

Special Issue

Advanced Materials and Structures: Mechanics, Design, and Applications

Message from the Guest Editor

This Special Issue aims to publish original research articles, comprehensive reviews, and case studies that explore the full spectrum of advanced materials and structures. We welcome contributions examining mechanical properties, deformation mechanisms, fracture behaviour, manufacturing techniques, and practical applications across various industrial sectors. Research areas may include, but are not limited to, the following:

- The mechanical characterisation and performance evaluation of advanced materials;
- The multi-scale modelling and computational simulation of material behaviour;
- The deformation, damage, and fracture mechanics of composites and other advanced materials;
- Fatigue, creep, and time-dependent response under various loading conditions;
- Novel experimental techniques for material property assessment;
- Advanced manufacturing and processing methods;
- Multifunctional materials and adaptive structures;
- Lightweight design and structural optimisation;
- The sustainability and life cycle assessment of advanced materials;
- Industrial applications and case studies demonstrating performance benefits.

Guest Editor

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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

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