# Special Issue

# Bio-Inspired Polymeric Gels and Their Applications

## Message from the Guest Editor

Bio-inspired polymeric gels have seen rapid development in the last ten years, involving many cutting-edge fields. Through the design of bio-mimetic gel structures with anisotropic, hierarchical layered, directional porous, double-network and self-assembled structures, bio-inspired polymeric gels can provide various specific functions for intelligent complex/powerful self-actuations, high-strength/self-healing artificial cartilages, soft wearable systems, high-efficient adsorption/ separation, and so on. However, compared with biological tissues/structures through hundred million years of natural evolution, existing artificial polymeric gels only have decades of development and can only mimic some simple structures/functions of organisms. Therefore, this Special Issue on “Bio-Inspired Polymeric Gels and Their Applications” focuses on research on bio-mimetic polymeric gels and their applications. We are pleased to invite you to contribute your recent work to this Special Issue.

## Guest Editor

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## Deadline for manuscript submissions

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# About the Journal

## Message from the Editor-in-Chief

*Gels* (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

## Editor-in-Chief

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