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Seaweed Biology: Focusing on Food, Materials and Bioenergy—2nd Edition

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closed (31 May 2025)

Message from the Guest Editors

Over recent decades, enormous progress has been made in the knowledge and use of seaweeds as food, fertilizer, sustainable materials, and energy sources, which should certainly be part of the strategies that humankind should consider in these areas. Seaweed, by reducing cattle methane, replacing fossil plastic, and storing enormous amount of carbon, shows huge potential in the pursuit of global food security and fighting climate change. Innovative seaweed cultivation techniques, micro-propagation and breeding tools, biomass processing optimizations coupled with robotic, advanced sensing, and monitoring techniques are delivering improved productivity and can better ensure the sustainable development of the seaweed farming and processing industry.

In this Special Issue Seaweed Biology: Focusing on Food, Materials and Bioenergy, papers will be accepted from a broad scope of interdisciplinary research on seaweed biology, cultivation, seaweeds for food, sustainable material, and energy viewpoints, from basic molecular biology to industrial application. Original research papers, methods, reviews, and perspectives are welcomed for submission.



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Special Issue



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Message from the Editor-in-Chief

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