

CONTENTS

108607

Fabrication, characterization, and emulsifying properties of hexadecyltrimethylammonium bromide (CTAB)complexed alginate microgel

Wenxin Jiang, Wei Xiang, Longquan Xu, Dan Yuan, Zhiming Gao, Bing Hu, Yanlei Li and Yuehan Wu

108605

High internal phase emulsions and edible films with high methoxyl pectin and pea protein isolate or sodium caseinate

Marianthi Zioga, Georgia Papantonopoulou and Vasiliki Evageliou

108595

Evaluation of cattle skin collagen for producing co-extrusion sausage casing

Patricia Suurs, Henry van den Brand, Robin ten Have, Willeke F. Daamen and Shai Barbut

108601

Effects of alkali treatment on structural and functional properties of chickpea protein isolate and its interaction with gallic acid: To improve the physicochemical stability of water-in-oil emulsions

Mi Zhang, Liuping Fan, Yuanfa Liu and Jinwei Li

108587

The effect of sodium alginate on the nanomechanical properties and interaction between oil body droplets studied using atomic force microscopy

Nan Yang, Yuemei Zhang, Chunxia Su, Chengxin Zhu, Junji Jia and Katsuyoshi Nishinari

108590

Development of active packaging films based on collagen/gallic acid-grafted chitosan incorporating with ϵ -polylysine for pork preservation

Tingting Zheng, Pingping Tang, Changkai Yang, Ruimin Ran and Guoying Li

108571

Physico-chemical and structural characterization of cellulose nanocrystals obtained by two drying methods: Freeze-drying and spray-drying

J. Alarcón-Moyano, D. Acuña, S. Matiacevich, L. Caballero, F. Melo, F. Quero and P. Díaz-Calderón

108585

Kappa-carrageenan improves the gelation and structures of soy protein isolate through the formation of hydrogen bonding and electrostatic interactions

Zhou Lu, Pin-Rou Lee and Hongshun Yang

108603

The importance of shear and extensional rheology and tribology as the design tools for developing food thickeners for dysphagia management

Chaiwut Gamonpilas, Akapong Kongjaroen and Pawadee Methacanon

108608

Rheological and microstructural characterisation of lotus seed milks and their glucono- δ -lactone induced acid-set milk gels: 1. Effect of protein content

Zhao Li, Tingting Li, Meng Zhao, Bo Cui and Yacine Hemar

Complex elastic modulus (G) after 5 h acidification of lotus seed milks (LSMs) at different concentrations. Inset: gelled LSMs in comparison to 10wt% reconstituted skim milk powder (SMP). Background: photograph of dried lotus seeds used in this study.

108613

Regulation, production and clinical application of Foods for Special Medical Purposes (FSMPs) in China and relevant application of food hydrocolloids in dysphagia therapy

Long Huang, Junyi Lu, Linyan Shi and Hongbin Zhang

108599

Fabrication of novel hybrid gel based on beeswax oleogel: Application in the compound chocolate formulation

Zohreh Baratian Ghorghi, Samira Yeganehzad, Mohammad Ali Hesarinejad, Ali Faezian, Vasilissa Kutsenkova, Zhiming Gao, Katsuyoshi Nishinari and Nataliia Nepovinnykh

108611

Tuning the pea protein gel network to mimic the heterogenous microstructure of animal protein

Yong Wang, Woojoeng Kim, Rishi Ravindra Naik, Patrick T. Spicer and Cordelia Selomulya

108564

3D printing of salmon fillet mimic: Imparting printability via high-pressure homogenization and post-printing texturization via transglutaminase

Jingxin Uma Tay, Chaoying Zhou, Hui Wen Lee, Yuyun Lu and Dejian Huang

108591

Insight in changes in starch and proteins molecular structure of non-wheat cereal flours influenced by roasting and extrusion treatments

Aleksandra Torbica, Ilinka Pećinar, Steva Lević, Miona Belović, Mirjana Jovičić, Zora Dajić Stevanović and Viktor Nedović

