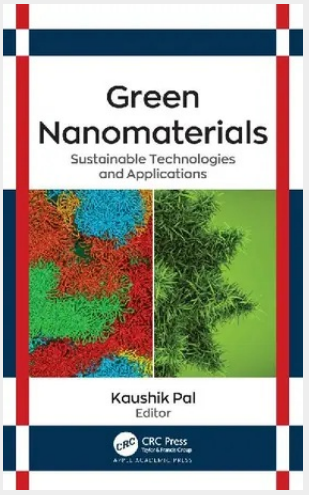
Pal

Green Nanomaterials

Sustainable Technologies and Applications



Recent technological advancements in green nanotechnology have opened a brand-new avenue for research and development in the field of medicinal plant-mediated nanoparticles, biopolymers, biotechnology, and antimicrobial and biomedical research. This new volume explores several eco-friendly technologies in green materials synthesis, which are of considerable importance. It takes an inter- and cross-multidisciplinary approach to the green chemistry of nanoengineering and green nanotechnology application in materials research. It provides informative coverage of this exciting and dynamic new field as well as relates the fundamentals of soft-nanomaterials fabrication and spectroscopic integration. The book explores bio-inspired self-assembly green nanomaterials for multifunctional applications as well as the design and synthesis of green polymeric nanomaterials for several pharmaceutical and biomedical applications, including biosensors, drug delivery, antimicrobial applications, etc. Also discussed is the fabrication of green polymer nanocomposites from waste and natural fibers, such as chitin fiber, chitin whisker fiber, cellulose fiber, nanocellulose fiber, eggshells, and cotton waste.

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197,50 €
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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781771889650
Medium: Buch
ISBN: 978-1-77188-965-0
Verlag: Apple Academic Press
Erscheinungstermin: 17.02.2022
Sprache(n): Englisch
Auflage: 1. Auflage 2022
Produktform: Gebunden
Gewicht: 524 g
Seiten: 254
Format (B x H): 157 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)