

## Special Issue

# Synthesis, Characterization and Application of Hybrid Composites

### Message from the Guest Editor

Polymer composites represent the platform materials of the XXI century and are an important slice of the market in the production of modern plastics. Their design is based on adding a second component to the polymer matrix to enhance its properties. Among the various possible composites, organic–inorganic hybrid materials offer advantageous performance relative to either of the non-hybrid counterparts. The dramatic improvement of physical properties, compared with pure materials, in which inorganic particles or nanoparticles are inserted into an organic polymeric matrix, could bridge the gap between ceramics and polymers. We are interested in articles that explore polymer-based hybrid systems. Potential topics include, but are not limited to, the following:

- The synthesis and characterization of polymeric hybrid materials
- Hybrid composites in electronics and energy applications
- Hybrid composites in space applications
- The biomedical application of hybrid polymeric materials

**Keywords:** Composites, Nano-composites, Polymer blends, Polymer hybrid, Biomimetic materials, Biopolymer

---

### Guest Editor

Prof. Dr. Ignazio Blanco

Department of Civil Engineering and Architecture, University of Catania,  
Viale A. Doria 6, 95125 Catania, Italy

---

### Deadline for manuscript submissions

closed (31 May 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/22038](https://mdpi.com/si/22038)

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

[mdpi.com/journal/  
appls](https://mdpi.com/journal/appls)





# 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 )