



RAFT Living Radical Polymerization and Self-Assembly

Guest Editor:

Prof. Dr. Po-Chih Yang

Department of Chemical
Engineering and Materials
Science, Yuan Ze University,
Taoyuan 32003, Taiwan

Deadline for manuscript
submissions:

closed (26 February 2018)

Message from the Guest Editor

Reversible addition-fragmentation chain transfer (RAFT) polymerization is one kind of well-established controlled/living radical polymerization (CLRP) methods (e.g., atom transfer radical polymerization, nitroxide-mediated radical polymerization, and RAFT polymerization) that exhibits numerous appealing characteristics for controlling the synthesis of a wide variety of macromolecular architectures, as well as maintaining molecular weight control, narrow molecular weight distributions, and functionality. The absence of catalysts and the ease of scaling up make RAFT one of the most versatile CLRP techniques. The use of CLRP methods has recently increased extensively in the preparation of block polymers, because using this method yields advantages such as an experimental setup, a wide range of functional monomers, and complex macromolecular architectures with well-defined end groups of narrow polydispersity in the CLRP. Amphiphilic block copolymers can form various self-assembled aggregates such as spherical micelles, vesicles, cylinders, gyroids, and lamellae through the selective interaction of the solvent with hydrophobic and hydrophilic blocks.





polymers



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 (*Polymers and Plastics*)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](https://twitter.com/Polymers_MDPI)