Special Issue

Industrial Minerals

Message from the Guest Editor

Industrial minerals include minerals and rocks that, depending on their physical and chemical properties, are used, directly or with treatment, in the manufacturing of products, such as ceramics, glass, cement, biomaterials, geopolymers, and even in the recycling of wastes. These can become raw materials in some industrial process and reduce the extraction of other materials and, therefore, contribute to the so-called environmental ecology. Given the large volume of materials used, it is necessary to know from where they can be exploited, their mineralogy and properties, in order to determine the most suitable application in each case. The thermodynamic behavior of industrial minerals is critically important at the time of being processed since it entails important economic repercussions. Well-controlled mineral dynamics (changes in compositions of phases, textures, etc.) during industrial processing is necessary to optimize the product. Moreover, in the case of reused wastes, an exhaustive control of the neoformed minerals and the position in the structure of the toxic elements must be controlled to ensure their stability.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2020)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/16649

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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.

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JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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