

## Special Issue

# Essential Oils: Recent Advances in Extraction Processes, Fundamental Modeling, Chemical Analysis, and Applications

### Message from the Guest Editors

The recent advances in conventional and traditional processes of essential oils (EO) extraction such as hydrodistillation, steam-distillation, hydro-diffusion, solvent, enfleurage, etc., have been recently used under various intensified routes (ultra-sound-assisted hydrodistillation, ohmic heating-assisted hydrodistillation, DIC, etc.). Other innovative and new processes have been studied and developed on an industrial scale. They have required fundamental analysis of physical transfer phenomena to use sub or supercritical-fluid extraction, microwave-assisted extraction, ultrasound-assisted extraction, DIC extraction, DIC-expansion-assisted hydrodistillation and steam-distillation, DIC-autovaporization, and MFA extraction. Specific advances in assessment by chromatography (SPME-GC, GC-FID, GC-MS, GC-MS/MS, etc.) were obtained. Studies, also, have included the impact of variability in varieties, environmental conditions, harvesting periods, etc. Therefore, one of the major emerging aspects in essential oil extraction from several plants has been to perform multi-valorization by extracting several non-volatile bioactive compounds such as antioxidants, etc.

### Guest Editors

Prof. Dr. Karim Allaf

LMTAI; LaSIE, UMR 7356 CNRS; La Rochelle University Avenue Michel Crepeau, 17042 La Rochelle, France

Dr. Colette BESOMBES

Assistant-Professor in Process Engineering, IUT of the University de La Rochelle, Laboratory of Engineering Science for Environment LaSIE UMR 7356 CNRS, France

### Deadline for manuscript submissions

closed (15 July 2019)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[foods@mdpi.com](mailto:foods@mdpi.com)

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*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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### Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA
2. Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA

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