

CONTENTS

1–5

Microstructure, pasting and textural properties of wheat starch-corn starch citrate composites

Sara Hedayati and Mehrdad Niakousari

6–14

Chemical components distribution and morphology of microcapsules of paprika oleoresin by microscopy and spectroscopy

Josefina Porras-Saavedra, Liliana Alamilla-Beltrán*, Luis Lartundo-Rojas, Ma. de Jesús Perea-Flores, Jorge Yáñez-Fernández, E. Palacios-González and Gustavo F. Gutiérrez-López

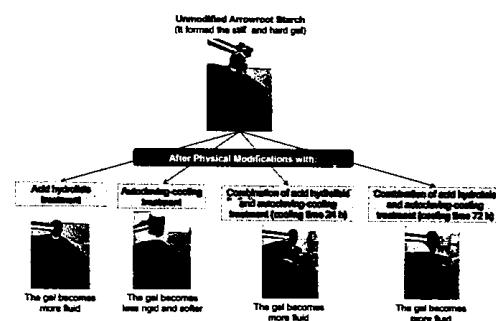
15–22

Synergetic interfacial adsorption of protein and low-molecular-weight emulsifiers in aerated emulsions

Jiang Jiang, Yan Jin, Xinyu Liang, Michael Piatko, Shawn Campbell, Seong Koon Lo and Yuanfa Liu*

Effect of physical modification on granule morphology, pasting behavior, and functional properties of arrowroot (*Marantha arundinacea L.*) starch

Rizki Maryam Astuti*, Widaningrum, Nurul Asiah, Ade Setyowati and Riska Fitriawati



Development of cress seed mucilage/PVA nanofibers as a novel carrier for vitamin A delivery

Arezoo Fahami and Milad Fathi

Fabricating soy protein hydrolysate/xanthan gum as fat replacer in ice cream by combined enzymatic and heat-shearing treatment

Rui Liu, Liguo Wang, Yan Liu, Tao Wu and Min Zhang*

6

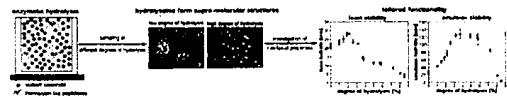
Carvacrol loaded electrospun fibrous films from zein and poly(lactic acid) for active food packaging

Aylin Altan, Zeynep Aytac and Tamer Uyar

60–70

Modification of the interfacial properties of sodium caseinate using a commercial peptidase preparation from *Geobacillus stearothermophilus*

Jacob Ewert, Claudia Glück, Benjamin Zeeb, Jochen Weiss, Timo Stressler*
and Lutz Fischer



71–76

High hydrostatic pressure processing for the preparation of buckwheat and tapioca starch films

Sujin Kim, So-Young Yang, Ho Hyun Chun and Kyung Bin Song*

77–86

The gelatinization and retrogradation properties of wheat starch with the addition of stearic acid and sodium alginate

Zhen Yu, Yu-Sheng Wang, Hai-Hua Chen, Qian-Qian Li and Qi Wang

87–95

Mechanical properties of bacterial cellulose synthesised by diverse strains of the genus *Komagataeibacter*

Si-Qian Chen, Patricia Lopez-Sanchez, Dongjie Wang, Deirdre Mikkelsen
and Michael J. Gidley*

96–103

Antiviral and antioxidant properties of active alginate edible films containing phenolic extracts

María José Fabra*, Irene Falcó, Walter Randazzo, Gloria Sánchez and Amparo López-Rubio

104–112

Enhanced antioxidant activity and *in vitro* release of propolis by acid-induced aggregation using heat-denatured zein and carboxymethyl chitosan

Hao Zhang, Yuying Fu*, Fuge Niu, Zeya Li, Chujie Ba, Bing Jin, Guowen Chen and Xiaomeng Li

113–119

Pectic polysaccharides as an acrylamide mitigation strategy – Competition between reducing sugars and sugar acids

Cláudia P. Passos, Sónia S. Ferreira, António Serôdio, Eva Basil, Lucie Marková, Kristína Kukurová, Zuzana Ciesarová and Manuel A. Coimbra

120–128

Improved emulsion stability and modified nutrient release by structuring O/W emulsions using konjac glucomannan

Wei Lu, Baodong Zheng and Song Miao*

129–138

Water absorption as a prediction tool for the application of hydrocolloids in potato starch-based bread