108598

Encapsulation of salmon oil using complex coacervation: Probing the effect of gum acacia on interfacial tension, coacervation and oxidative stability

Wilhelm R. Glomm, Peter P. Molesworth, Betül Yesiltas, Charlotte Jacobsen and Heidi Johnsen

108614

Effects of pH during dry-heat preparation on the physicochemical and emulsifying properties of rice starch and whey protein isolate mixtures

Peilei Zhu, Xianfeng Du, Caiyu Liu, Guiyun Zhao and Mingchun Wang

108612

Recent advances in chitosan based bioactive materials for food preservation

Xiaoli Liu, Wenying Liao and Wenshui Xia

108609

Novel high internal phase oleogels-in-water pickering emulsions stabilized solely by whey protein isolate for 3D printing and fucoxanthin delivery

Wenbo Shang, Yuanda Sun, Jia Song, Pengjing Zhang, Yitong Hou, Haitao Wang and Mingqian Tan

108583

Ca²⁺/pH-triggered gelation of Pickering emulsion in vitro digestion: Visualization and sustained-release performance

Haifang Liu, Riting Huang, Xinyu Zhao, Shujuan Yang, Furui He, Wenqi Qin, Junhao Huang, Gaobo Yu, Yuhong Feng, Jiacheng Li and Chenghong Liao

108616

Structural manipulation of the gelatin/genipin network to inform the molecular transport of caffeine

Courtney Morrish, Shahla Teimouri and Stefan Kasapis

Apparent diffusion coefficient of caffeine *versus* the average molecular weight between two adjacent crosslinks for gelatin crosslinked with genipin using a theoretical mathematical expression proposed by Teimouri and Kasapis to yield the coupling parameter and the critical molecular weight for diffusion to occur.

108589

Combined effects of NaOH, NaCl, and heat on the characteristics of ovalbumin gel and the exploration of the mechanism of transparent gel formation

Hui Xue, Tianfeng Han, Guowen Zhang, Xiaobo Hu, Ruiling Li, Huilan Liu, Rui Li, Yonggang Tu and Yan Zhao

108626

Enhancement of surimi gel properties through the synergetic effect of fucoidan and oligochitosan

Yadong Zhao, Xinyue Piao, Bin Zheng, Pingping Gao, Wenhua Miao, Zhengshun Wen, Xiaojun Zhang, Guangming Mei, Rusen Zhou and Shanggui Deng

108617

Different dietary fibers unequally remodel gut microbiota and charge up anti-obesity effects

Jia-Jia Wen, Ming-Zhi Li, Jie-Lun Hu, Jiang Wang, Zhi-Qiang Wang, Chun-Hua Chen, Jing-Rui Yang, Xiao-Jun Huang, Ming-Yong Xie and Shao-Ping Nie

108615

Arabinoxylan of varied structural features distinctively affects the functional and *in vitro* digestibility of wheat starch

Ji Kang, Zhi-Yan Huang-Fu, Xiaona Tian, Liting Cheng, Jixiang Zhang, Yan Liu, Yanfang Liu, Shujun Wang, Xinzhong Hu, Liang Zou and Qingbin Guo

108575

Effects of pectin-calcium matrices on controlling *in vitro* digestion of normal maize starch

Supaluck Kraithong, Shahid Ahmed Junejo, Yi Jiang, Bin Zhang and Qiang Huang

108604

Encapsulation of caffeine in sandwich structured *Alyssum homolocarpum* seed gum/PVA/gelatin nanofibers using electrospinning technique

Fatemeh Kazemianrad, Arash Koocheki and Behrouz Ghorani

108627

Preparation, characterization, and foaming properties of soy protein nanoparticles by the cross-linking reaction induced by microbial transglutaminase

