

LWT—Food Science and Technology

CONTENTS

Volume 108, July 2019

Research papers

- Development of a physicochemical method to quantify the extracellular liquid volume: Application to the transformation of cassava into gari**
E. Rondet, L. Dahdouh, A. Escobar, E. Ruiz, B. Cuq and M. Delalonde
- Green pepper essential oil as a biopreservative agent for fish-based products: Antimicrobial and antivirulence activities against *Pseudomonas aeruginosa* KM01**
K. Myszka, A. Olejnik, M. Majcher, N. Sobieszcańska, A. Grygier, J. Powierska-Czarny and M. Rudzińska
- Systematic application of slightly acidic electrolyzed water (SAEW) for natural microbial reduction of buckwheat sprouts**
D. Liang, Q. Wang, D. Zhao, X. Han and J. Hao
- Effects of mixed starter cultures and exogenous L-Lys on the physicochemical and sensory properties of rapid-fermented fish paste using longsnout catfish by-products**
R. Gao, Z. Zheng, J. Zhou, H. Tian and L. Yuan
- Effect of the incorporation of a fermented rooibos (*Aspalathus linearis*) extract in the manufacturing of rabbit meat patties on their physical, chemical, and sensory quality during refrigerated storage**
M. Cullere, G. Tasoniero, G. Secci, G. Parisi, P. Smit, L.C. Hoffman and A. Dalle Zotte
- Characterization of acid – Induced gels of quinoa proteins and carrageenan**
N. Montellano Duran, D. Spelzini and V. Boeris
- Rapid detection of *Yersinia enterocolitica* using a single-walled carbon nanotube-based biosensor for Kimchi product**
A. Sobhan, J. Lee, M.-K. Park and J.-H. Oh
- Effect of probiotification with *Lactobacillus plantarum* MCC 2974 on quality of Sohiong juice**
K. Vivek, S. Mishra, R.C. Pradhan and R. Jayabalan
- Qualitative improvement of camel milk date yoghurt by addition of biosynthesized xanthan from orange waste**
A. Mohsin, H. Ni, Y. Luo, Y. Wei, X. Tian, W. Guan, M. Ali, I.M. Khan, S. Niazi, S.-u. Rehman, Y. Zhuang and M. Guo
- Effects of new technology on the current manufacturing process of yogurt-to increase the overall marketability of yogurt**
K. Das, R. Choudhary and K.A. Thompson-Witrick
- 1 Camel whey protein microparticles for safe and efficient delivery of novel camel milk derived probiotics**
M. Ahmad, P. Mudgil and S. Maqsood
- 6 Preparation of alcohol free propolis-alginate microcapsules, characterization and release property**
M. Keskin, Ş. Keskin and S. Kolayli
- 14 Bioactive water-soluble peptides from fresh buffalo cheese may be used as product markers**
D.D.d. Silva, M.d.S.F.d. Lima, M.F.d. Silva, G.R.d. Silva, J.F. Campos, W.W.C. Albuquerque, M.T.H. Cavalcanti and A.L.F. Porto
- 21 Ultrasound-assisted immersion freezing accelerates the freezing process and improves the quality of common carp (*Cyprinus carpio*) at different power levels**
Q. Sun, X. Zhao, C. Zhang, X. Xia, F. Sun and B. Kong
- 31 Inactivation of *Bacillus subtilis* and quality assurance in Chinese bayberry (*Myrica rubra*) juice with ultrasound and mild heat**
J. Li, H. Cheng, X. Liao, D. Liu, Q. Xiang, J. Wang, S. Chen, X. Ye and T. Ding
- 39 Hydrolysates from rainbow trout (*Oncorhynchus mykiss*) processing by-product with different pretreatments: Antioxidant activity and their effect on lipid and protein oxidation of raw fish emulsion**
M. Nikoo, S. Benjakul, M. Yasemi, H. Ahmadi Gavlighi and X. Xu
- 48 Volatile fingerprinting differentiates diverse-aged craft beers**
E. Coelho, J. Magalhães, F.B. Pereira, F. Macieira, L. Domingues and J.M. Oliveira
- 55 Effect of milling methods on the properties of rice flour and gluten-free rice bread**
T. Wu, L. Wang, Y. Li, H. Qian, L. Liu, L. Tong, X. Zhou, L. Wang and S. Zhou
- 61**

