



## Thermal Analysis of Polymer Materials

Guest Editors:

**Prof. Dr. T. M. Indra Mahlia**

School of Civil and  
Environmental Engineering,  
University of Technology Sydney,  
Ultimo, NSW 2007, Australia

**Dr. Md Mofijur Rahman**

Centre for Technology in Water  
and Wastewater, School of Civil  
and Environmental Engineering,  
University of Technology Sydney,  
Ultimo, NSW 2007, Australia

**Dr. Muhammad Roil Bilad**

Department of Chemical  
Engineering, Universiti Teknologi  
Petronas, Seri Iskandar 32610,  
Malaysia

Deadline for manuscript  
submissions:

**closed (31 March 2020)**

### Message from the Guest Editors

Thermal analysis is an important characterization tool in the field of materials sciences because specific physico-chemical properties of synthetic polymers, bio-based polymers, nanomaterials, materials and biomaterials can be determined through thermal analysis. The thermal analysis of materials encompasses a variety of methods including differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), thermomechanical analysis (TMA), dynamic mechanic analysis (DMA), dielectric thermal analysis (DTEA), isothermal titration calorimetry (ITC) and heat transfer analysis to detect changes in material properties as a function of temperature.

This Special Issue will provide readers with up-to-date research on recent progress in the thermal analysis field and polymer processing into more applied materials such as polymeric membranes on polymer-based materials from different perspectives, including but not limited to materials sciences, thermal behaviour, kinetics and thermodynamics. Contributions on synthetic polymers, bio-based polymers, nanomaterials, polymer-based materials and biomaterials, polymer characterization, processing, and application are of interest.





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 5.0.

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

mdpi.com/journal/polymers  
polymers@mdpi.com  
X@Polymers\_MDPI