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# **New Composite Hydrogels**

Guest Editor:

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## Message from the Guest Editor

In recent years, research on the creation, investigation, and application of composite hydrogels with different structures and compositions is actively developing due to the unique physicochemical (large specific surface area, porosity, etc.) and functional (optical, mechanical, deformation strength, a large degree of swelling in water and aqueous solutions, etc.) properties of these materials. These properties determine a wide range of applications, from technical fields (sorbents, gas separation, ionexchange membranes, etc.) to the food industry (food structurizers) and medicine (carriers of medicines for targeted delivery). Many hydrogels are analogues of natural systems and may be considered as model systems for basic research in chemistry, medicine, biotechnology, and engineering. The so-called "smart" or intelligent composite hydrogels, which are able to respond to small changes in the external environment in a pre-programmed way, are of particular interest.

This Special Issue is intended to reveal the latest achievements in synthesis technology, modern investigation methods and techniques, and applications of composite hydrogels.







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## **Message from the Editor-in-Chief**

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