# **Special Issue**

# **Applications of Quantum Dots**

## Message from the Guest Editor

Quantum-confined semiconductor nanocrystals (quantum dots) are among the most interesting and important nanomaterials due to the range of their current and potential applications. These fascinating light-emitting nanomaterials are used in optoelectronics and photonics, including solar cells, solar concentrators, light emitting diodes (LEDs), displays, photodetectors and elements for quantum computing. Quantum dots have also found very important biomedical applications, such as biosensors, biolabels, assays for biological imaging and medical diagnostics and other uses. In addition the combination of quantum dots with other nanomaterials (e.g., plasmonic nanoparticles, graphene and other 2D nanomaterials) and various polymers resulted in many new hybrid composite materials with diverse potential applications. This Special Issue will be focused on current and prospective applications of quantum dots in materials science, chemistry, physics, biology, medicine and other fields.

### **Guest Editor**

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## Deadline for manuscript submissions

closed (31 January 2019)



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## **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 nanometerscale 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**

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