

JOM Call for papers

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Manuscript Deadline: *June 1, 2025*

Multiscale Characterization Methods for Design and Synthesis of Functional Materials

This topic emphasizes advances in the development and applications of macro-, micro-, and nano-scale experimental and computational characterization methods toward the design and synthesis of functional materials which make use of their natural or engineered functionalities to respond to changes in electrical and magnetic fields, the physical and chemical environment, etc. Particular applications of interest include ferroelectric, multiferroic, ferromagnetic, magneto-optical, optoelectric, thermoelectric, electromagnetic shielding, thermal insulation, energy conversion and energy storage, sustainable energy, shape memory, and biomedical materials, etc.

Original research papers should be 3,000-9,000 words with up to 12 figures maximum; review papers should be 6,000-11,000 words with up to 20 figures maximum.

Detailed author instructions are available at:
<http://www.tms.org/AuthorTools/>

Keywords for this topic: *Advanced Materials; Characterization; Computational Materials Science & Engineering; Experimental Methods; Synthesis and Processing*

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Committee Sponsor(s): *Materials Characterization*

If you are interested in submitting a paper, upload your manuscript at
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Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.

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