Special Issue

Catalytic Methods for the Synthesis of Carbon Nanodots and Their Applications

Message from the Guest Editors

Carbon dots (CDs) are a new class of carbon nanomaterials with astounding properties and applications, as the name implies, represent carbon nanomaterials of particle size less than 10 nm and with near-spherical shape. They have unusual properties, such as solubility in water, photostability, biocompatibility, environmental friendliness, sustainability of feedstock, fluorescence, photoluminescence, electrochemiluminescence, and many more.

Highlights of this special issue include, but are not limited to
Synthesis of carbon dots; Carbon dots from biomass, glucose, cellulose, algae, natural resources or plastics; Hetero-atom-containing carbon dots; N, S, B, Si, P and halogen-doped carbon dots; Properties of carbon dots; Sensors based on carbon dots; Imaging applications of carbon dots; Electrochemical sensors; Bioimaging; Carbon dot electronic nose; Carbon dot artificial nose; Chiral carbon dots; Biolabels; Biomarkers; Carbon dot hybrids; Carbon dot composites; Carbon dots for imaging cancerous cells; Carbon dots as TB biomarkers

Researchers in related fields are welcome to submit high-quality review papers and original research work to this special issue.

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