

## Special Issue

# Nuclear Materials: Alloy Design, Processing, Microstructure, Properties, and Qualification

### Message from the Guest Editors

We are excited to announce a Special Issue of Applied Sciences dedicated to Nuclear Materials, focusing on critical advances in alloy design, processing, microstructural characterization, properties, and the qualification of structural materials for nuclear applications. This Special Issue seeks to provide a platform for the latest research that pushes the boundaries of knowledge and innovation in the field of nuclear materials. We invite submissions of original research articles, review papers, and case studies that focus on (but not limited to) the following areas:

- Alloy Design
- Processing Techniques
- Microstructure
- Material Properties
- Modeling and simulation
- Testing and Qualification
- Applications

For more information on the Special Issue, please visit  
LINK [https://www.mdpi.com/journal/applsci/special\\_issues/EUXJWQACHS](https://www.mdpi.com/journal/applsci/special_issues/EUXJWQACHS)

### Guest Editors

Dr. Rongjie Song

Idaho National Laboratory, Idaho Falls, ID 83401, USA

Dr. Andrea M. Jokisaari

Idaho National Laboratory, Idaho Falls, ID 83401, USA

Dr. Lingfeng He

Department of Nuclear Engineering, North Carolina State University, Raleigh, NC 27695, USA

### Deadline for manuscript submissions

30 January 2026



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/218950](https://www.mdpi.com/si/218950)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )