Special Issue

Environmental Geochemistry: Earth Surface Processes and Measurement Uncertainty

Message from the Guest Editors

In this Special Issue, we would like to focus on the geochemical behavior of potentially harmful elements in different environments and the quantification of measurement uncertainty. The surface environment, closest to man, has dominant importance. The mobility and speciation of chemical elements is central to many of the feedbacks that connect geochemical, biological, and geological processes at Earth’s surface. Redistribution of chemical elements in the surface environment results in lower concentrations and therefore demands sophisticated measurement methodologies for quantification. The estimation of the true values of analyte concentration plays a significant role. Within this frame we welcome contributions that focus on the components of elemental mobility and speciation as well as methodologies for studying such phenomena in field, laboratory and modelling studies and across spatial scales. We are interested in research addressing the assessment of reactivity, bioaccessibility and biological availability of contaminants as well as the remediation of contaminated land with reference to measurement uncertainty, a horizontal theme that applies in all research topics.

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