



an Open Access Journal by MDPI

## Metal Oxide Core-Shell Nanoparticles

Guest Editors:

**Prof. Dr. Sung-Churl Choi**

Division of Material Science and  
Engineering, Hanyang University,  
Seoul 04763, Republic of Korea

**Dr. Gye Seok An**

Department of Advanced  
Materials Engineering, Kyonggi  
University, Seoul, Korea

Deadline for manuscript  
submissions:

**closed (30 April 2023)**

### Message from the Guest Editors

Dear Colleagues,

The core-shell structure has recently received considerable attention for its extensive application potential in various fields such as bio-medical, energy, and environment because of the combined function of the core and shell. In this inaugural Special Issue entitled “Metal Oxide Core-Shell Nanoparticles”, articles about designing metal core-shell nanoparticles, functionalizing via organic/inorganic compound, and fabricating complex-structured components of the shell layer will be gathered. We welcome contributions about purifying biomaterial, such as nucleic acid, protein, antibody, etc. However, the topics are not limited to bio-medical application and research about the core-shell nanoparticle for electronic devices, or environmental, energy and other applications included in our scope. In addition, research on the properties of metal oxide core-shell nanoparticles is welcomed, including functional properties, stability, and any other properties for future applications.



[mdpi.com/si/88956](https://mdpi.com/si/88956)

# 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)