Effect of adding <i>Brosimum gaudichaudii</i> and <i>Pyrostegia venusta</i> hydroalcoholic extracts on the oxidative stability of beef burgers <i>N.S. de Oliveira Ferreira, M. Rosset, G. Lima, P.M. Suelp Campelo and R.E.F. de Macedo</i>	145	Antibiofilm activity of the essential oil of <i>Campomanesia aurea</i> O. Berg against microorganisms causing food borne diseases <i>D. Kuhn, R. Ziem, T. Scheibel, B. Buhl, G. Vettorello, L.A. Pacheco, D. Heidrich, C. Kauffmann, E.M. de Freitas, E.M. Ethur and L. Hoehne</i>	247
Sodium-chloride reduction by substitution with potassium, calcium and magnesium salts in wheat bread <i>A.-M. Reißner, J. Wendt, S. Zahn and H. Rohm</i>	153	New alternative to reduce sodium chloride in meat products: Sensory and microbiological evaluation <i>R. Raybaudi-Massilia, J. Mosqueda-Melgar, Y. Rosales-Oballos, R. Citti de Petricone, N.N. Frágenas, A. Zambrano-Durán, K. Sayago, M. Lara and G. Urbina</i>	253
Effect of ethanolic coconut husk extract and pre-emulsification on properties and stability of surimi gel fortified with seabass oil during refrigerated storage <i>N. Buamard and S. Benjakul</i>	160	Effect of anticaking agents on hardening and Maillard-induced protein aggregation in high-protein nutrition bars formulated with whey protein concentrate <i>X. Meng, J. Ji, X. Qi and X. Nie</i>	261
Impact of peanut roasting on <i>Salmonella</i> spp. survival <i>F.S. Prestes, A.C.M. da Silva, A.A.M. Pereira and M.d.S.d. Nascimento</i>	168	Quantitative issues related to the headspace-SPME-GC/MS analysis of volatile compounds in wines: the case of <i>Maresco</i> sparkling wine <i>M. Tufariello, S. Pati, L. D'Amico, G. Blevé, I. Losito and F. Grieco</i>	268
¹ H-NMR-based water-soluble low molecular weight compound characterization and free fatty acid composition of five kinds of Yunnan dry-cured hams <i>S. Liu, G. Wang, Z. Xiao, Y. Pu, C. Ge and G. Liao</i>	174	Extrusion processing for pre-sweetened noodle grits for the preparation of ready-to-prepare <i>kheer</i> : Stability of added intense sweeteners <i>A.M. Bawane and R.S. Singhal</i>	277
Ohmic heating effects on <i>Listeria monocytogenes</i> inactivation, and chemical, physical, and sensory characteristic alterations for vacuum packaged sausage during post pasteurization <i>P. Inmanee, P. Kamonpatana and T. Pirak</i>	183	Effect of freezing-thawing on weight loss, melanosis, and microbial growth in mildly cooked snow crab (<i>Chionoecetes opilio</i>) clusters <i>G. Lorentzen, F. Lian, A.A. Røhme, E. Johannessen, K.V. Grastveit, A.E. Grip and S.I. Siikavuopio</i>	283
Fungi in air, raw materials and surface of dry fermented sausage produced in Brazil <i>G. Parussolo, A.O. Bernardi, M.V. Garcia, A. Stefanello, T.d.S. Silva and M.V. Copetti</i>	190	Evaluation of water dynamics and protein changes in bigeye tuna (<i>Thunnus obesus</i>) during cold storage <i>X.-Y. Wang and J. Xie</i>	289
Influence of temperature and of starter culture on biochemical characteristics and the aromatic compounds evolution on type II sourdough and wheat bread <i>F.B. Siepmann, B. Sousa de Almeida, N. Waszczynskyj and M.R. Spier</i>	199	Survival of <i>Escherichia coli</i> O157:H7 and <i>Listeria monocytogenes</i> in an acidified low-fat mayonnaise based hibachi sauce <i>D. Hwang, E. White, A. Purohit, A. Mohan and A. Mishra</i>	297
A2A2 milk: Brazilian consumers' opinions and effect on sensory characteristics of Petit Suisse and Minas cheeses <i>M. Oliveira Mendes, M. Ferreira de Moraes and J. Ferreira Rodrigues</i>	207	Functional whole wheat breads: Compelling internal architecture <i>B.M. Ghodki, G. Dadlani, D.M. Ghodki and S. Chakraborty</i>	301
Correlation analysis of key enzyme activities and aroma compounds during fermentation of simulated juice system with <i>Saccharomyces cerevisiae</i> <i>Y. Yang, M. Li, Z. Zhang and B. Peng</i>	214	Effects of microwave irradiation on the distribution of sinapic acid and its derivatives in rapeseed and the antioxidant evaluation <i>Y. Cong, L.-Z. Cheong, F. Huang, C. Zheng, C. Wan and M. Zheng</i>	310
Characterisation of key odourants in Japanese green tea using gas chromatography-olfactometry and gas chromatography-mass spectrometry <i>H.R. Tan, H. Lau, S.Q. Liu, L.P. Tan, S. Sakumoto, B. Lassabliere, K.-C. Leong, J. Sun and B. Yu</i>	221	Characterisation, antimicrobial resistance and diversity of atypical EPEC and STEC isolated from cow's milk, cheese and dairy cattle farm environments <i>E.A. Rios, J. Santos, I. García-Meniño, S.C. Flament-Simon, J. Blanco, M.-L. García-López, A. Otero and J.M. Rodríguez-Calleja</i>	319
Effect of temperature, pH, β - and HP- β -cDs on the solubility and stability of flavanones: Naringenin and hesperetin <i>C. Lucas-Abellán, M. Pérez-Abril, J. Castillo, A. Serrano, M.T. Mercader, M.I. Fortea, J.A. Gabaldón and E. Núñez-Delgado</i>	233	Structural characterization of soybean milk particles during <i>in vitro</i> digestive/non-digestive simulation <i>W. Liu, H. Lou, C. Ritzoulis, X. Chen, P. Shen, Y. Lu, K. Wu, L. Dong, H. Zhu and J. Han</i>	326
Effects of high pressure processing on the copigmentation reaction of pelargonidin-3-glucoside and catechin <i>H. Zou, Y. Ma, X. Liao and Y. Wang</i>	240	Effect of chitosan coatings with and without <i>Stevia rebaudiana</i> and modified atmosphere packaging on quality of cold stored fresh-cut apples <i>Ş. Karagöz and A. Demirdöven</i>	332

