



Gels

an Open Access Journal by MDPI

CiteScore: 7.6

Indexed in PubMed

Impact Factor: 5.3

Special Issue Reprint

Synthesis, Properties, and Applications of Novel Polymer-Based Gels

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Cutting-edge research on polymer gels is characterized by interdisciplinary integration, combining insights from materials science, chemistry, engineering, and biology to address complex real-world challenges. Key advancements include the development of multifunctional gels with synergistic properties (e.g., self-healing, high stretchability, and sensitivity), the optimization of synthesis processes for improved sustainability, and the exploration of novel application scenarios in harsh or specialized environments. To capture these latest developments and foster knowledge exchange, *Ge/s* presents this Special Issue, “Novel Polymer Gels: Synthesis, Properties, and Applications”, featuring eleven high-quality contributions that showcase the state-of-the-art in polymer gel research. These studies span synthesis innovations, performance optimization, and practical applications, reflecting the dynamic and interdisciplinary nature of the field.

