1. Record Nr. UNINA9910337932503321

Titolo	Functional Biopolymers / / edited by Mohammad Abu Jafar Mazumder, Heather Sheardown, Amir Al-Ahmed
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-95990-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (221 illus., 110 illus. in color. eReference.)
Collana	Polymers and Polymeric Composites: A Reference Series, , 2510-3466
Disciplina	668.9
Soggetti	Polymers Biomaterials Biomedical engineering Nanochemistry Materials - Analysis Regenerative medicine Biomedical Engineering and Bioengineering Characterization and Analytical Technique Regenerative Medicine and Tissue Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Synthetic biopolymers -- Specialty application of functional biopolymers -- Blood compatible polymers -- Cell encapsulation -- Tissue engineering -- Ophthalmic polymers -- Stimuli responsive polymers -- Stimuli responsive membrane -- Hydrogel -- Design of biomedical polymers -- Polymer colloids -- Cell surface engineering -- Polymers from renewable resources.
Sommario/riassunto	This reference work offers a comprehensive overview of the synthesis, properties and biomedical applications of functional biopolymers. Chapters from expert contributors cover topics such as synthetic biopolymers, blood-compatible polymers, ophthalmic polymers and stimuli responsive polymers. An up-to-date review of cell encapsulation strategies and cell surface and tissue engineering is also included in this work, and readers will discover more about hydrogels and polymers from renewable resources. Edited by an international

team of experts in the field, this reference work will appeal to researchers, scientists, and practitioners working in this field, or entering this vibrant research area.