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Special Issue on

# Carbon Materials for Energy and Environmental Applications

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Energy shortage and environmental issues have triggered great interest in the development of hybrid materials. As one of the most fascinating materials, carbon-based hybrid materials have received greater attention due to their diversity, favorable properties, and active applications, including electroanalytical sensors, electrochemical capacitors, fuel cells, solar cells, lithium-ion batteries, lithium metal batteries, and flow batteries. For example, graphene-based materials are now playing an important role in energy conversion and storage fields due to the attractive qualities of graphene. Carbon nanotubes have also been considered as high conductive materials for battery electrodes. Other forms of carbon materials such as carbon fibers and carbon dots are attracting great attention in the electroanalytical area.

Overall, carbon-based materials play a critical role in energy storage, environmental protection, and technical conversion. Thus, this special issue intends to discuss the synthesis and design of various carbon-based hybrid materials which are expected to improve the properties of electrodes for environmental applications and energy storage.

Potential topics include but are not limited to the following:

- Carbon fiber-based electrode
- Porous carbon-based electrode
- Onion-like carbon electrode
- Carbon nanotubes and grapheme-based materials for electrochemical capacitors
- Carbon dots, fibers, and films for electroanalytical applications
- Different types of carbon materials (carbon tubes, carbon dots, carbon films, carbon fibers, etc.) for batteries applications

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