Special Issue

Nano-Bioremediation Approaches for Degraded Soils and Sustainable Crop Production

Message from the Guest Editors

The environmental pollution mediated by a variety of organic, inorganic, persistent, and non-persistent pollutants has a substantial impact on agriculture. Therefore, to resolve this global concern, nanotechnological advances could provide significant potential for decontamination of many polluted sites for sustainable agriculture. Nanotechnology is a fast-expanding field with a wide array of applications in different areas. Additionally, it has not shied away from environmental remediation and research in this direction is progressing. Therefore, this Special Issue could be interesting for a wide range of researchers and will improve the scientific gaps of nanotechnology-based remediation to make it less hazardous and more reusable.

This Special Issue will be combined with original research and critical reviews related to environmental protection, resource conservation, soil remediation, sustainable agriculture, climate change mitigation, and carbon emission reduction through nanotechnological approaches.

Guest Editors

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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