

Special Issue

Soil Biostimulants: Advanced Insights into Benefits, Limitations and Mechanisms of Action

Message from the Guest Editors

The agricultural revolution of the last century, which supported the worldwide unprecedented growth of the global population, was made possible by availability of chemical fertilizers at relatively low prices. This development model has nowadays shown its limits in terms of yields expansion and is causing severe environmental impacts. Use of soil biostimulants has emerged as a potentially winning strategy by fostering plant productivity, fertilizer efficiency and, in particular, resilience to abiotic stresses; however, results lack robustness, showing large variability. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Mechanisms of action
- Effects on soil biochemical properties and microbial communities
- Evaluation of soil and crop response to applications
- Uses in soil remediation and reclamation
- Effects on crop residues mineralization
- Novel formulations
- Management issues such as application rates, frequency of application, coupling with mineral and organo-mineral fertilizers, etc.

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Deadline for manuscript submissions

31 December 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/265393

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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