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Olivine and Its High-Pressure Polymorphs, with Applications in Earth Sciences

Guest Editor:

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Deadline for manuscript submissions:
closed (29 February 2020)

Message from the Guest Editor

Dear Colleagues,

Olivine and its high-pressure polymorphs dominate the Earth's upper mantle and mantle transition zone. Their physical and chemical features and geological behaviors account for the major seismic velocity discontinuities in the region, control the magmatic process of the mantle, and set important constraints on the crustal-level evolution of the mantle-derived magmas.

This Special Issue will focus on recent progress on the pysical and chemical properties of olivine and its high-pressure polymorphs, with emphasis on the geolocal applications. Studies in the broad fields of phase transition, phase equilibrium, element partition, crystal chemistry, elastic behavior, rheological measurement, vibrational feature, transportation property, etc., are most welcomed. Contributions of high-pressure experimental investigation, theoretical work, and field study are all encouraged.

The aim of this Special Issue is to bring together researchers from different disciplines to push forward our understandings of the mantle structure, its magmatic process, and its geodynamic evolution.

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Message from the Editor-in-Chief

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