



Functional Gels and Biopolymers

Guest Editors:

Dr. Kyeongwoon Chung

Department of Biofibers and
Biomaterials Science, Kyungpook
National University, Daegu 41566,
Republic of Korea

Dr. Jaehyeung Park

Department of Bio-Fibers and
Materials Science, Kyungpook
National University, Daegu 41566,
Republic of Korea

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Message from the Guest Editors

Dear Colleagues,

Gels and biopolymers are widely researched topics of interest, based on their superior biocompatibility and unique functionalities. Based on the material design and processing methods to prepare the materials, various functionalities (e.g., biocompatibility, biodegradability, rheological characteristics, ionic and electrical conductivity, flexibility and stretchability, and stimuli-responsive properties) can be successfully tailored, with a broad impact on research fields such as tissue engineering, drug delivery, wound dressings, sensors, electrolytes, and flexible/stretchable devices. The scope of this Special Issue is not limited to specific materials or applications, but is open to various approaches and investigations on material design, chemistry and synthesis; material characteristics; processing; and applications of various functional gels and polymeric materials.

Keywords: gels; biopolymers; sustainable polymers; functional polymers and composites; gelation and post-processing; additive manufacturing (3D printing); biomedical applications; energy applications; flexible and stretchable devices; sensors

Dr. Kyeongwoon Chung

Dr. Jaehyeung Park





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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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Contact Us

Polymers
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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