Special Issue

Functional Carbon Quantum Dots: Synthesis and Applications

Message from the Guest Editors

Carbon-based quantum dots are mainly divided into two subgroups—carbon quantum dots (CQDs) and graphene quantum dots (GQDs)-which exhibit excellent optical properties, low toxicity and easy functionalization. Regarding these features, they have been promising candidates for photoelectric science and engineering applications. The rapid development of creating excellent CQDs requires the research community to comprehensively analyze the structure-activity relationship between photoelectric properties and the microstructure. This Special Issue aims to collect the latest developments of CQDs, mainly including the regulation of optical properties in broadband absorption, full-color fluorescence and their applications in photoelectric catalysis. We invite you to submit your research on all related topics for this Special Issue in the form of full papers, reviews or communications.

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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