



Peptide-Functionalized Polymeric Materials

Guest Editor:

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Message from the Guest Editor

The recent interest in the synthesis and applications of peptide-based materials has produced diverse peptide-based polymeric architectures, hydrogels, and nanoparticles for biological applications. These peptide-based polymeric scaffolds provide a great platform to combine the biodegradable and bioactive properties of peptides with the facile synthetic approaches and higher stability of polymeric materials and are being extensively studied for various applications, such as drug delivery, bio-sensing, tissue engineering, and preparation of antibacterial and anticancer agents. The decoration of polymer backbones with peptides by pre- or post-polymerization modification techniques has resulted in excellent stimuli-responsive self-assembled and degradable biomolecules, capable of efficient molecular targeting, antifouling, and anti-cancer and antibacterial activities. This Special Issue aims at collecting fundamental research studies on the synthesis of peptide-based polymeric materials and their applications.





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Message from the Editor-in-Chief

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