CONTENTS

105630

Antioxidant active packaging based on papaya edible films incorporated with *Moringa oleifera* and ascorbic acid for food preservation

Gisella M. Rodríguez, Juan C. Sibaja, Paula J.P. Espitia, Caio G. Otoni

105631

Rheological investigations of water-soluble polysaccharides from the Tunisian brown seaweed *Cystoseira compressa*

Faiez Hentati, Guillaume Pierre, Alina Violeta Ursu, Christophe Vial, Cedric Delattre, Slim Abdelkafi, Philippe Michaud

Investigation of flow behavior and dynamical viscoelasticity of water-soluble polysaccharides from *C. compressa* (Tunisian brown seaweed).

105632

Delonix regia galactomannan-based edible films: Effect of molecular weight and k-carrageenan on physicochemical properties

Wilbert Rodriguez-Canto, Miguel A. Cerqueira, Luis Chel-Guerrero, Lorenzo M. Pastrana, Manuel Aguilar-Vega

Characterization and physical properties of electrospun gelatin nanofibrous films by incorporation of nano-hydroxyapatite

Lingli Deng, Yang Li, Aiping Zhang, Hui Zhang

105639

Enzymatic determination of total starch and degree of starch gelatinization in various products

Keshun Liu, Qian Liu

105641

Improving resistance of crystallized starch by narrowing molecular weight distribution

Xiuting Hu, Zhaohua Huang, Zhilu Zeng, Chong Deng, Shunjing Luo, Chengmei Liu

Narrowing molecular weight distribution improved crystallization of starch, thus resulting in high resistance of crystallized starch.

105593

Effect of molecular weight and pH on the self-assembly microstructural and emulsification of amphiphilic sodium alginate colloid particles

Xiuqin Fang, Xinyu Zhao, Gaobo Yu, Lei Zhang, Yuhong Feng, Yang Zhou, Yuanyuan Liu, Jiacheng Li

Gelation of faba bean proteins - Effect of extraction method, pH and NaCl

Maud Langton, Sohail Ehsanzamir, Saeid Karkehabadi, Xinmei Feng, Monika Johansson, Daniel P. Johansson

105633

Revalorization of cellulosic wastes from *Posidonia oceanica* and *Arundo donax* as catalytic materials based on affinity immobilization of an engineered β -galactosidase

María José Fabra, Isabel Seba-Piera, David Talens-Perales, Amparo López-Rubio, Julio Polaina, Julia Marín-Navarro

105645

Interfacial/foaming properties and antioxidant activity of a silkworm (Bombyx mori) pupae protein concentrate

Manuel Felix, Carmen Bascon, Maria Cermeño, Richard J. FitzGerald, Julia de la Fuente, Cecilio Carrera-Sánchez

105623

Pectin emulsions for colon-targeted release of propionic acid

Hoang Du Le, Simon M. Loveday, Emilia Nowak, Zhigao Niu, Harjinder Singh

Effective suppression of potato tuber sprouting using polysaccharidebased emulsified films for prolonged release of citral

Hadar Arnon-Rips, Amit Sabag, Paula Tepper-Bamnolker, Dani Chalupovich, Yael Levi-Kalisman, Dani Eshel, Ron Porat, Elena Poverenov

105626

Enhancing the solubility and foam ability of rice glutelin by heat treatment at pH12: Insight into protein structure

Meng Zhao, Wenfei Xiong, Boxuan Chen, Jie Zhu, Lifeng Wang

105654

Enhancement of gel characteristics of NaOH-induced duck egg white gel by adding Ca(OH)₂ with/without heating

Minmin Ai, Quan Zhou, Nan Xiao, Shanguang Guo, Yuanyuan Cao, Hong Fan, Ziting Ling, Ledan Zhou, Shuchang Li, Jiaoli Long, Aimin Jiang

105651

Core-shell nanoparticles for co-encapsulation of coenzyme Q10 and piperine: Surface engineering of hydrogel shell around protein core

Shuai Chen, Yanhui Zhang, Jing Qing, Yahong Han, David Julian McClements, Yanxiang Gao

