



## **One Dimensional (Nano)Structures and Their Related (Nano)Composites: Synthesis, Properties, and Modification**

Guest Editor:

**Prof. Dr. Mircea Chipara**

Department of Physics and  
Astronomy, The University of  
Texas Rio Grande Valley, 1201 W.  
University Drive, Edinburg, TX  
78549, USA

Deadline for manuscript  
submissions:

**closed (26 December 2021)**

### **Message from the Guest Editor**

This issue focuses on the synthesis, characterization, modifications, and degradation (including processing) of 1-dimensional structures including new architectures based on the dispersion of 1-dimensional materials within various matrices. Theoretical models as well as computational advances are welcomed. Recent applications as well as potential developments are also considered. Materials and (nano)composites with advanced, enhanced, and novel mechanic, electric, magnetic, chemical, and biological features including materials with combined features such as ferroics and metamaterials embedding or having 1-dimensional features will be considered. Reports on the processing of such materials, including their behavior in extreme environments (such as the space environment), are welcomed.





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](#)