

# TRENDS IN FOOD SCIENCE & TECHNOLOGY

## REVIEWS

- Gradients in compositions in the starchy endosperm of wheat have implications for milling and processing** by Paola Tosi, Jibin He, Alison Lovegrove, Irene Gonz ales-Thuillier, Simon Penson and Peter R. Shewry 1
- Membrane-based technologies as an emerging tool for separating high-added-value compounds from natural products** by Roberto Castro-Mu oz and Vlastimil F la 8
- Metal oxide-based nanocomposites in food packaging: Applications, migration, and regulations** by Coralia V. Garcia, Gye Hwa Shin and Jun Tae Kim 21
- Advanced glycation end-products (AGEs) in foods and their detecting techniques and methods: A review** by Qingyi Wei, Ting Liu and Da-Wen Sun 32
- Biomimetic plant foods: Structural design and functionality** by Duc Toan Do, Jaspreet Singh, Indrawati Oey and Harjinder Singh 46
- Valorisation of pineapple wastes for food and therapeutic applications** by Shivali Banerjee, Vijayaraghavan Ranganathan, Antonio Patti and Amit Arora 60
- Encapsulation systems for lutein: A review** by Benjamin M. Steiner, David Julian McClements and Gabriel Davidov-Pardo 71

*(Contents continued overleaf)*

*(contents continued)*

- A minireview of effects of white tea consumption on diseases** by Nevin Sanlier, Ilker Atik and Azize Atik 82
- Selected commercial plants: A review of extraction and isolation of bioactive compounds and their pharmacological market value** by Jayanta Kumar Patra, Gitishree Das, Siyoung Lee, Seok-Seong Kang and Han-Seung Shin 89
- Chestnuts and by-products as source of natural antioxidants in meat and meat products: A review** by Noemí Echegaray, Belén Gómez, Francisco J. Barba, Daniel Franco, Mario Estévez, Javier Carballo, Krystian Marszałek and Jose M. Lorenzo 110
- Lean, six sigma and lean six sigma in the food industry: A systematic literature review** by Luana Bonome Message Costa, Moacir Godinho Filho, Lawrence D. Fredendall and Fernando José Gómez Paredes 122
- Microencapsulation of antioxidant compounds through innovative technologies and its specific application in meat processing** by Belén Gómez, Francisco J. Barba, Rubén Domínguez, Predrag Putnik, Danijela Bursać Kovačević, Mirian Pateiro, Fidel Toldrá and Jose M. Lorenzo 135
- Hazards of a 'healthy' trend? An appraisal of the risks of raw milk consumption and the potential of novel treatment technologies to serve as alternatives to pasteurization** by Oluwadara Oluwaseun Alegbeleye, Jonas T. Guimarães, Adriano G. Cruz and Anderson S. Sant'Ana 148
- Current research on cellobiose 2-epimerase: Enzymatic properties, mechanistic insights, and potential applications in the dairy industry** by Qiuming Chen, Yaqin Xiao, Wenli Zhang, Tao Zhang, Bo Jiang, Timo Stressler, Lutz Fischer and Wanmeng Mu 167
- Corrigendum to "Gradients in compositions in the starchy endosperm of wheat have implications for milling and processing" [Trends in Food Science and Technology 82 (2018) 1–7]** by Paola Tosi, Jibin He, Alison Lovegrove, Irene Gonzáles-Thuillier, Simon Penson and Peter R. Shewry 134