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Environmental Aspects of Particle Size Distribution and Mineralogical Composition of Soil and Sediment

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Message from the Guest Editors

Environmental studies of heterogeneous systems as soils and sediments require numerous analyses to be performed in order to quantify/qualify contaminant fluxes and to describe their behavior. Sediments are often considered as the largest sink and/or source of potentially toxic elements in aquatic systems, and their importance for environmental health is widely recognized. The fate of potentially toxic substances in sediments and their bioavailability is closely related to sediment properties and physicochemical conditions of the sedimentary environment. The behavior of contaminants in soil is no less important for the soils provide numerous ecosystem services…In this Special Issue, we would like to focus on the study of the particle size distribution and mineral composition of soils and sediments related to different environmental concerns: geochemical behavior of potentially toxic elements and emerging contaminants in soils and sediments, new practices which limit the mobility of contaminants and rehabilitate polluted land, and sediment fingerprinting in river systems are all important factors in tracing the source of the sediments and contaminants.

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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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