Special Issue

Sustainable Polymeric Electrolytes for Batteries

Message from the Guest Editors

The growing demand for high-energy, high-performance, safe, and sustainable energy storage solutions is among the most important research topics in mobile electronic applications and electromobility. In this context, lithium and sodium ion batteries have become the most investigated solutions, with recent studies on improving their performance. We invite you to share your results on sustainable electrolytes for energy storage devices in this Special Issue. This Special Issue is broadly focused on sustainable materials for batteries, emphasizing their production processes and the strategy to make them greener and eco-friendly. This framework includes binders, cathodes, or anodes from renewed resources or processes to reduce environmental impact, reuse end-of-life materials, perform life-cycle assessments, and recycle. This Special Issue aims to highlight the latest innovations and upcoming addressed challenges in the field of sustainable polymer electrolytes for batteries, including production methods, reuse or recycling of end-of-life materials, and evaluation of processes not only related to small lab-scale but also with a possible industrial scale up.

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About the Journal

Message from the Editor-in-Chief

There are many issues facing society, such as energy/food/water security, plastic pollution, antibiotic resistance, global warming. To solve these (and other issues), scientists and engineers need to work together to tackle these imminent dangers. The field of Green (or Sustainable) Chemistry has been transformed in the last 30 years since Paul T. Anastas and John C. Warner pioneered the now famous “12 Principles of Green Chemistry”. The journal, Sustainable Chemistry (published by MDPI), aims to be one of the go-to journals in the area, publishing cutting-edge research in the area more broadly. The open access model allows our work to reach a broad base of readers from all corners of the world.

Editor-in-Chief

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