Special Issue

Computational Modeling and Simulation in Metallic Materials Genome Engineering

Message from the Guest Editor

Computational materials science has become an important and necessary tool in the study of metallic materials. This research technique is applied through the whole process of material discovery, preparation and application. With the introduction and development of material genome engineering, high-throughput computation and multi-scale modeling are regarded as one of the three elements besides high-throughput experiments and databases. In this Special Issue, we welcome articles that focus on the development of high-throughput algorithms and construction of cross-scale modeling for metal materials, the typical application cases to solve the critical issues in metal material research. Machine learning coupled with computational materials science is of especial interest.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2023)

Metals

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 5.3

mdpi.com/si/97144

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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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