

Special Issue

Macroalgae as Innovative Agricultural Inputs and Climate-Smart Agroecosystems: From the Sea to the Soil

Message from the Guest Editors

Marine macroalgae are emerging as a versatile and sustainable resource with vast potential to transform modern agriculture. This Special Issue aims to gather cutting-edge research, reviews, and applied studies focused on the development and application of macroalgae-derived technologies and products to promote climate-smart and circular agroecosystems. We welcome original contributions that explore the extraction, characterization, formulation, and efficacy of bio-based agricultural inputs such as biofertilizers, biostimulants, soil conditioners, and controlled-release fertilizers derived from macroalgae biomass. The submission of studies addressing macroalgal extracts' physiological, biochemical, and molecular effects on crop growth, stress tolerance, and soil health is highly encouraged. For this Special Issue, we hope to receive interdisciplinary studies bridging marine biotechnology, soil science, plant physiology, and sustainable agriculture, fostering innovations that contribute to the development of resilient and productive agroecosystems.

Guest Editors

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