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Acid Mine Drainage Recovery

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2019)

Message from the Guest Editor

Dear Colleagues,

The major issue of mining is the amount of waste rock and tailings produced that have the potential to form acid mine drainage water upon exposure to air and water; forming an acidic wastewater with a variety of heavy metals (site specific). Minimising the environment risk and implications of mining and associated wastewaters during and after closure is of high importance due to the severity and extent of effects that contaminated lands and waterways have on ecosystems. Common active treatment technologies include neutralisation/precipitation, membrane separation, bioremediation, electrochemistry and selective sorbents, however no one technology can universally treat acid mine drainage water. Treatment processes are typically expensive and not economically sustainable, therefore the recovery of commodities from acid mine drainage waters has the potential to off-set the overall cost of treatment, which in turn will encourage mining companies to be more diligent in minimising their environmental impact. This Special Issue aims to enhance the knowledge of treatment options for acid mine drainage water, with a focus on resource recovery and upscaling.

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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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