



## Nano Geochemistry

Guest Editors:

**Prof. Dr. Thorsten Schäfer**

Friedrich Schiller University Jena,  
Institute of Geosciences, Applied  
Geology, 07749 Jena, Germany

**Prof. Dr. Woojin Lee**

Civil and Environmental  
Engineering, Nazarbayev  
University, Nur-Sultan 010000,  
Kazakhstan

**Dr. Gopala Krishna Darbha**

Indian Institute of Science  
Education and Research Kolkata,  
Mohanpur, India

Deadline for manuscript  
submissions:  
**closed (31 October 2022)**

### Message from the Guest Editors

The geophysical and chemical dynamics at the solid–water interface ultimately control the transport properties of geomaterials via dissolution/precipitation reactions and are of paramount importance for the fate of organic and inorganic contaminants in such systems. The mechanistic process understanding on the nanoscale is a prerequisite for the reliable prediction of the long-term behavior of chemical compounds in the natural and anthropogenic influenced environment. We encourage papers on research in the interdisciplinary field of earth and material science with an additional aspect of biogeochemical processes. Nucleation and nanoparticle formation are key aspects of strategic metal ore formation, biogeochemical cycling, and industrial processes, such as early cement hydration and advanced remediation strategies. Contributions on theoretical approaches, including molecular dynamic simulations and geochemical/surface complexation modeling, are also encouraged.

For further reading, please follow the link to the Special Issue Website at: <http://www.mdpi.com/si/916549>





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

## Contact Us

---

*Nanomaterials* Editorial Office  
MDPI, St. Alban-Anlage 66  
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://twitter.com/nano_mdpi)