Sihong Wu, Jiujiu Xia, Zhengxun Wei, Weijun Sun, Ximing Zhang and Ning Xiang

108630

Crystal structure changes of native and retrograded starches modified by high hydrostatic pressure: Physical dual modification

Jaime E. Dominguez-Ayala, Maria T. Ayala-Ayala, Gonzalo Velazquez, Diego G. Espinosa-Arbelaez and Guadalupe Mendez-Montealvo

108597

Ultrasound coupled with weak alkali cycling-induced exchange of free sulfhydryl-disulfide bond for remodeling interfacial flexibility of flaxseed protein isolates

Jing Yang, Yuqing Duan, Haihui Zhang, Fenghong Huang, Chuyun Wan, Chen Cheng, Lei Wang, Dengfeng Peng and Qianchun Deng

108628

Stability of native/thermally denatured myofibrillar protein particles: Improvement with decreasing pH

Mengman Wang, Yan Li, Chaowei Ma, Zhiguo Zhang, Liping Guo, Ming Huang and Jingxin Sun

108639

Effects of pH and aging on the texture and physicochemical properties of extruded pea protein isolate

Belal J. Muhialdin and Job Ubbink

108600

3D printing surimi enhanced by surface crosslinking based on dry-spraying transglutaminase, and its application in dysphagia diets

Juncheng Zhu, Yang Cheng, Zhiying Ouyang, Yuxin Yang, Liang Ma, Hongxia Wang and Yuhao Zhang

108620

Effect of interaction between ovotransferrin fibrils and pectin on properties of oleogel-based Pickering emulsions

Yue Dong, Zihao Wei and Changhu Xue

108640

Protein gel with designed network and texture regulated via building blocks to study dysphagia diet classifications

Guangxue Chen, Jinhua Hu, Yongxue Liang, Xueyao Huang, Geok Leng Seah, Jin Li, Dingrong Liu and Cheng Tan

108606

**Understanding the microstructure of a functional meat analogue:
Demystifying interactions between fungal hyphae and egg white protein**

Mary C. Okeudo-Cogan, Brent S. Murray, Rammile Ettelaie,
Simon D. Connell, Stewart J. Radford, Stuart Micklethwaite and
Anwasha Sarkar

108621

**Interfacial enzyme kinetics reveals degradation mechanisms behind
resistant starch**

Yu Tian, Yu Wang, Xingxun Liu, Klaus Herburger, Peter Westh,
Marie S. Møller, Birte Svensson, Yuyue Zhong and Andreas Blennow

108635

**Incorporating acetylated starch regulates the structure and sol-gel
performance of wheat starch-based binary system**

Shengsong Ji, Dongling Qiao, Siming Zhao, Yan Xu, Caihua Jia, Meng Niu
and Binjia Zhang

108622

**Hydrophobic interaction at the O/W interface: Impacts on the interfacial
stability, encapsulation and bioaccessibility of polyphenols**

Yangyang Hu, Yangying Sun, Qiang Xia, Lihui Du, Jun He, Jue Xu,
Changyu Zhou and Daodong Pan

108649

New insights into the pH dependence of anthocyanin-protein interactions by a case study of cyanidin-3-O-glucoside and bovine serum albumin

Peiqing Yang, Wenxin Wang, Zhenzhen Xu, Lei Rao, Liang Zhao, Yongtao Wang and Xiaojun Liao

108636

Physicochemical properties and microstructure of bigels formed with gelatin and κ -carrageenan hydrogels and monoglycerides in olive oil oleogels

K. Zampouni, C.K. Mouzakitis, A. Lazaridou, T. Moschakis and E. Katsanidis

108641

Milk protein-based cryogel monoliths as novel encapsulants of probiotic bacteria. Part I: Microstructural, physicochemical, and mechanical characterisation

Thierry Hellebois, Romain Canuel, Frédéric Addiego, Jean-Nicolas Audinot, Claire Gaiani, Alexander S. Shaplov and Christos Soukoulis

