

Special Issue

Metal Toxicology and Essentiality

Message from the Guest Editor

The industrial activities of modern civilization are leading to increased concentrations of certain metals in our environment. One of the consequences is that certain metals accumulate to toxic levels. Clearly, living organisms have always been influenced by metals at the surface of the Earth through geological periods.

However, the anthropogenic contaminations have created a new situation. Although scientists have been aware of the toxicity of some metals for a long time, an increasing interest for metal toxicity and the role of metal imbalances in pathogenesis of various diseases are of newer date. Our knowledge of the essential roles of some metals is also rapidly increasing, as is also our insights and possibilities for therapy of metal storage diseases. It is the aim of this Special Issue to provide information and updates for the physician and toxicologist, geologist, analyst, chemist, and scientist, as well as for students in pharmacy, nutrition, chemistry or medicine.

Deadline for manuscript submissions

closed (31 August 2018)



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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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