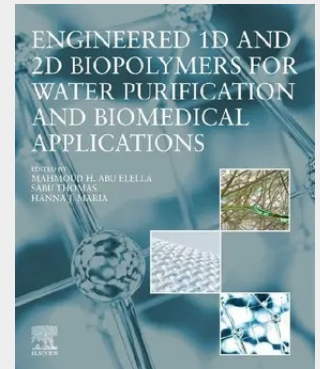


Engineered 1d and 2D Biopolymers for Water Purification and Biomedical Applications

Engineered 1D and 2D Biopolymers for Water Purification and Biomedical Applications presents cutting-edge research on biopolymers and their engineered materials, discussing advancements of 1D and 2D biopolymer technologies and showcasing their applications in water purification and biomedical fields. The book starts with an introduction to biopolymers and their engineered formulations, highlighting their classifications, properties, and fabrication methods. It then covers practical solutions for water purification, including the use of biopolymer micro- and nanofibers, nanotube technology-modified biopolymers, and thin layered biopolymer films. Other chapters explore recent developments in biopolymer-based micro- and nanofibers, smart thin films, and 2D membrane technology, along with applications in fabric technologies, cotton textiles, and advanced filter paper in biomedical settings. By offering in-depth coverage of the synthesis, properties, and applications of engineered biopolymers, this book is a valuable resource for researchers and industry professionals interested in expanding their knowledge of biopolymer applications in environmental remediation and biomedical fields.

Engineered 1D and 2D Biopolymers for Water Purification and Biomedical Applications presents cutting-edge research on biopolymers and their engineered materials, discussing advancements of 1D and 2D biopolymer technologies and showcasing their applications in water purification and biomedical fields. The book starts with an introduction to biopolymers and their engineered formulations, highlighting their classifications, properties, and fabrication methods. It then covers practical solutions for water purification, including the use of biopolymer micro- and nanofibers, nanotube technology-modified biopolymers, and thin layered biopolymer films.

Other chapters explore recent developments in biopolymer-based micro- and nanofibers, smart thin films, and 2D membrane technology, along with applications in fabric technologies, cotton textiles, and advanced filter paper in biomedical settings. By offering in-depth coverage of the synthesis, properties, and applications of engineered biopolymers, this book is a valuable resource for researchers and industry professionals interested in expanding their knowledge of biopolymer applications in environmental remediation and biomedical fields.



224,50 €

224,50 € (zzgl. MwSt.)

*vorbestellbar, Erscheinungstermin ca.
September 2026*

Artikelnummer: 9780443277955

Medium: Buch

ISBN: 978-0-443-27795-5

Verlag: Elsevier Science

Erscheinungstermin: 15.09.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Produktform: Kartoniert

Gewicht: 450 g

Seiten: 430

Format (B x H): 191 x 235 mm

