



Ionic Conductive Polymers for Electrochemical Devices

Guest Editor:

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Message from the Guest Editor

Increasing levels of pollution, the rising cost of oil, and climate change are pushing the scientific community towards more sustainable solutions for the conversion and storage of energy. Devices such as fuel cells, redox flow batteries, and electrolyzers help to significantly decrease the amount of greenhouse gases emitted. Ionic conductive polymers are fundamental components of these devices (protonic, anionic, and amphoteric), generally requiring great chemical and mechanical stability; good performance and durability; low permeability to reagents; and excellent characteristics of weight, volume, and current density for several applications from mobile to automotive and co-generation systems.

The Special Issue seeks contributions to assess the state-of-the-art and future developments in the field of polymers for fuel cells, redox flow batteries, and electrolyzers. Topics include, but are not limited to, the development of new ionomers, composites, manufacturing techniques, characterization, applications, and demonstration efforts and industrial exploitation.





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Message from the Editor-in-Chief

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