

REVIEWS

- Effects of electric fields and electromagnetic wave on food protein structure and functionality: A review** by Zhong Han, Meng-jie Cai, Jun-Hu Cheng and Da-Wen Sun 1
- Surface enhanced Raman spectroscopy (SERS): A novel reliable technique for rapid detection of common harmful chemical residues** by Yingfen Jiang, Da-Wen Sun, Hongbin Pu and Qingyi Wei 10
- Titanium dioxide (TiO₂) photocatalysis technology for nonthermal inactivation of microorganisms in foods** by Zhiwei Zhu, Huanhuan Cai and Da-Wen Sun 23
- Occurrence of trace metals in foodstuffs and their health impact** by Ahmed A. El-Kady and Mosaad A. Abdel-Wahhab 36
- Effects of freezing on cell structure of fresh cellular food materials: A review** by Dongmei Li, Zhiwei Zhu and Da-Wen Sun 46
- Next-generation therapies for celiac disease: The gluten-targeted approaches** by Miguel Ribeiro, Fernando M. Nunes, Marta Rodriguez-Quijano, Jose Maria Carrillo, Gérard Branlard and Gilberto Igrejas 56
- Dietary nutrition and gut microflora: A promising target for treating diseases** by Ying Nie, Feijun Luo and Qinlu Lin 72
- Improving food products' quality and storability by using Layer by Layer edible coatings** by Hadar Arnon-Rips and Elena Poverenov 81

Eco-innovative technologies for extraction of proteins for human consumption from renewable protein sources of plant origin by Milica Pojić, Aleksandra Mišan and Brijesh Tiwari	93
Postbiotics: An evolving term within the functional foods field by J.E. Aguilar-Toalá, R. Garcia-Varela, H.S. Garcia, V. Mata-Haro, A.F. González-Córdova, B. Vallejo-Cordoba and A. Hernández-Mendoza	105
Technological functionality and biological properties of food protein nanofibrils formed by heating at acidic condition by Mehdi Mohammadian and Ashkan Madadlou	115
Human exposure to nanoparticles through trophic transfer and the biosafety concerns that nanoparticle-contaminated foods pose to consumers by Mahsan Karimi, Rohollah Sadeghi and Jozef Kokini	129
Flaxseed gum a versatile natural hydrocolloid for food and non-food applications by Jun Liu, Youn Young Shim, Timothy J. Tse, Yong Wang and Martin J.T. Reaney	146
Modifications of starch by electric field based techniques by Fan Zhu	158
Nutritional constituents of pseudo cereals and their potential use in food systems: A review by Nisar Ahmad Mir, Charanjit Singh Riar and Sukhcharn Singh	170
Stability of bioactive compounds in fruit jam and jelly during processing and storage: A review by Kaunsar Jabeen Shinwari and Pavuluri Srinivasa Rao	181
Innovative food processing technologies on the transglutaminase functionality in protein-based food products: Trends, opportunities and drawbacks by Seyed Mohammad Taghi Gharibzahedi, Shahin Roohinejad, Saji George, Francisco J. Barba, Ralf Greiner, Gustavo V. Barbosa-Cánovas and Kumar Mallikarjunan	194
A comprehensive review of mathematical modeling of paddy parboiling and drying: Effects of modern techniques on process kinetics and rice quality by G. Behera and P.P. Sutar	206
3D printing technology: The new era for food customization and elaboration by Iman Dankar, Amira Haddarah, Fawaz E.L. Omar, Francesc Sepulcre and Montserrat Pujolà	231
Corrigendum to “Microwave-assisted food processing technologies for enhancing product quality and process efficiency: A review of recent developments” [Trends Food Sci. Technol. 67 (2017) 58–69] by Flora-Glad Chizoba Ekezie, Da-Wen Sun, Zhong Han and Jun-Hu Cheng	243