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 electrolysers.

Guest Editors

Dr. Thuan-Nguyen Pham-Truong
Laboratory of Physical Chemistry of Polymers and Interfaces, CY Cergy Paris Université, Cergy, France

Dr. Pierre-Henri Aubert
Laboratoire de Physicochimie des Polymères et des Interfaces, Cergy, France

Deadline for manuscript submissions

closed (15 August 2023)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/130431

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

About the Journal

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 4.7.

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
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

MDPI