Special Issue

Geochemical Characteristics and Contamination Risk Assessment of Soil

Message from the Guest Editors

Soil, as a key component of the four circles interconnecting atmosphere, hydrosphere, biosphere and lithosphere, plays a vital role in sustaining human life and the terrestrial system globally. Meanwhile, the soil contamination of toxic trace metals is becoming increasingly serious in many countries around the world, along with urbanization and industrialization, of which pose a severe hazard to ecosystems and human health. The increased content of trace metals can adversely affect the biological properties of soil, cause changes in the food chain, have a toxic effect on plants, and can contaminate groundwater. This Special Issue invites research papers on the various aspects of soil pollution to understand the relationships between soil and the surrounding environment. The combination of different analytical modelling techniques and pollution indices provides a more reliable approach for comprehensively determining toxic elements, their pathways, and their spatial distributions. The results on this topic from a global perspective are of interest to this Special Issue, as well as legal and regulatory challenges.

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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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