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Microstructure, Mechanical and Tribological Properties of Alloys

Guest Editors:

Dr. Shuiqing Liu
School of Mechanical Engineering, Hebei University of Technology, Tianjin 300401, China

Dr. Ru Su
School of Materials Science and Engineering, Hebei University of Science and Technology, Shijiazhuang, China

Deadline for manuscript submissions:
25 December 2024

Message from the Guest Editors

The microstructure of a material is the key to its mechanical and wear properties. The goal of this Special Issue on Microstructure, Mechanical and Tribological Properties of Alloys is to bring together information on the latest advances, new technologies, and comprehensive mechanism analysis of microstructure characterization and alloys, seeking to provide guidance and reference for further research in related fields.

Topics exploring the use of zirconium for nuclear power, composites, intermetallic compounds, and functional materials will be included. Additionally, topics related to the design of advanced metals and alloys, additive/subtractive manufacturing, surface modification, material simulation and calculation, finite element modeling, machine learning, simulation, and experiments of mechanical properties characterization are also included. Full papers, short communication, and reviews are welcome.

We look forward to receiving your contributions!

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Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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coatings@mdpi.com
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