

Special Issue

Metal Oxide Semiconductors for Electronic Applications

Message from the Guest Editors

New era concepts of Internet of things (IoT) and smart surfaces are now demanding transparent, flexible, and nanoscale devices and materials. In this regard, metal oxides have emerged as key materials, since they present good reproducibility, large-area uniformity, and lower fabrication temperatures and costs.

This Special Issue aims to collect original papers and/or review articles focused on the fabrication of metal oxide semiconductors, in both the form of thin films or nanostructures, and their application in electronics. Relevant topics may include (but are not limited to):

- Metal oxide semiconductors characterization and fabrication;
- Sustainable materials and processes;
- Advances in the integration of metal oxide semiconductor nanostructures;
- Transparent and flexible electronics;
- Electronic devices such as field effect transistors, memristors, sensors, nanogenerators, and photodetectors;
- Application of metal oxide semiconductors to electronic circuits or systems;
- Devices' modelling and simulation.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2025)



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About the Journal

Message from the Editor-in-Chief

I am delighted to introduce the new online open access journal *Electronic Materials* (ISSN 2673-3978). The aim of *Electronic Materials* is to publish high-quality and high-impact research papers, as well as review articles addressing recent advances in fundamental science, engineering, and practical applications of electronic materials. The interdisciplinary topics of the journal include materials science, device engineering, and the physics of electronic and magnetic properties. *Electronic Materials* also welcomes Special Issue proposals from academics and industrial researchers from all related fields. We encourage scientists and engineers worldwide to publish their innovative ideas and cutting-edge developments and technologies in the field of electronic materials. The journal is now open for submission and the Editorial Team welcomes your manuscripts for publication.

Editor-in-Chief

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