A comparative FTIR study for supplemented agavin as functional food

Oscar F. Vázquez-Vuelvas, Félix A. Chávez-Camacho, Jorge A. Meza-Velázquez, Emilio Mendez-Merino, Merab M. Ríos-Licea, Juan Carlos Contreras-Esquivel

105655

Fabrication and characterization of oil-in-water emulsions stabilized by macadamia protein isolate/chitosan hydrochloride composite polymers

Yejun Zhong, Xiaoyue Xiang, Xiaohuang Wang, Yu Zhang, Mingming Hu, Tingting Chen, Chengmei Liu

105646

Influence of thermal treatment on oil-water interfacial properties and emulsion stabilization prepared by sono-assembled soy peptide nanoparticles

Yuanhong Zhang, Feibai Zhou, Penghui Shen, Qiangzhong Zhao, Mouming Zhao

105648

Interfacial properties and interaction between beer wort protein fractions and iso-humulone

Yi Lu, Björn Bergenståhl, Lars Nilsson

Influence of O/W emulsion on gelatinization and retrogradation properties of rice starch

Huiyu Dun, Hongshan Liang, Fuchao Zhan, Xianling Wei, Yuanyuan Chen, Jiawei Wan, Yanyan Ren, Ling Hu, Bin Li

105659

Pickering emulsion hydrogel as a promising food delivery system: Synergistic effects of chitosan Pickering emulsifier and alginate matrix on hydrogel stability and emulsion delivery

Hui-Peng Lim, Kiang-Wei Ho, Charanjit Kaur Surjit Singh, Chien-Wei Ooi, Beng-Ti Tey, Eng-Seng Chan

105647

Selective protective coating for damaged pomegranate arils

Gal Sason, Amos Nussinovitch

105658

Amylolysis as a tool to control amylose chain length and to tailor gel formation during potato-based crisp making

S. Reyniers, N. Vluymans, N. De Brier, N. Ooms, S. Matthijs, K. Brijs, J.A. Delcour

105657 Regenerated cellulose films combined with glycerol and polyvinyl alcohol: Effect of moisture content on the physical properties

Patricia Cazón, Gonzalo Velázquez, Manuel Vázquez

105656

The protection of bovine serum albumin against thermal denaturation and gelation by sodium dodecyl sulfate studied by rheology and molecular dynamics simulation

Osita Sunday Nnyigide, Kyu Hyun

105650

Energetic neutral N_2 atoms treatment on the kithul (Caryota urens) starch biodegradable film: Physico-chemical characterization

Cherakkathodi Sudheesh, Kappat Valiyapeediyekkal Sunooj, Abhilash Sasidharan, Sarasan Sabu, Aaliya Basheer, Muhammed Navaf, Chikkonda Raghavender, Suraj Kumar Sinha, Johnsy George

105649

Extrinsic factors influencing nano-/micro-particle formation in pure soy glycinin solution via heating

Huanhuan Zhao, Xinyue Zhou, Enbo Xu, Mingming Guo, Donghong Liu

105643 Barley β -glucan effects on emulsification and in vitro lipolysis of canola oil are modulated by molecular size, mixing method, and emulsifier type Honglei Zhai, Purnima Gunness, Michael J. Gidley

105636

Structural characterisation and immunomodulatory activity of exopolysaccharides from liquid fermentation of *Monascus purpureus* (Hong Qu)

Nifei Wang, Gege Jia, Changlu Wang, Mianhua Chen, Fengjiao Xie, N.V. Nepovinnykh, H. Douglas Goff, Qingbin Guo

105660

Impact of microfluidization on the microstructure and functional properties of pea hull fibre

R. Morales-Medina, D. Dong, S. Schalow, S. Drusch

105672

Edible pickering high internal phase emulsions stabilized by soy glycinin: Improvement of emulsification performance and pickering stabilization by glycation with soy polysaccharide

