

Special Issue

Responsive Nanogels for Drug Delivery

Message from the Guest Editor

Stimuli-responsive nanogels are nanoscopic polymeric materials able to modify their physico-chemical properties in response to the application of endogenous or exogenous signals. These kinds of materials—characterized by high stability and loading ability—together with biologic consistencey and high permeation capability, have attracted increasing interest thanks to the subsequent opportunity to obtain delivery systems in which the carrier assumes an active role in the drug delivery process, enabling the optimization of disease therapy. Internal (pH and temperature variations, ROS production, redox potential, enzymes, and glucose) or external (light, electric, or magnetic fields) microenvironmental factors, or a combination of both, can stimulate the response of nanogels, and are useful for the controlled release of bioactive compounds such as drug, genetic materials, or proteins. This Special Issue is devoted to the most recent developments in the synthesis and characterization of stimuli-responsive nanogels for drug delivery. Original research papers, communications, or review articles are welcome.

Guest Editor

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