

Nanoscale Architecturing and Functionalization of Graphenes for Energy Conversion and Storage

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Graphenes have received significant attention as potential energy materials due to their superior electrical properties, large surface area, and chemical and mechanical stability. Herein, I report the controll in the structure and chemical composition of graphene nanohybrids through supramolecular assembly and their applications into electrochemical energy conversion and storage devices. The solution processable nanohybridization of graphenes by electrochemically functional materials such as ionic liquids and polyelectrolytes would pave the way to obtain high performances of energy devices as well as to overcome the existing technology barriers.