Special Issue

Mine Water Quality: Risks, Challenges, and Opportunities

Message from the Guest Editors

This Special Issue welcomes research focused on understanding geochemical transformations and engineering approaches aimed at improving the control and effectiveness of mine effluent management systems, developing innovative techniques for treating mining contaminated waters, utilizing novel materials as cost-effective reagents, and exploring emerging methods for concentrating or enriching critical minerals (CMs). We seek submissions to this Special Issue that address one or more of the following topics: (1) the quality control of ecosystems affected by mine contamination; (2) the monitoring, control, and improvement of mining effluents; (3) studies on mine drainage treatment systems; (4) the reuse of raw materials for the remediation of environments impacted by mining; (5) geochemical studies on products and waste derived from mine processing plants; (6) hydrochemical models explaining fluid–rock interactions in mining environments; (7) studies on metal fractionation from AMD to solid phases; (8) and new opportunities for mining wastes (solids) or AMD precipitates (AMDps) to serve as a potential source of critical elements.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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