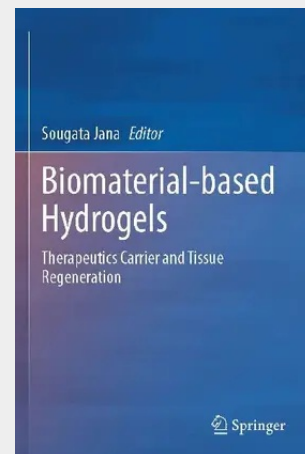


Biomaterial-based Hydrogels

Therapeutics Carrier and Tissue Regeneration

This book highlights recent advances in natural and synthetic biomaterials-based hydrogel for drug delivery carriers and tissue engineering. It covers key topics such as chitosan, alginate, gelatin, cyclodextrin, cellulose, starch, hyaluronic acid, dextran, collagen hydrogel, injectable hydrogel magnetic hydrogel, DNA-based hydrogels, 3D printing of hydrogels, hydrogel for bone tissue engineering and regenerative medicine, etc. Each chapter develops a particular aspect of recent advances in biomaterial-based Hydrogels delivery systems to cover the importance, fabrication technology, characterization, evaluation, delivery of therapeutic and biomedical applications, and future perspectives. Written by a group of renowned scientists, chemists, biologists, and engineers from around the world, the book is designed as an important reference resource for scientists and researchers working on advanced biomaterials in the fields of pharmaceuticals, biomedical science, biomedical engineering, nanotechnology, and material science for most updated findings and future research trends.

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