

## Frontiers in Materials Science

This is a special issue in **Journal of Electronic Materials**, called and published in conjunction with the “7<sup>th</sup> International Symposium on Frontiers in Materials Science”, organized in National Yang Ming Chiao Tung University, Hsinchu, Taiwan, January 21<sup>st</sup>-24<sup>th</sup>, 2024.

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### Special issue information

Materials science is an interdisciplinary field of science, integrating knowledge and approaches from physics, chemistry, engineering, and more, aiming at studying, optimizing, discovering, and designing functional and sustainable materials used in every corner of human life. The core functionalities of our computers, cars, and phones, etc., are made possible by the semiconducting materials needed for the powerful chips, mechanically strong and fire-resistant composites needed for the body, advanced materials needed for high-energy density batteries, and more. Research and innovations in materials science have been highly active in multiple scales with frontiers continuously pushed forward --- the emerging paradigm of AI-based materials informatics is an example of new driving forces that are introduced in the field.

The special issue “**Frontiers in Materials Science**” welcomes high-quality submissions from colleagues, addressing the areas in the alignment with the mission of the symposium series and the **Journal of Electronic Materials**. The following topics are anticipated

1. Materials for green energy and environment
2. Multiferroics and magnetic materials
3. Photonics and nanostructured hybrid materials
4. Spintronic & topological materials
5. THz materials and devices
6. Two-dimensional materials and related applications
7. Theoretical and computational (physics-driven) materials science

8. Materials informatics (data-driven) approaches in materials science

Colleagues who wish to contribute to the special issue, please refer to the submission information given below

**Manuscript submission information**

The submission link is <http://www.editorialmanager.com/jems/default.aspx>, where manuscripts can be submitted to and will be reviewed by at least two independent experts in the field. To ensure your manuscript(s) to be considered for the “Frontiers in Materials Science” issue, please specify the article type of “Frontiers in Materials Science 2024” when preparing your submission. Author instructions can be found at <https://link.springer.com/journal/11664> while questions or inquiries should be addressed to Huan Tran at [huan.tran@mse.gatech.edu](mailto:huan.tran@mse.gatech.edu).

**Submission Deadline: May 31, 2024**