



minerals



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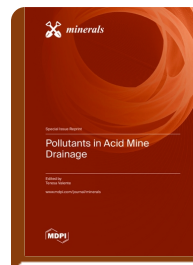
Pollutants in Acid Mine Drainage

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Acid mine drainage (AMD) is one of the major environmental concerns in mining activity that often causes the complete degradation of ecosystems during and/or after mine closure. AMD is a peculiar research focus because it involves the assessment of various pollutants' presence, reactivity, and biogeochemical behaviors. Also, the properties of these polluted mine waters restrict monitoring plans and the environmental remediation approaches.

This reprint includes a wide range of topics, such as the source and nature of pollutants and the speciation, mobilization/precipitation, and toxicity of trace elements. The modeling of processes, innovative techniques for removing hazardous elements, and advanced monitoring techniques are also included, with the aim of increasing the base knowledge about pollutants in AMD. Therefore, the reprint presents the latest advancements in the (bio)geochemistry and mineralogy of AMD and of wastes from which AMD develops. The reprint contains 19 studies that provide examples of methodological approaches, as well as tools and solutions for the monitoring, treatment, and remediation of AMD systems.



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