



Advanced Manufacturing of Novel Metallic Related Materials

Guest Editors:

Prof. Dr. Victor A. Klinkov

Department of Chemistry, Peter the Great St. Petersburg Polytechnic University, 195251 Saint Petersburg, Russia

Dr. Vera Popovich

Department of Materials Science and Engineering, Delft University of Technology, Mekelweg 2, CD 2628 Delft, The Netherlands

Deadline for manuscript submissions:

closed (10 August 2023)

Message from the Guest Editors

Dear Colleagues,

A special highlight is dedicated to research on metallic and ceramic materials obtained by various additive manufacturing techniques, including laser powder-bed fusion, laser metal deposition, binder jetting, wire arc additive manufacturing, electron beam melting, etc. Research papers devoted to the development of feedstock materials as well as alloys and composite materials tailored for additive manufacturing processes will also be addressed.

The covered topics include, but are not limited to:

- Additive manufacturing;
- Nanostructured materials (metals, powders, composite ceramics, coatings);
- Advanced processing of metallic materials;
- Biomaterials and new medical materials, 3D printing of biomaterials;
- Modelling of the process, physical and mechanical properties of materials;
- Digital twins of materials, structures, production technologies;
- Materials with special physical and mechanical properties;
- Processing and characterization of smart materials;
- Design of additively manufactured materials.





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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.

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Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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