Ze-Zhou Hao, Xiu-Qing Peng, Chuan-He Tang

05664	
lobular proteins as so nd strategies	oft particles for stabilizing emulsions: Concepts
huan-He Tang	
	•
	of the underlying causes of the strengthening
effect of alkali on glute and glutenin	en and noodle quality: Studies on gluten, gliadin,
lhuanwu Han, Meng M	1a, Man Li, Qingjie Sun
05688	
hysicochemical, antic	oxidant and antibacterial properties of fish
gelatin-based edible fi application	ilms enriched with orange peel pectin: Wrapping
_	n range and the Management
Mourad Jridi, Ola Abde Yosra Menchari	lhedi, Ali Salem, Hela Kechaou, Moncef Nasri,
105674	
	nuniformity in the viscosity-change process of ric

starch in hot excess water

Hisashi Yamamoto, Chiaki Amano, Nao Fuchiue, Kanami Ohta

105684
The radiation assisted-Maillard reaction comprehensively improves the freeze-thaw stability of soy protein-stabilized oil-in-water emulsions
Yuying Wang, Anqi Zhang, Xibo Wang, Ning Xu, Lianzhou Jiang
105619
Fabrication and characterization of cold-gelation whey protein-chitosa
complex hydrogels for the controlled release of curcumin
Zhuzhu Liu, Chengzhen Liu, Xun Sun, Shuaizhong Zhang, Yongkai Yuan, Dongfeng Wang, Ying Xu
105662
Influence of particle modulus (softness) and matrix rheology on the sensory experience of 'grittiness' and 'smoothness'
Heather M. Shewan, Jason R. Stokes, Heather E. Smyth

Modification of resistant starch nanoparticles using high-pressure homogenization treatment

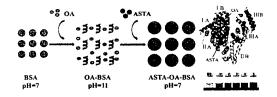
Eftychios Apostolidis, Ioanna Mandala

Schematic Diagram of High Pressure Homogenization.

105677

Re-assembled oleic acid-protein complexes as nano-vehicles for astaxanthin: Multispectral analysis and molecular docking

Yixiang Liu, Ling Huang, Donghui Li, Yanbo Wang, Zhaohua Chen, Chao Zou, Wenqiang Liu, Yu Ma, Min-Jie Cao, Guang-Ming Liu



105675

A peppermint oil emulsion stabilized by resveratrol-zein-pectin complex particles: Enhancing the chemical stability and antimicrobial activity in combination with the synergistic effect

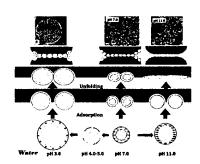
Hao Cheng, Muhammad Aslam Khan, Zhenfeng Xie, Shengnan Tao, Yunxing Li, Li Liang



105694

Whether ovalbumin performs as a particulate or polymeric emulsifier is largely determined by pH

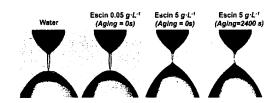
Yan-Teng Xu, Yu-Han Wang, Fei-Ping Chen, Chuan-He Tang



105616

Interfacial viscoelasticity and aging effect on droplet formation and breakup

Gerard Giménez-Ribes, Leonard M.C. Sagis, Mehdi Habibi



105687	
Potential beneficial effect of hydrothermal treatment of starchovarious sources on in vitro digestion	es from
Raquel Selma-Gracia, José Moisés Laparra, Claudia Monika Haros	
105690	
	•
An insight into starch slowly digestible features enhanced by m treatment	icrowave
Nannan Li, Lili Wang, Siming Zhao, Dongling Qiao, Caihua Jia, Mer Qinlu Lin, Binjia Zhang	ng Niu,
105693	
Retrogradation properties and <i>in vitro</i> digestibility of wild stard Castanopsis sclerophylla	:h from
Yueping Ding, Jie Wan, Chengmei Liu, Xiaofei Shi, Xue Xia,	
Sangeeta Prakash, Xiao Zhang	

Observations on the impact of amylopectin and amylose structure on

105663

the swelling of starch granules

Varatharajan Vamadevan, Eric Bertoft

Water sorption thermodynamic behavior of whey protein isolate/ polyvinyl alcohol blends for food packaging

Bruna Rage Baldone Lara, Marali Vilela Dias, Mario Guimarães Junior, Paulo Sérgio de,rade, Bruna de Souza Nascimento, Laura Fonseca Ferreira, Maria Irene Yoshida

