

LWT—Food Science and Technology

CONTENTS

Volume 126, May 2020

Research papers

- Rheological, textural and structural changes in dough and bread partially substituted with whole green banana flour**
A. Amini Khoozani, B. Kebede and A. El-Din Ahmed Bekhit 109252
- Use of physiological and transcriptome analysis to infer the interactions between *Saccharomyces cerevisiae* and *Lactobacillus sanfranciscensis* isolated from Chinese traditional sourdoughs**
H. Yang, F.A. Sadiq, T. Liu, G. Zhang and G. He 109268
- Insight into the effect of microcapsule technology on the processing stability of mulberry polyphenols**
D. Li, M. Zhu, X. Liu, Y. Wang and J. Cheng 109144
- Carapace color affects carotenoid composition and nutritional quality of the Chinese mitten crab, *Eriocheir sinensis***
Q. Li, L. Zu, Y. Cheng, N.M. Wade, J. Liu and X. Wu 109286
- Development and characterization of reinforced ethyl cellulose based oleogel with adipic acid: Its application in cake and beef burger**
L. Adili, L. Roufegarinejad, M. Tabibiazar, H. Hamishehkar and A. Alizadeh 109277
- Inhibition of pancreatic α -amylase by *Lonicera caerulea* berry polyphenols *in vitro* and their potential as hyperglycemic agents**
S. Liu, J. Yu, S. Guo, H. Fang and X. Chang 109288
- Effects of ethanol on gelation of iota-carrageenan**
D. Yang and H. Yang 109281
- Simultaneous determination of quality parameters in yerba mate (*Ilex paraguariensis*) samples by application of near-infrared (NIR) spectroscopy and partial least squares (PLS)**
G.B. Rossi and V.A. Lozano 109290
- Constituents and thermal properties of milk thistle seed oils extracted with three methods**
Z.-S. Zhang, S. Wang, H. Liu, B.-Z. Li and L. Che 109282
- Development and stability of novel selenium colloidal particles complex with peanut meal peptides**
M.-J. Ye, Q.-L. Xu, H.-Y. Tang, W.-Y. Jiang, D.-X. Su, S. He, Q.-Z. Zeng and Y. Yuan 109280
- Quantitative phosphoproteomics analysis of actomyosin dissociation affected by specific site phosphorylation of myofibrillar protein**
L. Cao, C. Hou, Z. Hussain, D. Zhang and Z. Wang 109269
- Biofilm formation of *Listeria monocytogenes* in hydroponic and soil grown lettuce leaf extracts on stainless steel coupons**
E.O. Kyere, G. Foong, J. Palmer, J.J. Wargent, G.C. Fletcher and S. Flint 109114
- Active biodegradable films based on water soluble polysaccharides from white jelly mushroom (*Tremella fuciformis*) containing roasted peanut skin extract**
A. Ju and K.B. Song 109293
- Rapid and visual detection of *Salmonella* in meat using invasins A (*invA*) gene-based loop-mediated isothermal amplification assay**
G.B. Priya, R.K. Agrawal, A.A. Prince Milton, M. Mishra, S.K. Mendiratta, A. Luke, S. Inbaraj, B.R. Singh, D. Kumar, G.R. Kumar and S. Rajkhowa 109262
- Influence of different yeast strains on the quality of fermented greengage (*Prunus mume*) alcoholic beverage and the optimization of fermentation conditions**
X. Han, Y. Zhao, B. Hu, H. Yang, Q. Peng and R. Tian 109292
- Prediction of total phenolics, ascorbic acid, antioxidant capacities, and total soluble solids of *Capsicum annuum* L. (bell pepper) juice by FT-MIR and multivariate analysis**
C.E. Cortés-Estrada, T. Gallardo-Velázquez, G. Osorio-Revilla, E. Castañeda-Pérez, O.G. Meza-Márquez, M. del Socorro López-Cortez and D.M. Hernández-Martínez 109285

