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Functional Polymers in Energy Conversion, Management, and Storage

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Deadline for manuscript submissions:

25 August 2024

Message from the Guest Editors

Dear Colleagues,

The scope of this Special Issue encompasses a wide range of topics related to functional polymers in the energy sector, including but not limited to:

- (1) Solar energy conversion: emphasizing novel approaches in solar cell technology, interfacial evaporation, and advancements in solar energy harvesting using functional polymers;
- (2) Mechanical energy harvesting: highlighting advancements in the field of mechanical energy capture, including friction-based nanogenerators and other polymer-based devices for energy harvesting;
- (3) Functional polymers in LED technology: addressing the role of polymers in light-emitting diodes (LEDs) for energy-efficient lighting solutions;
- (4) Polymer composite materials for thermal management: exploring innovative polymers and composites for efficient thermal management in electronic devices, aerospace, and MEMS;
- (5) Energy storage batteries: investigating the development and optimization of energy storage technologies, with a focus on lithium-ion batteries and other promising systems employing functional polymers.



Specialsue









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Message from the Editor-in-Chief

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