avenue de la Forêt de Haye, 54505 Vandœuvre-lès-Nancy Cedex, France



Oxygen permeability of edible HPMC films as a function of NRC concentration and fluorescent light exposure, (■) 0 day light exposure, (▨) 20 days light exposure.

Alginate submicron beads prepared through w/o emulsification and gelation with CaCl₂ nanoparticles

Food Hydrocolloids 2013, 31, 428–434

Jerome P. Paques^{a,b}, Erik van der Linden^b, Cees J.M. van Rijn^a, Leonard M.C. Sagis^{b,*}^aLaboratory of Organic Chemistry, Wageningen University, Dreijenplein 8, 6700 HB Wageningen, The Netherlands^bPhysics and Physical Chemistry of Foods, Wageningen University, Bomenweg 2, 6700 HD Wageningen, The Netherlands**FTIR spectroscopic characterization of soy proteins obtained through AOT reverse micelles**

Food Hydrocolloids 2013, 31, 435–437

Xiangyan Chen^a, Yi Ru^a, Fengliang Chen^a, Xianchang Wang^a, Xiaoyan Zhao^{a,*}, Qiang Ao^{b,**}^aInstitute of Agro-Food Science and Technology, Shandong Academy of Agricultural Sciences, No. 202, Gongyebei Road, Jinan 250100, China^bInstitute of Neurological Disorders, Tsinghua University, Beijing 100049, China