



## Artificial Intelligence in the Innovation of Materials Science and Engineering

Guest Editors:

**Prof. Dr. Yuancheng Cao**

School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

**Prof. Dr. Songfeng Lu**

School of Cyber Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

Deadline for manuscript submissions:

**closed (28 February 2022)**

### Message from the Guest Editors

Dear Colleagues,

Artificial Intelligence (AI) has received widespread attention due to its potential to increase automation and accelerate productivity over the last few decades. A large amount of training data with improved computing power and advanced deep learning algorithms are conducive to the wide application of artificial intelligence, including material research. The traditional trial-and-error method is inefficient and time-consuming to the material innovations. AI-based innovations in energy storage materials, especially machine learning, can accelerate the process by learning rules from datasets and building models to predict. This is completely different from computational chemistry. This Special Issue is focused on the application of AI in material innovation; papers need not be limited to the material design, performance prediction, and synthesis. All submissions are welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)