

Special Issue

Polymer Based Composites for Energy Driven and Sensing Applications

Message from the Guest Editors

Increasing demand for electrochemical systems in responding to several societal needs, including renewable energy harvesting and storage, healthcare services, and environmental protection, requires the development of new sustainable materials and composites with superior performances. This Special Issue aims to highlight recent advancement in the development of polymer-based composites for a wide spectrum of applications towards more sustainable life, involving photovoltaic systems, electrocatalysis, electrochemical sensors, electrochemical assisted water remediation, rechargeable batteries, and supercapacitors. Consequently, the scope of this Special Issue includes (but is not restricted to): The synthesis and characterization of new functional polymer-based composites; The development of polymer-based solar cells (DSSCs), perovskite solar cells (PSCs), and organic solar cells (OSCs). The development of new electrocatalysts towards electrochemical water splitting, CO₂ reduction, nitrogen reduction, oxygen reduction, nitrite/nitrate reduction, etc.; Electrode and membrane for fuel cells, rechargeable batteries, redox flow batteries supercapacitors, and electrolyzers.

Guest Editors

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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