

## Special Issue

# Microwave-Assisted Materials Design for Energy Storage and Conversion

### Message from the Guest Editor

The rapid development of sustainable energy technologies requires advanced *materials* with enhanced performance, scalability, and cost-effectiveness. *Microwave*-assisted synthesis and processing have emerged as powerful tools to accelerate *materials* innovation and optimization, offering unique advantages such as rapid heating, selective energy transfer, and improved structural control. This *Special Issue* invites high-quality contributions focusing on the design, production, and performance of *microwave*-assisted *materials* for applications in energy storage and conversion. Topics of *interest* include, but are not limited to, electrode and electrolyte development for batteries and supercapacitors, catalysts for fuel cells and electrolysis, as well as theoretical and computational studies that elucidate *microwave*–material interactions. We welcome original research articles, comprehensive reviews, and perspectives that advance this promising field.

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### Guest Editor

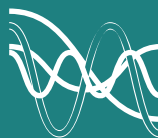
Dr. Ana Arenillas

CSIC - Instituto Nacional del Carbón (INCAR), Oviedo, Spain

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### Deadline for manuscript submissions

20 June 2026



## Microwave

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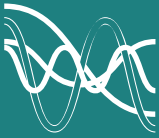


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*Microwave*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[microwave@mdpi.com](mailto:microwave@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

Prof. Dr. Changjun Liu

School of Electronics and Information Engineering, Sichuan University,  
Chengdu 610064, China

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APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.