Special Issue

Implementation of Carbon Nanodots in Sensing Applications for Biotechnological Advancement

Message from the Guest Editor

Carbon nanodots have attracted broad research interest for years, because of their diverse physicochemical properties and favorable attributes like good biocompatibility, unique optical properties, low cost, Eco-friendliness, abundant functional groups, high stability, and electron mobility. Carbon nanodots have a huge impact on both health and environmental applications because of their potential to serve as nontoxic replacements for traditional heavy metal-based quantum dots. Carbon dots have been widely used as fluorescent probes for detecting various analytics in the environment or biological systems due to their intrinsic fluorescent properties, high sensitivity, quick response, low cost, and simple preparation methods. Because of their low toxicity, excellent biocompatibility, and photo-stability, carbon dots also provide promising probes for efficiently targeting and imaging cancer cells, and identifying and detecting bacteria. In this Special Issue, manuscripts on current advanced biotechnological research on carbon nanodots, carbon nanodots, graphene quantum dots and carbonized polymer dots will be considered for publication after peer reviewed process.

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