



## Functional Gels and Biopolymers

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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

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