- Influence of resistant starch, xanthan gum, inulin and defatted rice bran on the physicochemical, functional and sensory properties of low glycemic gluten-free noodles**
S. Raungrusmee, S. Shrestha, M.B. Sadiq and A.K. Anal 109279
- Evaluation of aleurone flour on dough, textural, and nutritional properties of instant fried noodles**
M. Xu, G.G. Hou, F. Ma, J. Ding, L. Deng, O. Kahraman, M. Niu, K. Trivetee, B. Lee, L. Wu and B.-K. Baik 109294
- Correction of defective textures in packaged dry-cured pork ham by applying conventional and ultrasonically-assisted mild thermal treatments**
M. Contreras, J. Benedito, A. Quiles, J.M. Lorenzo, E. Fulladosa and J.V. Garcia-Perez 109283
- Chemical profile and antioxidant potency of *Citrus aurantium* L. flower extracts with antibacterial effect against foodborne pathogens in rice pudding**
H. Degirmenci and H. Erkurt 109273
- Cashew wine and volatile compounds produced during fermentation by non-*Saccharomyces* and *Saccharomyces* yeast**
E.S.B. Rêgo, C.A. Rosa, A.L. Freire, A.M. de Resende Machado, F. de Cássia Oliveira Gomes, A.S.P. da Costa, M. da Costa Mendonça, M.L. Hernández-Macedo and F.F. Padilha 109291
- Individual and combined mild heat and UV-C processes for orange juice against *Escherichia coli* O157:H7**
G.A. Pagal and A.A. Gabriel 109295
- Probiotic jelly candies enriched with native Atlantic Forest fruits and *Bacillus coagulans* GBI-30 6086**
J.S. Miranda, B.V. Costa, I.V. de Oliveira, D.C.N. de Lima, E.M.F. Martins, B.R. de Castro Leite Júnior, W.C.A. do Nascimento Benevenuto, I.C. de Queiroz, R.R. da Silva and M.L. Martins 109275
- Isolation of lactic acid bacteria from kimchi and screening of *Lactobacillus sakei* ADM14 with anti-adipogenic effect and potential probiotic properties**
S.-M. Won, S. Chen, K.W. Park and J.-H. Yoon 109296
- Whey protein-iron or zinc complexation decreases pro-oxidant activity of iron and increases iron and zinc bioavailability**
B.G. Shilpashree, S. Arora, S. Kapila and V. Sharma 109287
- Green synthesis of zinc oxide nanoparticles using *Citrus sinensis* peel extract and application to strawberry preservation: A comparison study**
Y. Gao, D. Xu, D. Ren, K. Zeng and X. Wu 109297
- Evaluation of probiotic carboxymethyl cellulose-sodium caseinate films and their application in extending shelf life quality of fresh trout fillets**
M. Mozaffarzogh, A. Misaghi, Y. Shahbazi and A. Kamkar 109305
- The antibiotics resistance mechanism and pathogenicity of cold stressed *Staphylococcus aureus***
J. Qiao, M. Zhu, Z. Lu, F. Lv, H. Zhao and X. Bie 109274
