Special Issue

Electroactive Polymers: Fundamentals and Applications

Message from the Guest Editors

The field of electroactive polymers (EAPs) is burgeoning with innovative materials that respond to electrical stimuli with shape or dimensional changes. This Special Issue on “Electroactive Polymers: Fundamentals and Applications” is dedicated to exploring the latest advancements in EAPs, including conducting polymers, ionic polymer-metal composites, dielectric elastomers, liquid-crystal elastomers, and piezoelectric polymers. These smart materials have demonstrated potential in a myriad of applications, from sensors and actuators to energy harvesting and biomedical devices. We aim to provide a comprehensive platform for researchers to share their findings on the synthesis, characterization, and applications of these polymers. This includes the development of new materials, understanding their fundamental properties, and the exploration of their use in cutting-edge technologies. We encourage submissions that delve into the mechanistic understanding of EAPs, their integration into devices, and the demonstration of their functionality in real-world applications.

Guest Editors

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Dr. Hong Wang

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Deadline for manuscript submissions

20 August 2025

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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