

Special Issue

Clays, Zeolites and Engineered Mineral Materials for Wastewater Treatment

Message from the Guest Editors

The environment that surrounds us is becoming, daily, more and more burdened by the emission of harmful substances due to rapid industrialization and globalization. These harmful substances are primarily heavy metals that reach the environment through discharge in wastewaters. Most of them are highly soluble in water and show toxic and carcinogenic impact on all living beings, and it is therefore very important to reduce or, where it is possible, entirely remove heavy metals from contaminated wastewater prior to its discharge into the environment. Sorption is one of the most selected treatment options. It represents a highly effective physicochemical process for removing heavy metals from wastewater, especially at low initial metal concentrations, using various sorbents. This Special Issue aims to provide a venue to present new findings on the possible application of clays, zeolites, and engineered mineral materials for wastewater treatment, with the focus on heavy metal removal. The hope is that this Special Issue will contribute to a better understanding of the sorption process, as well as possible materials that could be used as effective sorbent materials.

Guest Editors

Dr. Mario Nikola Mužek

Department of Inorganic Technology, Faculty of Chemistry and Technology, University of Split, Ruđera Boškovića 35, 21000 Split, Croatia

Prof. Dr. Sandra Svilović

Department of Chemical Engineering, Faculty of Chemistry and Technology, University of Split, Ruđera Boškovića 35, 21000 Split, Croatia

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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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