

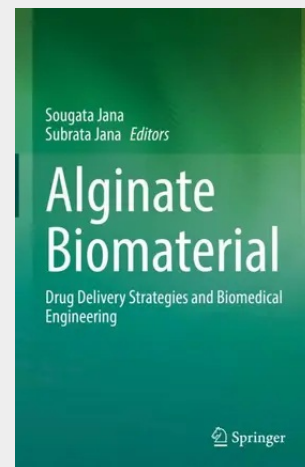
Alginate Biomaterial

This book focuses on recent trends of research on alginate-based biomaterials in Drug Delivery strategies and biomedical engineering. It contains the widely used alginate-based biomaterials as micro to nano-controlled drug delivery (oral, ocular delivery, topical delivery, etc.) and its fabrication technology, characterization, and biomedical aspects (such as cancer therapy, tissue engineering, gene delivery, vaccine delivery, enzyme immobilization, wound healing, dental applications, etc.) in a single book. The chapters cover updated information, current research trends, informatics, and all aspects of applications.

Alginate is a U.S. Food and Drug Administration (FDA)-approved natural biomaterial and has diverse biomedical applications. In recent years, researchers and scientists are working on the alginate-based drug delivery systems that have been designed and characterized as a matrix, micro to nanocarriers, fibers, composite/scaffolds, etc. Alginate has versatile properties such as biodegradable, biocompatible, nontoxic, and easily available. This book especially highlights both the drug delivery strategies and biomedical engineering aspects such as controlled drug delivery, drug targeting to the site of action, cancer therapy, gene and vaccine delivery, enzyme immobilization, tissue engineering, and regenerative medicine.

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246,09 €

229,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789811969362

Medium: Buch

ISBN: 978-981-19-6936-2

Verlag: Springer

Erscheinungstermin: 01.02.2023

Sprache(n): Englisch

Auflage: 1. Auflage 2023

Produktform: Gebunden

Gewicht: 889 g

Seiten: 423

Format (B x H): 160 x 241 mm

