Multifunctional Hydrogels for Biomedical Applications

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DESCRIPTION

Multifunctional Hydrogels for Biomedical Applications

Comprehensive resource presenting a thorough overview of the biomedical applications of hydrogels

This book provides an overview of the development and applications of the clinically relevant hydrogels that are used particularly in tissue engineering, regenerative medicine, and drug delivery. Taking a multidisciplinary approach, it goes through the material from chemistry, materials science, biology, medicine, nanotechnology, and bioengineering points of view. Sample topics covered by the three well-qualified editors include:

• The design, functions, and developments of hydrogels

• Proteins and polysaccharides that mimic extracellular matrix

• Generation and applications of supramolecular hydrogels

• Design and functions of cell encapsulation systems

*Multifunctional Hydrogels for Biomedical Applications* is a useful all-in-one reference work for materials scientists, polymer chemists, and bioengineers which provides a comprehensive, contemporary understanding of hydrogels and their applications targeting a wide variety of pathologies.
ABOUT THE AUTHOR

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