



Polymer-SiO₂ Composites II

Guest Editor:

Prof. Dr. Hyeon Mo Cho

University College, Yonsei
University, Incheon 21983,
Republic of Korea

Deadline for manuscript
submissions:

closed (31 July 2024)

Message from the Guest Editor

Silica is a common, particularly attractive material that is all around us. The bond enthalpy of Si–O is much larger than that of the C–O bond, rendering the thermal stability of silica, and its larger bond angle and longer bond length provide bond flexibility. In addition, uncondensed OH groups (silanol) on the silica surface make it easy for silica to connect with other materials, such as organic compounds, metal oxides, and metals.

Polymer/SiO₂ composites can be customized in many ways to meet the needs of new cutting-edge technologies. For example, investigations on their applications in sensors, photoactive materials, filters, anodes in lithium-ion batteries, drug delivery systems, catalysts, and biocompatible materials have been conducted.

This Special Issue will cover, but will not be limited to, the following aspects of polymer/SiO₂ composite chemistry and technology: novel preparation methods for polymer/SiO₂ composites; mechanism of formation of polymer/SiO₂ composites; novel micro- and macrostructural analysis of polymer/SiO₂ composites; novel chemical and physical properties of polymer/SiO₂ composites; and applications of polymer/SiO₂ composites.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Fraunhofer-Institut für
Angewandte Polymerforschung,
Lehrstuhl für Polymermaterialien
und Polymertechnologie,
Universität Potsdam,
Geiselbergstraße 69, 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 5.8.

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, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](#)