

Special Issue

Magnetic Polymer Composites: Design and Application

Message from the Guest Editor

This Special Issue is intended to highlight recent advances concerning all aspects of MPC responsive properties based on magnetomechanical coupling, progress in the modelling and simulation of material behaviour at various scale levels, as well as possible novel applications. It is particularly focused on MPC compositions, e.g., (i) new architectures of polymer matrices, (ii) effects of magnetic particles' shape, and (iii) specifically designed magnetic filler arrangements to pave the way towards the development of magneto-polymer materials that exhibit novel architectures and functions. In addition to magnetoactive elastomers including smart membranes, thin films, and coatings, this Special Issue may also address magnetic foams and magnetic fluids based on polymeric dispersion media, as well as magnetic gels that are promising for medical applications. Both original contributions and reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2022)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/55511

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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 4.9.

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.

Editor-in-Chief

Prof. Dr. Alexander Böker

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