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Gravity Concentration

Guest Editors:

Prof. Dr. Carlos Hoffmann Sampaio
Departament d'Enginyeria Minera, Industrial i TIC (EMIT), Escola Politècnica Superior d'Enginyeria de Manresa (EPSEM), Universitat Politècnica de Catalunya (UPC), Av. Bases de Manresa 61–63, 08242 Manresa, Spain

Prof. Dr. Weslei Monteiro Ambros
Mineral Processing Laboratory, Federal University of Rio Grande do Sul, 9500 Bento Gonçalves Avenue, Porto Alegre 91501-970, Brazil

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Message from the Guest Editors

Many of the resources that man extracts from nature are of mineral origin. However, rarely are these nonrenewable resources in a position to be used directly. Thus, the minerals need to undergo some beneficiation. The choice of the concentration process to be used in a mineral depends on the physical and chemical characteristics of the constituents to be separated. Gravity ... The size that can be processed ranges from very coarse materials, coarser than 100 mm, concentrated through heavy media vessels or ROM jigs, to very fine particles, about 10 microns, concentrated through centrifugal processes. This Special Edition aims to bring together scientific articles in all areas of gravity concentration. From fundamental stratification theory to circuits plant operations, through concentration equipment, control, simulation, and optimization of gravity concentrators.

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Editor-in-Chief

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

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.

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Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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