



Trends and Challenges in NMR Spectroscopy for Advanced Polymeric Materials Characterization

Guest Editors:

Dr. Khaled Sebakhy

Laboratory for Chemical Technology (LCT), Department of Materials, Textiles and Chemical Engineering, Ghent University, 9052 Ghent, Belgium

Dr. Mustapha El Hariri El Nokab

Department of Chemistry, Michigan State University (MSU), 578 S Shaw Lane, East Lansing, MI 48824, USA

Deadline for manuscript submissions:

closed (25 August 2024)

Message from the Guest Editors

Dear colleagues,

Solid-state NMR has displayed considerable potential for studying the chemical structure and dynamics of different types of advanced materials. Particularly in polymer science, the study of chemical modification, molecular packing, distance determination, structural changes and solvent–matrix interactions is essential for controlling final product properties and applications. Solid-state NMR, with its particular atomic-level research capabilities and recent technical advancements, offers great opportunities when exposing the hidden capabilities of such an underestimated spectroscopic technique.

This Special Issue will mainly focus on the work done by solid-state NMR on different types of polymeric materials (i.e., organic and inorganic polymers) and organic–inorganic polymer hybrids, including but not limited to the most advanced NMR strategies (i.e., beyond conventional methods) and the hardware design used to overcome technical issues in advanced polymer materials research.

Dr. Khaled O. Sebakhy

Guest Editor





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