108634

Recent advances in polysaccharides from the genus *Polygonatum*: Isolation, structures, bioactivities, and application

Yunfei Hu, Yuchen Tang, Zhiyong Zhang, Xuting Guo, Ziyi Wu, Zheng Li, Hao Yu and Wenlong Li

108633

Effect of extrusion with hydrocolloid-starch molecular interactions on retrogradation and *in vitro* digestibility of chestnut starch and processing properties of chestnut flour

Junchao Zhu, Bo Zheng, Chenlu Rao and Ling Chen

108632

Development and characterization of a casein-hyaluronic acid emulsion gel with high water-holding capacity and excellent rheological properties for 3D printing

Ningzhe Wang, Jie Hu, Kaida Zhang, Ye Zhang, Yunqing Jiang, Xibo Wang and Qingfeng Ban

108631

Interactions of cellulose cryogels and aerogels with water and oil: Structure-function relationships

Francesco Ciuffarin, Marion Négrier, Stella Plazzotta, Michele Libralato, Sonia Calligaris, Tatiana Budtova and Lara Manzocco

108618

Large-scale isolation and purification of yolk immunoglobulin with different purity levels via a combination technique based on high-speed-shear crossflow membrane separation

Minquan Xia, Cong Liu, Dong Uk Ahn, Xi Huang, Yongguo Jin and Zhaoxia Cai

108650

Spray-and freeze-drying of microcapsules prepared by complex coacervation method: A review

Bertrand Muhoza, Huang Yuyang, Angelo Uriho,
Jean Damascene Harindintwali, Qian Liu and Yang Li

108629

How do the hydroxyl group number and position of polyphenols affect the foaming properties of ovalbumin?

Hedi Wen, Deju Zhang, Zhenzhen Ning, Zihao Li, Yan Zhang, Jingbo Liu and Ting Zhang

108602

Gelation mechanism of high soluble dietary fiber okara-egg tofu induced by combined treatment of steam explosion and enzymatic hydrolysis

Nuo Zhao, Jianfu Wu, Xiaoyuan Geng, Chenyang Wang, Tao Wu, Rui Liu, Wenjie Sui and Min Zhang

108651

Does the protein structure of β -lactoglobulin impact its complex coacervation with type A gelatin and the ability of the complexes to entrap lutein?

Martin Daniel Aya Rodriguez, Danilo C. Vidotto, Ana Augusta O. Xavier, Raphaela A. Mantovani and Guilherme M. Tavares

108638

Electrospun zein/C-phycocyanin composite: Simulation, characterization and therapeutic application

Mohammad Mahdi Hajjari, Mohammad-Taghi Golmakani and Niloufar Sharif

108623

Mechanistic insights into changes in endogenous water soluble pectin and carotenoid bioaccessibility in mango beverage upon high pressure processing

Kai Hu, Dongyan Chen, Mengting Chen, Aoli Xiang, Bijun Xie and Zhida Sun

108624

Colloidal network oleogels structured by sonothermal conjugates of sodium caseinate and anionic gums

Behraad Tirgarian, Jamshid Farmani, Reza Farahmandfar, Jafar M. Milani and Filip Van Bockstaele

108619

Probing the improved heat stabilizing capacity of dry heat conjugated whey protein in oil-in-water emulsions: A microrheological study

Qurrotul A'yun, Karl Coghe, Ferre Rebry, Chusnul Hidayat and Paul Van der Meeren

108625

Electrosprayed microparticles from inulin and poly(vinyl) alcohol for colon targeted delivery of prebiotics

Keara T. Saud, Jin Xu, Sabina Wilkanowicz, Yue He, James J. Moon and Michael J. Solomon

108658

Evolution of the structure of meat protein particles at the oil–water interface facilitates the ultra-long storage stability of high internal pickering emulsion

Shuyu Tan, Mingying Du, Gaibo Yuan, Liangyan Rong, Ruren Li and Guoliang Li

108661

Delaying *In vitro* gastric digestion of myofibrillar protein gel using carboxymethylated cellulose nanofibrils: Forming a compact and uniform microstructure