S.W. Horstmann, C. Axel and E.K. Arendt

139–148

Intact cellular structure in cereal endosperm limits starch digestion *in vitro*

Rewati R. Bhattarai, Sushil Dhital, Andrew Mense, Michael J. Gidley and Yong-Cheng Shi*

149–158

Structure, physicochemical stability and *in vitro* simulated gastrointestinal digestion properties of β -carotene loaded zein-propylene glycol alginate composite nanoparticles fabricated by emulsification-evaporation method

Yang Wei, Cuixia Sun, Lei Dai, Xinyu Zhan and Yanxiang Gao*

159–168

Fabrication and characterization of multilayered kafirin/gelatin film with one-way water barrier property

Wenbo Wang, Jie Xiao*, Xia Chen, Minna Luo, Hongsheng Liu and Ping Shao

169–179

Characterization of carp (*Cyprinus carpio*) skin gelatin extracted using different pretreatments method

Joanna Tkaczewska, Małgorzata Morawska, Piotr Kulawik and Marzena Zająć

180–190

Synergistic and antagonistic effects of plant and dairy protein blends on the physicochemical stability of lycopene-loaded emulsions

Kacie K.H.Y. Ho, Karin Schroën, M. Fernanda San Martín-González and Claire C. Berton-Carabin*

191–199

Physicochemical properties, structure and *in vitro* digestibility on complex of starch with lotus (*Nelumbo nucifera* Gaertn.) leaf flavonoids

Mengting Wang, Qing Shen, Lyulin Hu, Yaqin Hu, Xingqian Ye, Donghong Liu and Jianchu Chen*

200–208

**Bioactive potentials of sulfated polysaccharides isolated from brown seaweed *Sargassum* spp in related to human health applications:
A review**

K.K. Asanka Sanjeewa, Nalae Kang, Ginnae Ahn, Younghyun Jee, Young-Tae Kim** and You-Jin Jeon*

209–219

**Influence of essential oils and pectin on nanoemulsion formulation:
A ternary phase experimental approach**

M. Artiga-Artigas, M.I. Guerra-Rosas, J. Morales-Castro, L. Salvia-Trujillo
and O. Martín-Belloso*

220–228

**Characterization of a yogurt-quality improving exopolysaccharide from
Streptococcus thermophilus AR333**

Hui Zhang, Wei Ren, Qingbing Guo, Zhiqiang Xiong, Guangqiang Wang,
Yongjun Xia, Phoency Lai, Boxing Yin and Lianzhong Ai*

229–241

**Rheological and structural properties of protein isolates extracted from
dephenolized sunflower meal: Effect of high intensity ultrasound**

Mudasir Ahmad Malik and Charanjiv Singh Saini

242–252

**Complexation of *trans*- and *cis*-resveratrol with bovine serum albumin,
 β -lactoglobulin or α -lactalbumin**

Hao Cheng, Zheng Fang, Wusigale, Amr M. Bakry, Yantao Chen** and
Li Liang*

253–262

Oat bran extract (*Avena sativa* L.) from food by-product streams as new natural emulsifier

Theo Ralla, Hanna Salminen, Matthias Edelmann, Corinna Dawid,
Thomas Hofmann and Jochen Weiss*

263–272

Acid-induced gelation of whey protein aggregates: Kinetics, gel structure and rheological properties

Anna Kharlamova, Christophe Chassenieux and Taco Nicolai*

273–283

Determination of the ‘apparent pK_a’ of selected food hydrocolloids using ortho-toluidine blue

Leo F.W. Vleugels, Stella Ricois, Ilja K. Voets and Remco Tuinier*

284–285

Corrigendum to “Rheological properties of agar and carrageenan from Ghanaian red seaweeds” [Food Hydrocolloids 63 (2017) 50–58]

Nanna Rhein-Knudsen, Marcel Tutor Ale, Fatemeh Ajalloueian, Liyun Yu
and Anne S. Meyer*

286–299

Functionality of whey proteins covalently modified by allyl isothiocyanate. Part 2: Influence of the protein modification on the surface activity in an O/W system

Julia K. Keppler*, Anja Steffen-Heins, Claire C. Berton-Carabin,
Marie-Hélène Ropers and Karin Schwarz

300–311

Temperature dependence of acid and calcium-induced low-methoxyl pectin gel extracted from *Cyclea barbata* Miers

Oni Yuliarti* and Radyiatul Mardyiah Binte Othman

312–327

Process-induced water-soluble biopolymers from broccoli and tomato purées: Their molecular structure in relation to their emulsion stabilizing capacity

