



Mechanical, Optical and Electronic Properties of Metallic Thin Films: Experimental and Computational Studies

Guest Editor:

Dr. Shahram Solaymani

Quantum Technologies Research Center (QTRC), Science and Research Branch, Islamic Azad University, Tehran 1477893855, Iran

Deadline for manuscript submissions:

closed (31 August 2023)

Message from the Guest Editor

Dear Colleagues,

Full access to the technological applications of the electronic materials will be achieved if the structure and properties of these materials are changed in nanoscale dimensions. The importance and correct inference of the relationship between structure and property is a fundamental element in the research advancement of mechanical, optical, and electronic materials for wide range of sensors, microelectromechanical, and solar cells applications. Critically, microstructure, surface/interface behavior, mechanical defect, and their changes need to be deeply understood for detailed examination of their applications, especially for new opto-electro devices.

This Special Issue includes experimental techniques, methods, and computational of mechanical, optical, and electronic properties of metallic thin films.

Researchers who are interested in thin films, carbon films, alloys, metal-based nanocomposites, and capacitors are invited to submit articles for publication.

Dr. Shahram Solaymani

Guest Editor





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/Metals_MDPI)