Special Issue

Solvent Extraction in Hydrometallurgy

Message from the Guest Editor

To meet the challenges of dwindling resources and the growth of needs, as well as in a perspective of a secure supply approach of high-tech metals, three options are considered based on the extraction of metals from primary and secondary resources (new deposits, mining and industrial wastes). Whatever the resource, metal extraction and purification is performed mainly by pyrometallurgy or hydrometallurgy that can sometimes coexist within one. The first type is the one that industry provides most of the elements as metal. However, this requires a large amount of energy and causes corrosion issues associated with high temperature operations in molten salts. The second process is the only one that currently allows efficient separation of metal targets, especially those contained in low grade polymetallic matrices. [...] This Special Issue aims to address research devoted to exploring the potentialities of solvent extraction to efficiently and selectively recover and purify metal targets from ores. Articles focusing on non-conventional separation techniques (ionic liquids, supercritical fluids...) are welcome here.

Guest Editor

Dr. Stéphane Pellet-Rostaing

Institut de Chimie Séparative de marcoule (ICSM), UMR CNRS, CEA, ENSCM, University of Montpellier, site de Marcoule, Bat 426, 30207 Bagnols sur Cèze, France

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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