Special Issue

Mineral-Organic Interactions Related to Oil Sands Processing

Message from the Guest Editor

The importance of mineral–organic interactions in oil sands processing has been discussed for several decades. Whether residual organics adhering to mineral particle surfaces arise from the presence of humic matter originally present in the sedimentary rock before oil migration or result from interaction of bitumen components (mostly asphaltenes and resins) with mineral surfaces, particularly clays, has been intensively debated...we wish to attract contributions at the confluent of the emerging analytical techniques allowing deeper molecular-scale direct probing or rational inference of the effects of mineral–organic interactions in macroscopic oil sands processing technologies employed for bitumen extraction, processing, and upgrading. We would like to produce a well balanced isue and therefore would like to invite authors to contribute both experimental and theoretical/computational studies dealing with fundamental and/or applied aspects that will help to further our understanding of the aforementioned questions as they pertain to oil sands processing.

Guest Editor

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Deadline for manuscript submissions

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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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