

Special Issue

Advanced Alloys for Engineering Structures: Design and Performance

Message from the Guest Editors

This special issue focuses on recent progress in advanced alloys for engineering structures, emphasizing design methodologies and performance improvements. As the demand for higher efficiency and durability in engineering applications grows, advanced alloys play a crucial role. The contributions in this issue showcase innovative alloy compositions, novel processing techniques and advanced characterization methods that enhance material properties.

Key topics may include (but not limited to): integrating computational materials science in alloy design to tailor properties for specific applications and utilizing techniques like additive manufacturing for optimum performance. Additionally, the issue reviews performance metrics under various environmental conditions, providing insights into the long-term behavior of these materials in real-world scenarios.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Bernd Kuhn

Deggendorf Institute of Technology, Technology Campus Wörth-Wiesent, 93086 Wörth a. d. Donau, Germany

Dr. Yukinori Yamamoto

Oak Ridge National Laboratory, Materials Science and Technology Division, 1 Bethel Valley Road, Oak Ridge, TN 37830, USA

Deadline for manuscript submissions

31 October 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



mdpi.com/si/276947

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)