



Advanced Materials for Highly Biocompatible Hydrogel Systems

Guest Editor:

Dr. Zheng Zhao

State Key Laboratory of
Advanced Technology for
Materials Synthesis and
Processing, Wuhan University of
Technology, Wuhan 430070,
China

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Message from the Guest Editor

Hydrogels are three-dimensional (3D) networks based on crosslinked hydrophilic polymers. Owing to their high water content, good biocompatibility, and elasticity similar to that of native tissue, hydrogels have gained increasing attraction as promising biomaterials for mimicking the extracellular matrix and use in biomedical applications such as drug delivery and tissue engineering.

We warmly invite you to submit your recent work to this Special Issue on “Advanced Materials for Highly Biocompatible Hydrogel Systems”.

Specific topics of interest include but are not limited to:

- Synthesis of biocompatible hydrogels
- Modification of biocompatible hydrogels
- Injectable hydrogels
- Self-healing hydrogels
- Multifunctional hydrogels
- Stimuli-responsive hydrogels
- Hydrogel coatings of biomaterials





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
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