Special Issue

Clay and Clay-Based Materials for Energy Storage Systems

Message from the Guest Editors

The main purpose of this Special Issue is to give an overview of the current trends in clays and clay-based materials for energy storage and energy conversion that allow the development of more efficient products. This Special Issue is devoted to recent advances including:

- Clay modification methods applied to energy store systems;
- Clay-based composites in rechargeable batteries: anodes, cathodes, and separators;
- Clays and clay-based materials in solid state electrolytes;
- Clays and clay-based materials for supercapacitors;
- Clays and clay-based materials for solar cells;
- Clays and clay-based materials for fuel cells;
- Phase change material (PCM)/clay composites for thermal energy storage.

Relevant contributions related to the design of prospective materials, the properties of original materials, and innovative characterization techniques will also be considered.

Guest Editors

Dr. Esperanza Pavón

Seville Materials Science Institute & Dpto. Physics of Condensated Matter, University of Seville, 41012 Seville, Spain

Dr. Jose-Maria Delgado-Sanchez

Department of Applied Physics, University of Seville, 41012 Seville, Spain

Deadline for manuscript submissions

closed (19 December 2021)

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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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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).

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