



Redox Polymers for Energy Storage

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Message from the Guest Editor

With the ever-increasing demand for energy in human life, seeking a better energy-storage system has become a very important scientific and engineering issue. On this journey, inorganic metal-based batteries, such as lithium-ion batteries (LIB), have been very successful and have dramatically changed our lifestyles. However, the continuously increasing cost (~1500 USD/kg) and the limited reserves of lithium resources (17 ppm of the Earth's crust) require the development of alternative cheap, sustainable and powerful energy storage materials. Redox polymers have been found to have great potential in developing flexible plastic battery materials and have attracted significant attention in past decade. Studies on redox polymers in electrochemical energy storage have attained remarkable achievements, from seeking the new material candidates to the fundamental electrochemical properties, physical, and mechanic properties, and device fabrications. The aim of this Special Issue is to provide a platform for scientists to share their newest progress in this topic. Reviews related to redox polymers are also welcome.





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