



Advanced Composite Materials: Microstructures and Mechanical Properties

Guest Editors:

Prof. Dr. Fei Jia

Department of Astronautical
Science and Mechanics, Harbin
Institute of Technology, Harbin
150001, China

Prof. Dr. Youjun Ning

School of Mechatronic
Engineering, Southwest
Petroleum University, Chengdu
610500, China

Dr. Haidong Liu

Key Laboratory of Testing
Technology for Manufacturing
Process, Ministry of Education,
Southwest University of Science
and Technology, Mianyang
621010, China

Deadline for manuscript
submissions:

closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

The rapid advancement of design and manufacturing technologies related to composite materials with excellent characteristics, including fiber-reinforced composites, nanocomposites, bio-composites, green/eco-composites, energy composites, and composites mimicking natural materials, etc., continues to provide increasingly extensive and important applications in a wide range of engineering fields. In particular, the use of carbon fiber composites in aerospace has been increasing due to their high specific strength and moduli. To be successfully applied in engineering, it is essential that a wide range of mechanical properties of composites are prefabricated, characterized, and analyzed theoretically. Therefore, the controllable design and intrinsic mechanisms of microstructures of composites with specific functions have also gained abundant attention research and shown great promise for use in engineering applications. To this end, this Special Issue aims collect and publish these valuable analytical, experimental, or computational research works regarding the mechanical properties of any kind of advanced composite material relevant to microstructure.





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

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