Special Issue

Electrochemical Applications of Biomass Carbon

Message from the Guest Editors

In recent times, there has been a growing focus on employing waste biomass as an abundant, cost-effective, and sustainable source of both fuel and materials. Compared to alternative carbon materials, properties derived from biomass are more environmentally conscious, with reduced toxicity. The conversion of abundant and economically viable biomass into carbon-based materials has emerged as an exceedingly promising avenue for obtaining low-cost, renewable, and sustainable electrocatalysts. These materials find applications in electrochemical capacitors, lithium-ion batteries, lithium–sulfur batteries, sodium-ion batteries, and other clean energy technologies, rendering them as fitting candidates for next-generation environmental energy solutions. Furthermore, biomass-derived carbon materials can function as exceptional supports for catalysts in fuel cells. This, again, emphasizes the significance of biomass-derived carbon materials in facilitating eco-conscious energy solutions. This Special Issue will not be limited to the above-mentioned topics; thus, all topics related to the subject of this Special Issue are welcome.

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