Special Issue

Flotation of Cu-Zn Sulfide Ores

Message from the Guest Editors

Base metals are the most imporant raw materials used for production advanced technology materials in the industry of electronics, aerospace, automative and energy. Hence, the demand for the base metals has increased substantially in the last decade. Recycling of waste metals could supply a certain percentage of the demand but it is not sufficent to satisfy the increasing consumtion. Therefore, new resources are greatly required, which brings about treatment of low grade, complex sulfide ore deposits in the world.

The Cu-Zn flotation process could be a simple differential flotation process using lime as the only modifier/depressant or a complex process including use of various depressants and specific collectors to achieve an acceptable Cu/Zn selectivity. This Special Issue aims to contribue understanding effects of ore genesis, mineralogy, surface chemistry and flotation chemistry on the flotation of Cu-Zn sulfide ores. Fundemantal and applied research studies that address the challenges associated with flotation of Cu-Zn sulfide ores and new approches to solve the problems are highly recommended.

Guest Editors

Prof. Dr. Zafir Ekmekçi

Hacettepe University Mining Engineering Department, Beytepe, Ankara 06800, Turkey

Dr. Özlem Bıçak

Hacettepe University Mining Engineering Department, Beytepe, Ankara 06800, Turkey

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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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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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