Kai Zhang, Xiaojing Tian, Ruixi Shen, Kaixuan Zhao, Yang Wang, Yafei Zhang and Wenhong Wang

108664

Emulsifiers from olive stones

Rania Elayeb, Flora Vardouli, Hatem Majdoub, Eleni P. Kalogianni, Anastasia Kyriakoudi, Sami Achour, Maher Trigui, Athina Theocharidou and Christos Ritzoulis

108660

Effect of egg white protein-insoluble soybean fiber interactions on the formation and structural characteristics of low-oil emulsion gels

Xiujie Zhao, Bifen Chen, Tongxun Liu, Yongjian Cai, Xinlun Deng, Mouming Zhao and Qiangzhong Zhao

108657

Exploring the mechanism of variation in 3D printing accuracy of cassava starch gels during freezing process

Minghao Xu, Shengyang Ji, Ye Li, Jun Li, Yuqi Liu, Kaimian Li and Baiyi Lu

108662

Ternary synergistic aggregation of chlorophyll/Soy protein isolate improves chlorophyll stability

Fangwei Li, Zhaotian Yang, Suxia Shen, Zhenhao Wang and Yan Zhang

108659

High hydrostatic pressure (HHP) as a green technology opens up a new possibility for the fabrication of electrospun nanofibers: Part I- improvement of soy protein isolate properties by HHP

Danial Dehnad, Bahareh Emadzadeh, Behrouz Ghorani and Ghadir Rajabzadeh

108666

The microstructure and gel properties of linseed oil and soy protein isolate based-oleogel constructed with highland barley β -glucan and its application in luncheon meat

Yanqing Ma, Fayin Ye, Jia Chen, Jian Ming, Caiqiong Zhou, Guohua Zhao and Lin Lei

108665

Edible particle-stabilized water-in-water emulsions: Stabilization mechanisms, particle types, interfacial design, and practical applications

Shizhang Yan, Joe M. Regenstein, Shuang Zhang, Yuyang Huang, Baokun Qi and Yang Li

108652

Interfacial, and emulsifying properties nexus of green pea protein fractions: Impact of pH and salt

Liuyi Chang, Yang Lan, Bingcan Chen and Jijia Rao

108680

Competitive adsorption of binary negatively charged proteins in egg white during foam evolution: From bulk solution to air-water interface

Haobo Jin, Jiajing Pan, Qi Zeng, Zuyue Li, Yongguo Jin and Long Sheng

108663

A microfluidic study of bubble formation and coalescence tuned by dynamic adsorption of SDS and proteins

Boxin Deng, Karin Schroën and Jolet de Ruiter

108682

Recent advances in emerging pectin-derived nanocarriers for controlled delivery of bioactive compounds

Meigui Huang, Yan Sun and Chen Tan

108672

The influence of anthocyanins in pectin-whey protein complexation using a natural pigmented blackcurrant pectin

Nurhazwani Salleh, Kelvin K.T. Goh, Mark R. Waterland, Lee M. Huffman, Mike Weeks and Lara Matia-Merino

108610

VSI: Fundamentals and application of food hydrocolloids

Katsuyoshi Nishinari, Yapeng Fang and Shingo Matsukawa

108677

Erratum to “Effects of purple passion fruit peel extracts on characteristics of Pouteria campechiana seed starch films and the application in discernible detection of shrimp freshness” [Food Hydrocolloids 138C 108477]

Haitao Jiang, Wanli Zhang and Weibo Jiang

108686

Corrigendum to “Co-folding of soy protein isolates and shellac by structural interplays to induce hydrogels” [Food Hydrocolloids 139 (2023) 108527]

Yang Guo, Zhi-guo Zhang, Jing Cai, Wei-rong Li, Ling-yun Chen and Wei-cheng Wu
