# **Special Issue**

### Bio-Geochemistry of Heavy Metals/Metalloids

### Message from the Guest Editors

The subject of this Special Issue is the presentation of new results and/or comprehensive reviews on the: -Sources and processes of heavy metal/metalloid transfer to the food chain and their effect on human health and ecosystems. - The uptake and biotransformation mechanisms occurring in plants and their role in bioaccumulation. - The correlation between metal/metalloid toxicity and the oxidation state, physicochemical conditions of the environment, ligands, solubility, and other factors. - Comparison of the physico/chemical characteristics between the plant-soil interface termed the rhizosphere system and the bulk soil. - Mechanisms associated with the toxic effects of heavy metals/metalloids in humans and ecosystems. -The role of micro-organisms in metal recovery from raw ore materials and environmental risk. - Implications of biogeochemistry for human health, heavy metal/metalloid sustainable mining, remediation of land and groundwater aguifers, and other sciences.

### **Guest Editors**

Dr. Ifigeneia Megremi Faculty of Geology and Geoenviromment, University of Athens, Panepistimiopolis, 15784 Athens, Greece

#### Prof. Dr. Maria Economou-Eliopoulos

Faculty of Geology and Geoenvironment, University of Athens, Panepistimiopolis, 15784 Athens, Greece

### Deadline for manuscript submissions

closed (31 August 2022)



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Minerals Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 minerals@mdpi.com

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## About the Journal

### Message from the Editor-in-Chief

*Minerals* welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

### Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).