105708

Structural modification in album (*Chenopodium album*) protein isolates due to controlled thermal modification and its relationship with protein digestibility and functionality

Nisar A. Mir, Charanjit S. Riar, Sukhcharn Singh

105709

The investigation of protein flexibility of various soybean cultivars in relation to physicochemical and conformational properties

Ying Zhu, Shaoyu Fu, Changling Wu, Baokun Qi, Fei Teng, Zhongjiang Wang, Yang Li, Lianzhou Jiang

105707

Effects of cultivar and growth region on the structural, emulsifying and rheological characteristic of mango peel pectin

Zhuodan Deng, Yonggui Pan, Wenxue Chen, Weijun Chen, Yonghuan Yun, Qiuping Zhong, Weimin Zhang, Haiming Chen

Thermal, mechanical and microstructural characterization and antioxidant potential of *Rhinobatos cemiculus* gelatin films supplemented by titanium dioxide doped silver nanoparticles Soumaya Boughriba, Nabil Souissi, Mourad Jridi, Suming Li, Moncef Nasri

105703

Fabrication and characterization of resistant starch stabilized Pickering emulsions

Xuanxuan Lu, Hongsheng Liu, Qingrong Huang Figure Pickering emulsions stabilized by lauric acid-starch complex.

105706

Rheological and physicochemical properties of polysaccharides extracted from stems of *Dendrobium officinale*

Bo Wang, Weimin Zhang, Xinpeng Bai, Congfa Li, Dong Xiang

105705

Intervention on activity and structure of cathepsin L during surimi gel degradation under microwave irradiation

Hongwei Cao, Huaping Zhu, Qian Wang, Daming Fan, Jianlian Huang, Jianxin Zhao, Xidong Jiao, Bowen Yan, Wenguo Zhou, Hao Zhang

Nano-/microstructure of extruded Spirulina/starch foams in relation to their textural properties

Marta Martínez-Sanz, Emanuel Larsson, Kalep B. Filli, Camille Loupiac, Ali Assifaoui, Amparo López-Rubio, Patricia Lopez-Sanchez

105696

Sustainable starch-based barrier coatings for packaging applications

Kai Chi, Hui Wang, Jeffrey M. Catchmark Sustainable starch PEC coatings.

105653

A novel low-alkali konjac gel induced by ethanol to modulate sodium release

Yun Zhou, Liangliang Wu, Yuan Tian, Rui Li, Chongyang Zhu, Guohua Zhao, Yongqiang Cheng

105711

Supernatant starch fraction of corn starch and its emulsifying ability: Effect of the amylose content

Baozhong Guo, Xiuting Hu, Fenghong Deng, Jianyong Wu, Shunjing Luo, Ruiyun Chen, Chengmei Liu

Insight into gluten structure in a mild chaotropic solvent by asymmetrical flow field-flow fractionation (AsFIFFF) and evidence of non-covalent assemblies between glutenin and ω -gliadin

Marie-Hélène Morel, Justine Pincemaille, Edouard Chauveau, Ameur Louhichi, Frédéric Violleau, Paul Menut, Laurence Ramos, Amélie Banc

105718

A deep insight into mechanism for inclusion of 2R,3R-dihydromyricetin with cyclodextrins and the effect of complexation on antioxidant and lipid-lowering activities

Yanping Wu, Yue Xiao, Yuxi Yue, Kai Zhong, Yinglan Zhao, Hong Gao

105715

Zein/soluble soybean polysaccharide composite nanoparticles for encapsulation and oral delivery of lutein

Hao Li, Yongkai Yuan, Junxiang Zhu, Teng Wang, Dongfeng Wang, Ying Xu

105723

Casein core-polysaccharide shell nanocomplexes stable at pH 4.5 enabled by chelating and complexation properties of dextran sulfate

Nan Li, Qixin Zhong

105713 The future trends of food hydrocolloids Wei Lu, Katsuyoshi Nishinari, Shingo Matsukawa, Yapeng Fang

105691

Rheological properties of stabilizers at low temperatures in concentrated sucrose solutions

Véronique Masselot, Hayat Benkhelifa, Gérard Cuvelier, Véronique Bosc