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Environmental Geochemistry in the Mining Environment

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Deadline for manuscript submissions:
closed (26 November 2021)

Message from the Guest Editors

Despite several developments over the past decades, the mineral extraction sector is facing new challenges associated with environmental (bio)geochemistry in the mining environment, from the prediction of water quality as early as possible in the life cycle of a mine all the way through mine site reclamation/closure, water treatment, and long-term monitoring. More recent challenges include mitigating impacts associated with emerging contaminants in the mining environment (e.g., Se, Mn, rare earth elements, thiosalts, NH_4, NO_3, salinity), the effects of climate change on mine reclamation and water treatment, and mining in the Arctic, just to name a few. This Special Issue invites papers focusing on innovative approaches and new perspectives with practical applications related to the environmental geochemistry in the mining environment, including but not limited to (bio)geochemical aspects of mine site reclamation, water quality prediction, effects of Arctic conditions on the (bio)geochemistry of mine wastes and mine water, active and passive mine water treatment, emerging contaminants in mine water, geochemical modelling, and microbial geochemistry of mining wastes.

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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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