- High prevalence of non-*faecalis* and non-*faecium* *Enterococcus* spp. in farmstead cheesehouse and their applicability as hygiene indicators**
S.-H. Kim, D.-H. Kim, H.-W. Lim and K.-H. Seo 109271
- Sanitizing efficacy and antimicrobial mechanism of peracetic acid against histamine-producing bacterium, *Morganella psychrotolerans***
D. Wang, S. Yamaki, Y. Kawai and K. Yamazaki 109263
- Probiotic properties and immune-stimulating effect of the Jeju lava seawater mineral-coated probiotics**
K.M. Kim, S.-J. Yang, D.S. Kim, C.-W. Lee, H.Y. Kim, S. Lee, J.-W. Choi, J. Sohn, S.S. Shin and S. Lee 109299
- Culture medium and gastrointestinal environment positively influence the *Saccharomyces cerevisiae* RC016 cell wall polysaccharide profile and aflatoxin B₁ bioadsorption**
A.S. Fochesato, A. Cristofolini, V.L. Poloni, A. Magnoli, C.I. Merkis, C.A. Dogi and L.R. Cavaglieri 109306
- Quality evaluation of chestnut flour addition on fresh pasta**
P. Littardi, M. Paciulli, E. Carini, M. Rinaldi, M. Rodolfi and E. Chiavaro 109303
- Separation and concentration of ω -3 PUFA-rich phospholipids by hydration of krill oil**
C. Showman, K. Barnes, J. Jaczynski and K.E. Matak 109284
- Collagenolytic proteases from *Bacillus subtilis* B13 and *B. siamensis* S6 and their specificity toward collagen with low hydrolysis of myofibrils**
S. Sorapukdee, P. Sumpavapol, S. Benjakul and P. Tangwacharin 109307
- Spoilage potential of a heat-stable lipase produced by *Serratia liquefaciens* isolated from cold raw milk**
C.A. Salgado, F. Baglinière and M.C.D. Vanetti 109289
- In vitro* evaluation of the efficacy of lactobacilli and yeasts in reducing bioavailability of inorganic arsenic**
M.J. Clemente, M.d.I.Á. Vivó, S. Puig, M. Zúñiga, V. Monedero, V. Devesa and D. Vélez 109272
- Fractionation and precipitation of licorice (*Glycyrrhiza glabra* L.) phytochemicals by supercritical antisolvent (SAS) technique**
S.E. Quintana, D.M. Hernández, D. Villanueva-Bermejo, M.R. García-Risco and T. Fornari 109315
- Protein composition and textural properties of inulin-enriched tofu produced by hydrothermal process**
S.P. Stanojevic, M.B. Barać, M.B. Pešić and B.V. Vucelic-Radovic 109309
- Probiotic characteristics of *Lactobacillus plantarum* AR113 and its molecular mechanism of antioxidant**
X. Lin, Y. Xia, Y. Yang, G. Wang, W. Zhou and L. Ai 109278
- Effects of power ultrasound enhancement on infrared drying of carrot slices: Moisture migration and quality characterizations**
Y. Guo, B. Wu, X. Guo, F. Ding, Z. Pan and H. Ma 109312

