



gels

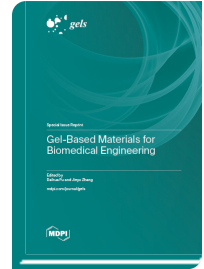


Special Issue Reprint

Gel-Based Materials for Biomedical Engineering

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This Special Issue, entitled “Gel-Based Materials for Biomedical Engineering”, presents recent advances in the design, fabrication, and biomedical application of gel-based materials. Gels, particularly hydrogels, have attracted considerable attention in tissue engineering, wound healing, drug delivery, and regenerative medicine due to their high water content, biocompatibility, and structural tunability. The contributions in this collection highlight a variety of gel systems, including natural and synthetic polymer-based hydrogels, nanocomposite gels, and stimuli-responsive materials. These materials exhibit functional properties such as antibacterial activity, tissue regeneration support, enhanced mechanical strength, and controlled drug release. The reprint offers a valuable reference for researchers and practitioners aiming to develop next-generation gel-based biomaterials for clinical and translational use.



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