Optimization of conjugated linoleic acid production by <i>Bifidobacterium animalis</i> subsp. <i>Lactis</i> and its application in fermented milk <i>B. Esmailnejad Moghadam, F. Keivaninahr, A. Nazemi, M. Fouladi, R. Rezaei Mokarram and K. Zoroufchi Benis</i>	344	Evaluation of aroma characteristics of sugarcane (<i>Saccharum officinarum</i> L.) juice using gas chromatography-mass spectrometry and electronic nose <i>L. Wang, P. Wang, W. Deng, J. Cai and J. Chen</i>	400
Survival and implantation of indigenous psychrotrophic <i>Oenococcus oeni</i> strains during malolactic fermentation in a Patagonian Pinot noir wine <i>C. Manera, N.T. Olguin, B.M. Bravo-Ferrada, E.E. Tymczyszyn, L. Delfederico, H. Bibiloni, A.C. Caballero, L. Semorile and D.V. La Hens</i>	353	Enrichment of sheep cheese with chia (<i>Salvia hispanica</i> L.) oil as a source of omega-3 <i>N. Muñoz-Tébar, J.A. De la Vara, G. Ortiz de Elguea-Culebras, E.L. Cano, A. Molina, M. Carmona and M.I. Berruga</i>	407
Jerusalem artichoke tuber flour as a wheat flour substitute for biscuit elaboration <i>A. Díaz, R. Bomben, C. Dini, S.Z. Viña, M.A. García, M. Ponzi and N. Comelli</i>	361	Effects of hot water dipping on apple heat transfer and post-harvest fruit quality <i>T. Kabelitz, B. Schmidt, W.B. Herppich and K. Hassenberg</i>	416
Impact of shear and pH on properties of casein micelles in milk protein concentrate <i>C.S. Ranadheera, W.S. Liyanaarachchi, M. Dissanayake, J. Chandrapala, T. Huppertz and T. Vasiljevic</i>	370	Polyphenols accumulation effects on surface color variation in apple slices hot air drying process <i>X. Li, X. Wu, J. Bi, X. Liu, X. Li and C. Guo</i>	421
Wine quality rapid detection using a compact electronic nose system: Application focused on spoilage thresholds by acetic acid <i>J.C. Rodriguez Gamboa, E.S. Albarracin E, A.J. da Silva, L. L. de Andrade Lima and T.A. E. Ferreira</i>	377	Assessing the preservative efficacy of nanoencapsulated mace essential oil against food borne molds, aflatoxin B₁ contamination, and free radical generation <i>A. Yadav, A. Kujur, A. Kumar, P.P. Singh, B. Prakash and N.K. Dubey</i>	429
Production of polyhedral oligomeric silsesquioxane (POSS) containing low density polyethylene (LDPE) based nanocomposite films for minced beef packaging for extension of shelf life <i>H. Kavuncuoglu, H. Yalcin and M. Dogan</i>	385	Chemometric classification and quantification of sesame oil adulterated with other vegetable oils based on fatty acids composition by gas chromatography <i>C. Xing, X. Yuan, X. Wu, X. Shao, J. Yuan and W. Yan</i>	437
Emulsion stabilizing capacity of sugar beet fibers compared to sugar beet pectin and octenyl succinate modified maltodextrin in the production of O/W emulsions: individual and combined impact <i>N. Maravić, Z. Šereš, I. Nikolić, P. Dokić, S. Kertész and L. Dokić</i>	392	Conversion of carp roe mass to caviar substitutes: Stabilization with oregano extract <i>P.K. Binsi, N. Nayak, P.C. Sarkar, U. Sahu, K.V. Lalitha, G. Ninan and C.N. Ravishankar</i>	446
		Short communication	
		Flavour retention and removal of dissolved carbon dioxide in the solution treated with low-pressure carbon dioxide microbubbles <i>F. Kobayashi and S. Odake</i>	338