



Application of Carbon-Based Materials in Batteries

Guest Editor:

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Message from the Guest Editor

Due to the low cost and versatility in tailoring the structures and properties, carbon-based materials are already being applied in a variety of batteries. However, there is still a need for improved performance of carbon-based materials, and relevant mechanisms. Nanostructure design strategy and the heteroatom doping method can control the morphology and modulate the chemical and electronic environment of carbon materials to increase the performance of carbon-based materials. However, the structure-to-performance relationships and mechanism of carbon materials are still in their infancy and will require more comprehensive examination in the future. This is a driving force in the development of carbon-based materials applied in batteries, for finding innovative synthesis and technological solutions, as well as understanding the structure-to-properties relationships.

The Special Issue entitled “Application of Carbon-Based Materials in Batteries” aims toward new advances in this attractive field of research. We are pleased to invite you to contribute your research papers for this Special Issue.





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