- Osborne extractability and chromatographic separation of protein from quinoa (*Chenopodium quinoa* Willd.) wholemeal**
J. Van de Vondel, M.A. Lambrecht and J.A. Delcour 109321
- A new approach to the use of apple pomace in cider making for the recovery of phenolic compounds**
D.G. Bortolini, L. Benvenuti, I.M. Demiate, A. Nogueira, A. Alberti and A.A.F. Zielinski 109316
- Profiling of pentacyclic triterpenes and polyphenols by LC-MS in Arbequina and Empeltre table olives**
R. Moreno-González, M.E. Juan and J.M. Planas 109310
- Optimization of the microwave treatment of linseed for cold-pressing linseed oil - Changes in its chemical and sensory qualities**
A. Szydłowska-Czerniak, A. Tymczewska, M. Momot and K. Włodarczyk 109317
- A nontargeted and targeted metabolomics study on the dynamic changes in metabolite levels during the anaerobic treatment of γ -aminobutyric acid (GABA) tea**
W. Dai, D. Xie, Z. Lin, C. Yang, Q. Peng, J. Tan and Z. Lin 109313
- A comparative study on the formation of heterocyclic amines and cholesterol oxidation products in fried chicken fiber processed under different traditional conditions**
K.-Y. Hsu and B.-H. Chen 109300
- Ultra high temperature (UHT) processability of high protein dispersions prepared from milk protein-soy protein hydrolysate mixtures**
J. Singh, S. Prakash, B. Bhandari and N. Bansal 109308
- In vitro* fermentation of raffinose to unravel its potential as prebiotic ingredient**
C. Amorim, S.C. Silvério, B.B. Cardoso, J.I. Alves, M.A. Pereira and L.R. Rodrigues 109322
- Liberation of fat from milk powder particles during chocolate processing through moisture-induced lactose crystallisation**
B. Böhme, R. Schneider, T. Harbs and H. Rohm 109343
- Sprouting process affects the lactic acid bacteria and yeasts of cereal, pseudocereal and legume flours**
G. Perri, F.M. Calabrese, C.G. Rizzello, M. De Angelis, M. Gobbetti and M. Calasso 109314
- Isolation, purification, identification, and stability of anthocyanins from *Lycium ruthenicum* Murr**
P. Liu, W. Li, Z. Hu, X. Qin and G. Liu 109334
- Influence of seed roasting on the quality of glucosinolate content and flavor in virgin rapeseed oil**
B. Jing, R. Guo, M. Wang, L. Zhang and X. Yu 109301
- Microbial inactivation and quality of grapes treated by plasma-activated water combined with mild heat**
Q. Xiang, R. Zhang, L. Fan, Y. Ma, D. Wu, K. Li and Y. Bai 109336
- Changes in the antioxidant properties of rice bran protein isolate upon simulated gastrointestinal digestion**
S.-J. Cho 109206
- Effect of ultrafiltration and fat content on chemical, functional, textural and sensory characteristics of goat milk-based Halloumi type cheese**
G.K. Deshwal, R. Ameta, H. Sharma, A.K. Singh, N.R. Panjagari and B. Baria 109341
- Microencapsulation of *Lactobacillus rhamnosus* ATCC 7469 in whey protein isolate-crystalline nanocellulose-inulin composite enhanced gastrointestinal survivability**
O. Maleki, M.A. Khaledabad, S. Amiri, A.K. Asl and S. Makouie 109224
- Inhibitory effect of cold nitrogen plasma on *Salmonella* Typhimurium biofilm and its application on poultry egg preservation**
L. Lin, X. Liao, C. Li, M.A. Abdel-Samie and H. Cui 109340
- Consumer acceptance and sensory drivers of liking of Minas Frescal Minas cheese manufactured using milk subjected to ohmic heating: Performance of machine learning methods**
R.S. Rocha, R.N. Calvalcanti, R. Silva, J.T. Guimarães, C.F. Balthazar, T.C. Pimentel, E.A. Esmerino, M.Q. Freitas, D. Granato, R.G.B. Costa, M.C. Silva and A.G. Cruz 109342
- Antifungal activity of mango kernel polyphenols on mango fruit infected by anthracnose**
D. Gómez-Maldonado, C. Lobato-Calleros, E. Aguirre-Mandujano, S.G. Leyva-Mir, L. Robles-Yerena and E.J. Vernon-Carter 109337
- Characterizing Halloumi cheese's bacterial communities through metagenomic analysis**
E. Kamilari, D.A. Anagnostopoulos, P. Papademas, A. Kamilaris and D. Tsaltas 109298
- Influence of the type of alkali on the processing of black ripe olives**
P. García-Serrano, C. Romero, P. García-García and M. Brenes 109318
- Microbial diversity of fermented dough and volatile compounds in steamed bread prepared with traditional Chinese starters**
B. Suo, W. Nie, Y. Wang, J. Ma, X. Xing, Z. Huang, C. Xu, Z. Li and Z. Ai 109350
- Effect of partial substitution of buckwheat on cooking characteristics, nutritional composition, and *in vitro* starch digestibility of extruded gluten-free rice noodles**
M. Fu, X. Sun, D. Wu, L. Meng, X. Feng, W. Cheng, C. Gao, Y. Yang, X. Shen and X. Tang 109332
- Total phenolics, total carotenoids, individual phenolics and antioxidant activity of ginger (*Zingiber officinale*) rhizome as affected by drying methods**
K. Ghafoor, F. Al Juhaime, M.M. Özcan, N. Uslu, E.E. Babiker and I.A. Mohamed Ahmed 109354
- Short communications**
- Insights into effects of temperature and ultraviolet light on degradation of tocored with HPLC and UPC²-QTOF-MS**
L. Zheng, J. Jin, E. Karrar, J. Huang, M. Chang, X. Wang, H. Zhang and Q. Jin 109302
- Temperature dependence of the viscoelastic properties of an acid-curd Spanish cheese: Afuega'l Pitu *atroncau roxu* variety (PDO)**
L. Piñeiro-Lago, I. Franco and C.A. Tovar 109304