

## Special Issue

# The Synthesis, Assembly, Property and Application of Nanocrystals

### Message from the Guest Editor

Research interest in nanocrystals has continued to rapidly grow during the last decade. Such efforts include the development of new synthesis methods, opinions and insights of advanced structural understanding, and exploration of novel properties. The study of these nanocrystal-based materials has promoted the improvement and advancement of structural, optical, magnetic and electronic characterization techniques in the nanoscale. Investigation of nanocrystals has also demonstrated both the academic and technological importance, and offered great research opportunities within cross-disciplinary areas. I invite authors to contribute original research articles or comprehensive review papers, including the most recent progress and new development in the synthesis, characterization, assembly, design and analysis, utilization and application of nanocrystals. This Special Issue aims to cover a broad spectrum of this subject, from experimental preparation to theoretical prediction. For further reading, please follow the link to the Special Issue Website at:  
[http://www.mdpi.com/journal/nanomaterials/special\\_issues/crystals\\_nano](http://www.mdpi.com/journal/nanomaterials/special_issues/crystals_nano)

### Guest Editor

Prof. Dr. Jiye (James) Fang  
Department of Chemistry, State University of New York at Binghamton,  
Binghamton, NY 13902-6000, USA

### Deadline for manuscript submissions

closed (26 July 2019)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/15905](http://mdpi.com/si/15905)

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

[mdpi.com/journal/  
nanomaterials](http://mdpi.com/journal/nanomaterials)





# Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of  
Birmingham, Birmingham B15 2TT, UK

---

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

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General  
Chemical Engineering)