Special Issue

Grinding Modeling and Energy Efficiency in Ore/Raw Material Beneficiation

Message from the Guest Editors

The grinding process, as a primary stage of ore/raw material processing, is a necessary operation in beneficiation plants. It not only provides the appropriate particle size for subsequent separation operations but also enables the liberation of valuable minerals from the gangue. In addition, due to the depletion of high-grade ores and the growing needs of the industry for the processing of low-grade finely dispersed ores, the development of fine/ultrafine milling processes has attracted particular attention in recent decades. This Special Issue welcomes papers that highlight innovations and future trends in modeling grinding and technological ways to improve the grinding efficiency in ore/raw material beneficiation. Emphasis is placed on all issues that contribute to the improvement of process and energy efficiency and reduce the environmental footprint of ore beneficiation and processing plants.

Guest Editors

Dr. Evangelos Petrakis

School of Mineral Resources Engineering, Technical University of Crete, 73100 Chania, Greece

Prof. Dr. Konstantinos Komnitsas

School of Mineral Resources Engineering, Technical University of Crete, 73100 Chania, Greece

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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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