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Behaviour of Volatiles and Fluid-Mobile Elements in Subduction Zones

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Deadline for manuscript submissions:
closed (18 June 2021)

Message from the Guest Editors

This Special Issue aims to attract studies of the path of volatiles and fluid-mobile elements from the Earth's surface reservoirs to the upper mantle or back to the surface. We invite natural, experimental, and theoretical studies from geochemists, petrologists, mineralogists, and geophysicists to cover this topic from different perspectives. Potential topics to be addressed are as follows:

(1) transport mechanisms of volatiles and FME in subduction zone settings; (2) incorporation mechanisms of volatiles and FME in nominally anhydrous minerals (NAMs) and their effect on mineral properties and mantle rheology; (3) high-pressure and temperature studies of volatile-bearing phases; (4) volatile and FME abundances in exhumed high- and ultrahigh-pressure metamorphic rocks and their implication for subduction-related volatile recycling; (5) redox effects of (de)volatilization reactions in subducting slab and overlying mantle wedge.

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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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