



an Open Access Journal by MDPI

## Carbon Nanostructures as Promising Future Materials

Guest Editors:

**Prof. Dr. Marcel Popa**

“Cristofor Simionescu” Faculty of  
Chemical Engineering and  
Environment Protection,  
“Gheorghe Asachi” Technical  
University, Iasi, Romania

**Prof. Dr. Leonard Ionut  
Atanase**

Faculty of Medical Dentistry,  
“Apollonia” University of Iasi,  
Romania-11, Pacurari Street,  
700511 Iasi, Romania

Deadline for manuscript  
submissions:

**closed (25 November 2022)**

### Message from the Guest Editors

Dear Colleagues,

Carbon is an element well known for its allotropic states, which are determined by various structures that are found in diamond, graphite, graphene, etc., that have various uses. The last four decades have marked a relaunch of carbon-based materials, beginning with the discovery of new nanostructures such as fullerenes (1985, with Nobel Prize for Robert Curl, Harold Kroto, and Richard Smalley in 1996), carbon nanotubes (1991), graphenes (Nobel Prize for Andre Geim in 2004 and Konstantin Novoselov in 2010), carbon dots. The preparation of carbon nanostructures can be achieved through several strategies, two of which stand out as the most important: pyrolysis of organic precursors under an inert atmosphere, which is applicable to large scale production but offers limited control over the carbon nanostructure; physical/chemical vapor deposition techniques, which offer atomic scale precision in controlling the nanostructure but require complex equipment.

[...]

For further reading, please follow the link to the Special Issue website at: <https://www.mdpi.com/si/102271>.

Prof. Dr. Marcel Popa

Prof. Dr. Leonard Ionut Atanase

*Guest Editors*



[mdpi.com/si/102271](https://www.mdpi.com/si/102271)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Shirley Chiang**

Department of Physics, University  
of California Davis, One Shields  
Avenue, Davis, CA 95616-5270,  
USA

## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

## 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, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

## Contact Us

---

*Nanomaterials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/nanomaterials](http://mdpi.com/journal/nanomaterials)  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)  
[X@nano\\_mdpi](https://x.com/nano_mdpi)