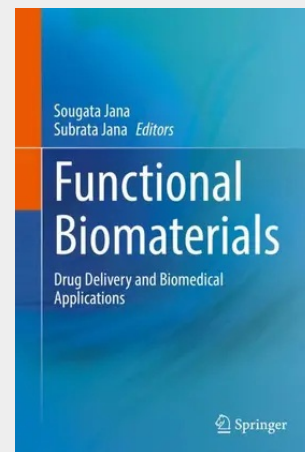


Functional Biomaterials

Drug Delivery and Biomedical Applications

This book explores in depth a wide range of functional biomaterials-based systems for drug, gene delivery, and biomedical aspects. The chapters cover newer technologies such as polymeric micelle, pH-responsive biomaterials, stimuli-responsive hydrogels, silk fibroin, inorganic biomaterials, synthetic biomaterials, 3D printed biomaterials, metallic biomaterials, ceramic and hybrid biomaterials. It also describes the theranostic approaches for cancer therapy, the biomaterials-based nanofibers scaffolds in tissue engineering, as well as the strategies applications of metallic biomaterials for the medical and dental prosthetic field. This newer and updated approach will be attractive for biomedical engineering students working on materials science in the development of novel drug delivery strategies. The book will be an important reference for researchers and professionals working on biomaterial research in the pharmaceutical and medical fields.

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246,09 €

229,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789811671517

Medium: Buch

ISBN: 978-981-16-7151-7

Verlag: Springer

Erscheinungstermin: 30.03.2022

Sprache(n): Englisch

Auflage: 1. Auflage 2022

Produktform: Gebunden

Gewicht: 1054 g

Seiten: 522

Format (B x H): 160 x 241 mm

