Special Issue

Metal-Based Microwave Absorbing Materials

Message from the Guest Editors

It is well known that the key factors determining the microwave dissipation performance of absorbing materials are their dielectric or magnetic loss capability. Over the years, many microwave-absorbing materials with various compositions have been prepared. Among them, metal-based materials, including magnetic metals, alloys, metal oxide/sulfide/phosphate, etc., are the most widely studied due to their excellent synergistic effect of dielectric/magnetic loss. This Special Issue, titled “Metal-Based Microwave-Absorbing Materials”, will present advanced and innovative metal-based absorbers, covering the diversity and development trends of modern absorbing materials. The submitted papers should propose the attenuation mechanisms, merits and potential applications of metal-based materials. We look forward to publishing relevant and original high-quality research papers, and potential topical areas include, but are not limited to:

- Carbon/metal composites;
- Polymer/metal composites;
- Ceramic/metal composites;
- Metal–organic frameworks;
- Alloy compounds;
- Metal oxide/sulfide/phosphate composites;
- Metal-based materials with distinct microstructures.

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About the Journal

Message from the Editor-in-Chief

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.

Editor-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).

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