Special Issue

Radiation Effects in Metals

Message from the Guest Editor

High-energy radiation involving neutrons, ions, and electromagnetic waves can alter the microstructure and properties of metallic materials in a variety of ways. We invite papers reporting significant original research, as well as reviews on radiation effects in metals alloys and metallic multilayers, including experiments using both ion beam and neutron irradiation as also radiation by X-rays and lasers. The subjects of interest for this Special Issue include, but are not limited to:

- Effects of radiation on (a) microstructure, (b) mechanical properties of metallic materials
- Methods of characterizing radiation effects, including transmission and scanning electron microscopy, SANS, synchrotron radiation, X-ray diffraction, etc.
- Theoretical calculations and simulations of radiation effects on materials, including molecular dynamics, ab initio, Monte Carlo, finite elements, etc.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2018)

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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.

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Rapid Publication:

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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