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Recent Advances in the Synthesis, Characterization and Applications of Functional Nanoparticles and Quantum Dots (Volume II)

Guest Editors:

Prof. Dr. Hsueh-Shih (Sean) Chen

Prof. Dr. Ping Yang

Dr. Meng-Lin Tsai

Prof. Dr. Katarzyna Matras-Postołek

Deadline for manuscript submissions:
30 October 2024

Message from the Guest Editors

Dear Colleagues,

Functional quantum dots and nanoparticles continue to be at the forefront of research and innovation, finding applications across various domains. The past decades have witnessed significant advancements in the synthesis, characterization, and application of QDs and NPs, leading to their integration into consumer products. Emerging technologies underscore their impact on everyday life. Recent advancements in QD light converters for mini-LED or micro-LED technologies highlight their significance in optoelectronics. Building upon the success of previous research endeavors, we are pleased to announce the second volume of a Special Issue dedicated to further exploring the potential of QDs and NPs in practical applications and addressing current challenges and opportunities.

We invite researchers and scientists to submit original research and review papers on topics related to the synthesis, characterization, and application of QDs and NPs.

Prof. Hsueh-Shih Chen

Dr. Meng-Lin Tsai

Prof. Dr. Katarzyna Matras-Postołek

Prof. Pin Yang
Guest Editors

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Special Issue

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Editor-in-Chief

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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.

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