



## Advanced Functional Polymers for Energy and Environmental Applications

Guest Editors:

**Dr. Hung-Ju Yen**

Institute of Chemistry, Academia  
Sinica, 128 Academia Road,  
Section 2, Nankang, Taipei 11529,  
Taiwan

**Dr. Febri Baskoro**

Institute of Chemistry, Academia  
Sinica, 128 Academia Road,  
Section 2, Nankang, Taipei 11529,  
Taiwan

Deadline for manuscript  
submissions:

**closed (31 May 2023)**

### Message from the Guest Editors

Functional polymers have become increasingly more popular in academia and industry due to their unique features and wide-ranging applications. These unique features mainly depend on the presence of chemical functional groups in the polymeric matrixes that regulate their physical (size, shape, volume, mechanical), chemical (thermal, biodegradability), optical, or electrical (conductivity, magnetism, thermoelectricity) properties. Currently, they reveal great potential in a variety of fields including actuating fabrics, coatings, biomedical, energy, and environmental applications.

Therefore, the aim of this Special Issue is to cover the most recent progress in advanced functional polymers, particularly focusing on (but not limited to) synthetic technologies, structural design, and functionalization and modification of new functional polymers. All the potential applications on energy and the environment, such as batteries, fuel cell, solar cell, membrane separation and purification, etc., as well as the structure–property relationships are also welcome in this issue. Original research articles and review papers related to functional polymers are welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

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

## 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.

## 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)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)