Special Issue

Advances in Bioactive Macromolecules

Message from the Guest Editor

The increasing demand from medical applications has put forward higher requirements for material performance. Bioactive macromolecules, including synthetic and natural polymers, have shown significant potential as functional material systems in biomedical fields such as protective wearables, wound treatments, targeted delivery, smart diagnostics, and tissue engineering. Through fine design at the molecular level, these macromolecules can be endowed with various bioactive functions, including but not limited to stimuli-response, controllable biodegradability, antibacterial/antiviral activity, etc. In addition, combined with the processability of polymers, these functionalized macromolecules can be further processed into different structures such as nanoparticles, micro/nanofibers, fabrics, hydrogels, and three-dimensional porous scaffolds to meet specific clinical needs. This Special Issue highlights the latest advances in novel bioactive systems, with a particular focus on their structure-function design.

Guest Editor

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Deadline for manuscript submissions

20 January 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/245115

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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 4.7.

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

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