

Matériaux & Techniques

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Call for papers

Themed Issue on:

'Synthesis, Characterization and Applications of Materials in Energy Storage and Conversion'

Guest Editors

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Background

The demand for sustainable and clean energy sources has driven the development of energy storage and conversion technologies, such as batteries, supercapacitors, fuel cells, and solar cells. Advanced materials with tailored properties are critical for achieving high-performance devices. Synthesis, characterization, and application of materials are crucial for optimizing their performance. This special volume aims to cover recent advancements in materials synthesis, characterization, and applications in energy storage and conversion, with topics including materials design, emerging materials, renewable energy systems, and environmental aspects.

Aims and Scope of the Themed Issue

This special volume welcomes original research articles, reviews, and perspectives that contribute to advancing the state-of-the-art in the synthesis, characterization, and applications of materials in energy storage and conversion. The volume aims to foster interdisciplinary discussions and collaborations among researchers, engineers, and stakeholders from academia, industry, and government sectors, and promote the development of sustainable and efficient energy storage and conversion technologies. The scope of this special volume includes, but is not limited to:

- Novel synthesis methods for advanced materials.
- Characterization techniques for evaluating the properties of energy storage and conversion materials
- Materials design and engineering for improved performance in energy storage and conversion devices
- Electrochemical, structural, and morphological properties of materials for energy storage and conversion
- Emerging materials, such as nanomaterials, composites, and hybrid materials, for energy storage and conversion
- Applications of materials in energy storage and conversion for transportation, electronics, and grid integration
- Materials for energy storage and conversion in renewable energy systems, including solar, wind, and hydropower
- Environmental and sustainability aspects of materials in energy storage and conversion
- Technological advancements, challenges, and future prospects in the field of materials for energy storage and conversion.

The articles will be based on the communications presented during the [international conference on Advanced Materials for Photonics, Sensing and Energy Conversion Energy Applications \(5th AMPSECA'2023\)](#) organized in Marrakech from May 25 to 26, 2023.

Submissions

All relevant papers can be submitted either in English or in French (in this last case, the title and abstract must also be provided in English). They will be carefully considered by a distinguished team of international experts, and published in accordance to the Journal's standard policies. Full research papers and review articles can be submitted online via the journal's submission and peer review site. Please register choosing the title of the special issue '*Synthesis, Characterization and Applications of Materials in Energy Storage and Conversion*'.

Please find the instructions for authors at: <https://www.mattech-journal.org/author-information/instructions-for-authors>

Submission deadline – July 31st 2023

Article submission and editorial system [here](#).

Charges

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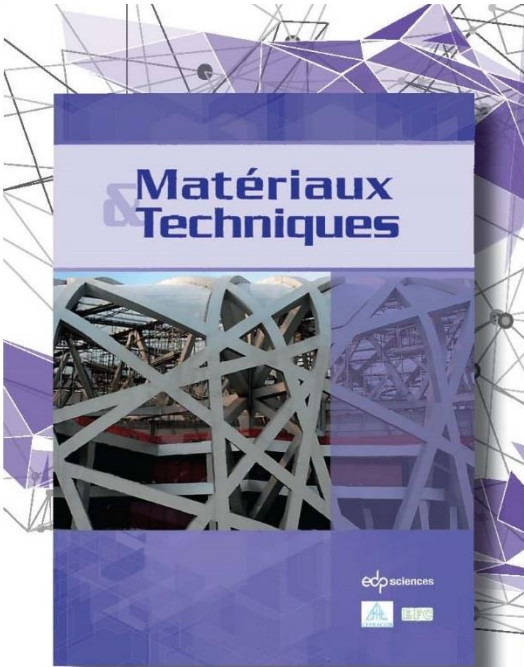
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Matériaux & Techniques

Journal of industrial materials,
their implementation techniques and use

Over more than a century, *Matériaux & Techniques* has accompanied the evolution of the science & technology of materials.

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