

Special Issue

Recent Developments in Synthetic Metals

Message from the Guest Editor

The issue covers the development of synthetic metals, including their design, synthesis, properties, optimization, and applications in electronic devices. Of particular interest are papers that focus on condensed matter physics, organic electronics, photonic materials and devices, conducting polymers, metals and alloys, materials in electronics, semiconductor nanostructures, low-dimensional materials, optical and magnetic materials, and material chemistry. The aims of this SI are to highlight the most recent advances in basic chemical and physical phenomena related to material design and to stimulate ideas for new or improved processing techniques, in order to obtain materials with desired structural features and properties.

Papers suitable for publication in this issue cover such topics as the photoconductive and electronic properties of organic and hybrid organic–inorganic semiconductors, thin-film structures and their characterization in the context of material processing, charge and exciton transport, and electronic and optoelectronic devices. This Special Issue also welcomes review articles within the scope of the journal.

Guest Editor

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).