

Special Issue

Sustainable Agro-Ecosystems: The Role of Innovative Amendments in Crop Production Under Polluted Environments

Message from the Guest Editors

Global demand for food is expected to continue increasing markedly in the coming decades, mainly due to human population growth, but also to rising incomes in developing countries. On the other hand, the increase in industrialization has caused the deterioration of soil, environment, and ultimately food quality. Agricultural crop production has been especially threatened by climatic extremes, including but not limited to droughts, salinity stress, heavy metal stress, water logging, heat waves, potentially toxic elements (PTEs), and attack by pathogens. Therefore, more suitable strategies should be considered to produce more food on the existing land base, while simultaneously reducing environmental impacts. Pertinent to this, novel agricultural approaches to sustain agricultural production on marginal/degraded lands have been developed, our understanding of the effects of innovative (organic and inorganic) amendments on crop stress (biotic and abiotic) tolerance is limited. This Special Issue will also focus on such interactions, rhizospheric modifications/engineering, and the role of plant-growth-promoting rhizobacteria (PGPR) in sustainable crop production.

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Deadline for manuscript submissions

closed (31 December 2021)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/72287

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