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Minerals Down to the Nanoscale: A Glimpse at Ore-Forming Processes

Guest Editors:

Dr. Cristiana L. Ciobanu

Assoc. Prof. Dr. Satoshi Utsunomiya

Prof. Dr. Martin Reich

Assist. Prof. Dr. Oliver Plümper

Deadline for manuscript submissions:
closed (31 May 2019)

Message from the Guest Editors

Dear Colleagues,

Many new insights have been obtained owing to the expanding development of analytical capability at the nanoscale, including transmission electron microscopy, nanoSIMS, microbeam X-ray absorption spectrometry, and atom probe. In-situ slicing, 3D-tomography, or electron backscatter diffraction on focused-ion-beam-platforms allows unparalleled opportunities to bridge scales of observation on sites of petrogenetic interest. This session invites analytical and experimental studies demonstrating that physicochemical properties observable at the nanoscale represent important clues to elucidate the character and timing of geological processes, including but not limited to magmatic and hydrothermal ore genesis and associated alteration.

The special issue will include papers presented in the session of the same name at Goldschmidt-2018 in Boston (session 06b) but submission is encouraged to all authors wishing to publish new research demonstrating a nanoscale approach to ore-forming processes and similar topics.

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Editor-in-Chief

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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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