



Radiation Effects in Metals

Guest Editor:

Dr. Dhriti Bhattacharyya

Senior Scientist, Institute of
Materials Engineering, Australian
Nuclear Science and Technology
Organization, New Illawarra
Road, Lucas Heights, NSW, 2234,
Australia

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Dhriti Bhattacharyya

Guest Editor





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and Engineering, College of
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University of Wisconsin-
Milwaukee, 3200 N. Cramer
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Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

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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Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
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