

Special Issue

Carbon-Based Catalysts and Electrocatalysts: Synthesis and Applications

Message from the Guest Editors

Carbon catalysts and electrocatalysts, the focus of this Special Issue, are essential in many fields of science, engineering, and technology, which is why papers reporting on “carbon materials” are published in journals in a wide range of specialties. The interest in carbon materials is related to the existence of several carbon sources, production methods, and widespread applications of carbon materials because of the ability of carbon atoms to form various bonding arrangements, yielding materials with diverse properties and applications. In addition, carbon materials can be easily tuned for specific applications. Traditionally, carbon materials like activated carbons, carbon blacks, and graphitic materials have been integral to adsorption and heterogeneous catalysis, serving as catalyst supports or catalysts themselves. Activated carbons, renowned for their high surface area, excel as adsorbents in applications ranging from drinking water purification to gas filtration. However, their application in the catalyst market has gained increasing attention, especially for their use as catalyst supports.

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