materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

an Open Access Journal by MDPI

Metallic Multilayers: Structures, Growth and Properties

Guest Editors:

Dr. Michael Stüber
Karlsruhe Institute of Technology, Institute for Applied Materials (IAM-AWP), Campus North, Eggenstein-Leopoldshafen, Germany

Dr. Karsten Woll
Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Eggenstein-Leopoldshafen, Germany

Deadline for manuscript submissions:
closed (10 July 2022)

Message from the Guest Editors

This Special Issue aims to provide a state-of-the-art survey of the latest developments in the field of metallic multilayers that are comprised of metallic elements, multicomponent complex alloys, high-entropy alloys, shape memory alloys, or Heusler alloys. All synthesis methods for designing nano- and micro-scale multilayer films are considered. The scientific scope of the Special Issue encompasses the following topics:

1. Correlation between microstructure and properties. Multilayers with specific mechanical, tribological, caloric, optical, electronic, biological, biomedical, or other functional properties are the focus. Studies exploring effects of the multilayer synthesis are welcome, as are those elucidating the influence of the multilayer structure.
2. Transformational behavior is crucial and advanced approaches for its characterization, such as thermal analysis in combination with structural characterization, are considered.
3. The multilayer performance on system level.
4. Reports on the latest experimental observations and computational and simulation approaches are desired, as well as regular scientific contributions and review articles in the field.

materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi