

## Special Issue

# Microwave-Assisted Synthesis: Accelerating Innovation in Advanced Materials Development

### Message from the Guest Editors

Microwave-assisted synthesis has transformed the field of materials science, providing swift and energy-efficient techniques for the development of advanced materials with meticulous structural precision. This Special Issue is dedicated to the most recent advancements, techniques, and uses of microwave-assisted synthesis in the creation of materials for a variety of applications, such as energy storage, catalysis, environmental clean-up, electronics, and medical devices. Concentrating on this cutting-edge approach, we seek to compile research that illustrates the way that microwave-assisted techniques are expanding the limits of material design, scalability, and functionality. We welcome submissions on a variety of topics, including, but not limited to, the following:

- Nanostructured materials;
- Sustainable and green synthesis;
- Energy storage materials;
- Catalytic applications;
- Biomedical applications;
- Electronic and optical materials;

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 July 2025)



## Materials

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## About the Journal

### Message from the Editorial Board

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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