



## Quantum Dot Frontiers

Guest Editors:

**Dr. Wei Chen**

College of Engineering Physics,  
Shenzhen Technology University,  
Shenzhen 518118, China

**Dr. Junjie Hao**

Department of Electrical and  
Electronic Engineering, Southern  
University of Science and  
Technology, Shenzhen 518055,  
China

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editors

Dear Colleagues,

Colloidal quantum dots (QDs), also known as nanocrystals (NCs) of a specific size range (2–20 nm), hold great promise for application in various fields, including but not limited to advanced lightings, photonics, optoelectronics, and bioimaging, which is mainly due to the customizable spectral properties of QDs. In terms of the visible range, cadmium chalcogenide QDs, such as CdSe or its alloys, exhibit vivid color performance in green and red, thus prompting QDs to be regarded as ideal light sources specifically when used for wide-gamut color displays. Particularly, the efforts expended toward developing ecofriendly QDs, such as InP and its alloys, have resulted in QDs being currently positioned on the verge of a new era based on the QD display technique. Moreover, newly emerged QDs, such as perovskite nanocrystals (PeNCs), are providing many new concepts for designing optoelectronic devices with much lower fabrication costs than those of conventional QDs.





## Editor-in-Chief

## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

## 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, Ei Compendex, dblp, and other databases.

**Journal Rank:** JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

## Contact Us

Micromachines 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/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://x.com/micromach_mdpi)