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Innovative Approaches for Metal Remediation in Soils and Water

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Message from the Guest Editors

Metals and metalloids are among the most critical pollutants of water and soils. Although often included under the term "heavy metals", elements of concern include arsenic, aluminum, and selenium, which are not heavy metals in sensu stricto.

Although metallic and metalloidal elements differ greatly in terms of their physico-chemical properties, they still possess several commonalities: they occur naturally, are not degradable, and are toxic to biota when surpassing certain environmental concentrations. Varying in their properties, the search for remediation technologies must be undertaken. There is a strong need for innovation when it comes to the remediation of contaminated waterbodies and soils.

This Special Issue welcomes contributions practicing approaches which have sustainability as a clear goal and show a distinct commitment towards the development of greener chemistry/technology.

Keywords: green solvents; sustainable methods; recyclable components, bio-remediation; phytoremediation; mycoremediation; microbial remediation; adsorbent biomaterials







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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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