

Special Issue

Studies on Heavy Metals and Health

Message from the Guest Editor

In today's society, human exposure to heavy metals from lithogenic or anthropogenic origins occurs via a variety of mechanisms. As concentrations of the heavy metal increases, a wide range of health-related changes occur. Many of the heavy metals are known carcinogens. Additionally, metal-dependent damage to multiple organ systems can occur with primary targets being the kidneys, liver, brain and other rapidly dividing cells. The acceptable level of exposure has been reduced for many of these heavy metals as our understanding has improved. There is much more that needs to be done to further our understanding of the cellular action of heavy metals and how complex metal exposures (more than one metal) may interact within the human body. For this Special Issue, the reports can focus on lithogenic or anthropogenic sources of heavy metals, or a combination of both. Studies which examine exposure to more than one heavy metal simultaneously are of particular interest. The goal of this Special Issue is to form a repository of current and diverse work investigating the health effects associated with exposure to heavy metals.

Guest Editor

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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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