## **Special Issue**

# Design, Structure, and Performance of Novel Composite Materials for Sustainable Energy Applications

## Message from the Guest Editors

This multidisciplinary Special Issue aims to explore the intersection of material science and sustainable energy solutions. Researchers and experts are invited to submit papers that delve into, but are not limited to, the innovative use of composite materials to address the challenges of advancing sustainable energy technologies, the design principles behind these novel composite materials, and analyzing their underlying structures at various scales from polymer, metal, ceramic, and bio-based composites. Submissions could focus on the synthesis techniques, manufacturing processes, characterization methodologies, or properties such as efficiency, durability, overall viability, and more. Ultimately, this Special Issue aims to foster a deeper understanding of the intricate relationship between composite material design, its structural attributes, and its pivotal role in driving sustainable energy advancements. By sharing insights and discoveries, the academic community endeavors to accelerate the development of materials that can reshape the landscape of renewable energy for a more sustainable future.

### **Guest Editors**

Prof. Dr. Huajun Fan

Dr. Mirza Galib

Dr. Jianping Shang

## Deadline for manuscript submissions

closed (20 October 2024)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/184697

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





## About the Journal

## Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### **Journal Rank:**

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)