



Magnetic Polymer Composites: Design and Application

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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.





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Message from the Editor-in-Chief

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