

Special Issue

Preparation and Application of DNA Hydrogel

Message from the Guest Editor

Deoxyribonucleic acid (DNA) not only stores genetic information but is also regarded as a block copolymer and polyanion. Designer DNA polymeric chains will self-assemble into well-defined secondary and higher ordered structures by following Watson–Crick base-pairing rules, which have been used to construct DNA materials with precisely designed structure and tailored functions. Among DNA-based materials, DNA hydrogel, a three-dimensional network of DNA polymeric chains, has received considerable attention in a wide range of promising applications. Furthermore, other functional materials could be introduced into DNA hydrogel, generating multifunctional hybrid hydrogels. This Special Issue plans to give an overview of the most recent advances in the field of antibacterial nanomaterials and their applications in diverse areas. This Special Issue aims to provide selected contributions on advances in the synthesis, characterization, and applications of DNA hydrogel.

Guest Editor

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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

Prof. Dr. Esmail Jabbari

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