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# **Preparation, Characterization and Utility of Quantum Dots**

Guest Editor:

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Deadline for manuscript submissions:

closed (31 May 2019)

## Message from the Guest Editor

Dear Colleagues,

There is considerable interest in the preparation and study of quantum dots (QDs). Many QDs contained cadmium and telluride, and, although these achieved very high photoluminescence quantum yield (PL QY) and tunability of emission color, their toxicities have to be considered. Nowadays, researchers are more focused on the preparation and application of core/shell or cadmium-free quantum dots. Carbon quantum dots (CQDs) are a relatively new class of nanomaterials that have attracted a great deal of attention as promising substitutes to already-available semiconductor QDs, owing to their unique properties and non-toxicity. Surface passivation and functionalization play very important roles in the properties and utilization of prepared QDs.

In this Special Issue, we are especially interested in papers based on all aspects connected with QD syntheses, optical imaging, biosensing, immunosensing, optical tracking, drug delivery, protein/peptide delivery, and diagnostics. In vitro and in vivo toxicity studies are welcomed, as well as other fields of QDs applications, such as optoelectronics, photovoltaics and photocatalysis.

Dr. Pavel Kopel Guest Editor











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## **Editor-in-Chief**

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## **Message from the Editor-in-Chief**

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