

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

Dr. Maite Garcia-Valles

Department of Mineralogy, Petrology and Applied Geology, University of Barcelona, 08028 Barcelona, Spain

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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,
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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).