Jihan Santanina J. Santiago, Laura Salvia-Trujillo, Alex Palomo, Anuj Niroula,
Fei Xu, Ann M. Van Loey and Marc E. Hendrickx*

328–340

Novel findings for quercetin encapsulation and preservation with cyclodextrins, liposomes, and drug-in-cyclodextrin-in-liposomes

Joyce Azzi, Alia Jraij, Lizette Auezova, Sophie Fourmentin and
Hélène Greige-Gerges*

341–350

Verbascum nigrum L. (mullein) extract as a natural emulsifier

Maciej Jarzębski*, Wojciech Smułek, Mikołaj Kościński,
Tomasz Białopiotrowicz and Ewa Kaczorek

351–363

**Effects of agar films incorporated with fish protein hydrolysate or clove
essential oil on flounder (*Paralichthys orbignyanus*) fillets shelf-life**

Meritaine da Rocha*, Ailén Alemán, Viviane Patrícia Romani,
M. Elvira López-Caballero, M. Carmen Gómez-Guillén, Pilar Montero
and Carlos Prentice

364–370

**Liposomal dispersion and powder systems for delivery of cocoa hull
waste phenolics via Ayran (drinking yoghurt): Comparative studies on
in-vitro bioaccessibility and antioxidant capacity**

Gokce Altin, Mine Gültekin-Özgüven and Beraat Ozcelik

371–379

**Copigment-polyelectrolyte complexes (PECs) composite systems for
anthocyanin stabilization**

Chen Tan, Giovana B. Celli and Alireza Abbaspourrad

380–388

Efficient production of fungal chitosan utilizing an advanced freeze-thawing method; quality and activity studies

Zhaojun Ban, Batia Horev, Roi Rutenberg, Ofer Danay, Cristina Bilbao,
Tara McHugh, Victor Rodov and Elena Poverenov*

389–397

A novel extremophilic xylanase produced on wheat bran from *Aureobasidium pullulans* NRRL Y-2311-1: Effects on dough rheology and bread quality

Sirma Yegin*, Burak Altinel and Kubra Tuluk

398–408

Fractionation and characterisation of dietary fibre from blackcurrant pomace

K. Alba, W. MacNaughtan, A.P. Laws, T.J. Foster, G.M. Campbell and
V. Kontogiorgos*

409–418

Stabilisation of oil-in-water emulsions with non-chemical modified gelatinised starch

Miroslaw M. Kasprzak, William Macnaughtan, Stephen Harding,
Peter Wilde and Bettina Wolf*

419–428

Thermoresponsive, water-dispersible microcapsules with a lipid-polysaccharide shell to protect heat-sensitive colorants

Raheleh Ravanfar, Talita A. Comunian and Alireza Abbaspourrad*

429–441

Radical cross-linked whey protein aggregates as building blocks of non-heated cold-set gels

Farhad Alavi, Shima Momen, Zahra Emam-Djomeh*, Maryam Salami and Ali Akbar Moosavi-Movahedi

442–448

Physicochemical properties of alginate-based films: Effect of ionic crosslinking and mannuronic and guluronic acid ratio

Maria J. Costa, Arlete M. Marques, Lorenzo M. Pastrana, José A. Teixeira, Sanna M. Sillankorva and Miguel A. Cerqueira

449–455

Structural and physicochemical properties of heat moisture treated and citric acid modified acha and iburu starches

Buliyaminu Adegbemiro Alimi and Tilahun Seyoum Workneh

456–466

The role of choline chloride-based deep eutectic solvent and curcumin on chitosan films properties

Cláudio M.R. Almeida, Júlia M.C.S. Magalhães, Hiléia K.S. Souza* and Maria P. Gonçalves**

467–473

Sweet potato starch with low pasting temperature to improve the gelling quality of surimi gels after freezing

Ru Jia, Toyohiko Katano, Yasushi Yoshimoto, Yuanpei Gao, Yuki Watanabe, Naho Nakazawa, Kazufumi Osako and Emiko Okazaki*

474–480

Salecan stabilizes the microstructure and improves the rheological performance of yogurt

Renjie Fu, Jing Li*, Tao Zhang, Tingrui Zhu, Rui Cheng, Shiming Wang and Jianfa Zhang

481–489

Hempseed meal protein isolates prepared by different isolation techniques. Part II. gelation properties at different ionic strengths

Tamara Dapčević-Hadnađev, Miroslav Hadnađev, Athina Lazaridou, Thomas Moschakis and Costas G. Biliaderis