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Thermoresponsive Microgels

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Message from the Guest Editor

This Special Issue on "Thermoresponsive Microgels" is dedicated to recent advances in the development of thermoresponsive microgels, including their synthesis, characterization, and applications.

Polymeric microgels take advantage of their intermediary state between branched polymers and macroscopic networks. These structures have molecular weights similar to those of linear polymers, but their intrinsically linked structure enables a special behavior upon contact with appropriate solvents: microgels can swell without dissolving, forming stable colloidal dispersions. These thermoresponsive microgels shrink upon temperature increase because of their intrinsic lower critical solution temperature, making them materials of choice for advanced drug delivery systems.

We welcome the submission of both theoretical and experimental studies in the design, engineering, and application of thermoresponsive microgels, with particular interest in the composition of innovative microgels. The most relevant fields of application will also be covered in this Special Issue to cover the most recent trends in the development of thermoresponsive microgels.

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Message from the Editorial Board

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.

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