



Carbon Dots/Polymer Composites: Synthesis, Characterization and Applications

Guest Editor:

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Message from the Guest Editor

This Special Issue focuses on the synthesis of composites of CDs with various natural and synthetic polymers, their characterization, and their applications. Concerning the multifunctional nature of CDs, this Special Issue will be an interdisciplinary volume comprising fundamental aspects of CDs/polymer composites preparation, properties, and their widespread applications. Review articles with deep understanding and analysis are also welcome.

In particular, the topics of interest include but are not limited to

- Carbon dots composites with natural polymers such as chitosan, cellulose, plant gums, etc.
- Carbon dots composites with synthetic polymers such as PVA, PLA, PVP, etc.
- Study of binding interactions between CDs and polymers.
- CDs/polymer composites for smart packaging applications.
- Applications such as solid-state optical devices, sensors, fluorescent inks, and coatings.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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