Special Issue

Innovations in Nanotechnology for Wastewater and Acid Mine Drainage Treatment

Message from the Guest Editors

The evolution of anthropogenic activities has been coupled with a substantial increase in the diversity and amount of pollutants released into the environment. Among these are emerging pollutants, mostly organic compounds, which derive from the excretion of pharmaceutical wastes, industrial effluents, and municipal discharge. Some forms of pollution have also evolved, including the proliferation of acid mine drainage from oxidation or weathering of obsolete and unmanaged excavations around the world. Our water resources have been particularly affected as the conventional water treatment systems become quickly overwhelmed by some of these pollutants, which are ubiquitous and resistant to existing treatment processes. This poses a serious risk to the health of humans and the ecosystem. Innovative approaches to curb the negative impact of such pollutants are therefore required...Contributions to this Special Issue must therefore address topics related to innovative techniques for the development, characterization, and application of nanomaterials for the removal of organic and inorganic pollutants from polluted water.

Guest Editors

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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.

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