



## Carbon-Based Functional Polymers: Design, Properties and Applications

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Synthetic carbon-based polymers are structurally tunable materials integral to modern life, whether for commodity products, such as clothing, food packaging, or household goods, or for specialist applications, such as microelectronics, renewable energy generation, or robotics. The success story of carbon-based polymers has its origin in their close coupling with the liquid fuel industry, optimized production methods, low costs, and immense chemical diversity; these features allow material properties to be precisely tailored to a huge range of different applications. In recent years, the research of new carbon-based polymers synthesis, functionalization, and their applications is a hot topic that is rapidly evolving in both academia and industry. This Special Issue is devoted to the most recent research on these topics, covering all aspects including synthesis and application of novel carbon-based polymers and structure–property relationships of carbon-based polymers.

Dr. Shengyu Dai  
*Guest Editor*





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