



Special Issue

Material Simulation, Preparation and Evaluation

Call for Papers

Material Simulation, Preparation and Evaluation constitutes a closed-loop research paradigm that integrates computational prediction, experimental synthesis, and comprehensive performance assessment to accelerate the discovery, design, and development of advanced materials. This interdisciplinary field moves beyond traditional trial-and-error approaches by establishing a systematic framework where simulation guides preparation, preparation generates materials for evaluation, and evaluation data feeds back into simulation models for validation and refinement. The goal of this special issue is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in the area of **Material Simulation, Preparation and Evaluation**.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **Material Simulation, Preparation and Evaluation**. In this special issue, potential topics include, but are not limited to:

- Multi-scale and Multi-physics Modeling
- Integrated Computational Materials Engineering
- Machine Learning and Data-Driven Approaches
- Computational Thermodynamics and Kinetics
- Advanced Synthesis and Processing
- Processing-Microstructure Control
- Advanced Characterization Techniques
- Mechanical and Physical Property Testing
- In Situ and Operando Characterization
- Materials Database Construction
- Data Science & Materials Informatics

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue – Material Simulation, Preparation and Evaluation**” should be selected during your submission.

Special Issue timetable:



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