



an Open Access Journal by MDPI

## The Synthesis, Assembly, Property and Application of Nanocrystals

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)**

### Message from the Guest Editor

Dear Colleagues,

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/crys](http://www.mdpi.com/journal/nanomaterials/special_issues/crys)

Prof. Dr. Jiye (James) Fang

*Guest Editor*



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

# 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)