

Special Issue

Novel Strategies to Obtain Food Ingredients from Algal Biomass: Extraction and Characterization

Message from the Guest Editors

As guest editor of this Special Issue of *Foods*, I am pleased to invite contributions focused on the valorization of algal biomass, including both microalgae and macroalgae, for the sustainable development of high-value food ingredients. Algae represent a promising resource, rich in bioactive compounds such as dietary fibers, polyphenols, unsaturated fatty acids, proteins, and bioactive peptides, with potential applications in the formulation of functional and clean-label foods. This Special Issue aims to explore novel, cost-effective, and eco-friendly extraction technologies that align with the principles of the circular economy. Emphasis will be placed on non-thermal and green processing techniques, such as ultrasound-assisted extraction, microwave-assisted extraction, enzyme-assisted extraction, pulsed electric fields, and the use of green solvents. Furthermore, advanced analytical tools, including FTIR, TGA, HPLC-MS, NMR, and GC-MS, are essential to ensure the accurate characterization and quality assessment of the recovered ingredients.

Guest Editors

Dr. Thatyane Vidal Fonteles

Department of Food Engineering, Federal University of Ceara, Fortaleza 60440-900, CE, Brazil

Prof. Dr. Sueli Rodrigues

Department of Food Engineering, Federal University of Ceara, Fortaleza 60440-900, CE, Brazil

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Foods
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
foods@mdpi.com

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About the Journal

Message from the Editor-in-Chief

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.

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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