Special Issue

Recent Progress in Polymer Gels

Message from the Guest Editor

Polymer gels have emerged as versatile materials with unique three-dimensional network structures that combine the properties of solids and liquids. Their ability to absorb large amounts of solvent while maintaining structural integrity has made them indispensable across diverse scientific and industrial domains. This Special Issue, "Recent Progress in Polymer Gels", aims to showcase cutting-edge advances in the design, synthesis, characterization, and applications of polymer gels. We seek to highlight recent innovations in gel chemistry, including stimuli-responsive systems, self-healing mechanisms, and novel crosslinking strategies. This Special Issue welcomes original research articles, comprehensive reviews, and perspectives that explore polymer gels in various contexts, including, but not limited to, biomedical applications, soft robotics, energy storage and conversion, environmental remediation, sensors and actuators, catalysis, and smart materials.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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