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Frontiers in Biomaterials: The Design, Synthetic Strategies and Biocompatibility of Polymer Scaffolds for Biomedical Application

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About the ebook

This eBook highlights the importance of biomaterials and their interaction with biological system. It covers the latest challenges on the biocompatibility of scaffold overtime after implantation and discusses the requirement of innovative technologies for the development of materials with long-lasting scaffold and biocompatibility functions.

Contents

- Control Over Cell-Scaffold Interactions in Three Dimensions
- Biomaterials From Engineered Scaffolds to Potential Synthetic Organs: A Review
- Nanocrystalline Diamond Films for Biomedical Applications
- Bioceramics-Design, Synthesis and Biological Applications
- Role of Scaffolds in Dentistry From Conventional to Modern Innovative Biomaterials
- Polyester Biomaterials for Regenerative Medicine
- Crosslinked Electrospun Mats Made of Natural Polymers: Potential Applications for Tissue Engineering
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