



metals



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Metallic Functional Materials: Development and Applications

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Message from the Guest Editors

Metallic functional materials refer to metallic materials with special physical, chemical, or biological properties that are used for non-structural purposes. They include shape memory alloys, metallic magnetic materials, amorphous alloys, energy materials, biological materials, THz metamaterials, and nanometal materials. In recent decades, more and more metallic functional materials and their functional properties have been explored. Meanwhile, to satisfy the progressive requirements in the field of aerospace, aeronautical, automotive, electronic, and bio-medical applications, more efficient material designs and developments are necessary. The current Special Issue of Metals focuses on the latest developments of metallic functional materials, including new functional properties and applications, efficient design methods (high-throughput multiscale materials computing and machine learning), novel synthesis and processing methods (additive manufacturing), and advanced technologies in material characterizations (interactions with radiation, and diffraction and scattering techniques).

We invite submissions of manuscripts to this Special Issue that address the listed topics.



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Special Issue



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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.

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