



Quantum-Dots Sensors

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Message from the Guest Editor

The quantum confinement effects, the large surface-to-volume ratio, and the peculiar surface chemistry of quantum dots give such nanosized materials a tremendous potential as sensing tools in several applications, such as food and water analysis, environmental monitoring, bio-medical, safety and security, photonics, or space. To pave the way to high-performance sensors exploiting the unique properties of quantum dots, the last decades have seen a growing interest in the research and development of new nanosized inorganic and organic materials, new methods of synthesis and surface functionalization, innovative hybrid nanostructures, as well as new sensing concepts and transduction principles.

Papers including but not limited to the following themes are expected:

New synthesis and functionalization methods of quantum dot nanocrystals for sensing tools; the design and development of quantum-dot-based sensing elements; new detection principles; plasmonics; chemical sensors; bio-sensors; electrochemical sensors; optical sensors; photodetectors; and magnetic nanoparticle sensors.





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Message from the Editor-in-Chief

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