

1. Record Nr.	UNINA9910483337703321
Titolo	Biomedical Composites : Perspectives and Applications // edited by Amit Kumar Nayak, Md Saquib Hasnain
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-334-753-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XI, 222 p. 40 illus., 34 illus. in color.)
Collana	Materials Horizons: From Nature to Nanomaterials, , 2524-5392
Disciplina	610.28
Soggetti	Ceramic materials Nanotechnology Biomaterials Biotechnology Biomedical engineering Regenerative medicine Ceramics Biomedical Engineering and Bioengineering Regenerative Medicine and Tissue Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Biomedical applications of nanosilicate composites -- Polysaccharide-based composites for biomedical applications -- Biomedical nanocomposites -- Antimicrobial nanocomposites -- Potential application of silver nanocomposites for antimicrobial activity -- Cellulose and chitin nanofibers: Potential applications on wound healing -- Bionanocomposites for in situ drug delivery in cancer therapy: early and late evaluations -- Tumor microenvironment and intracellular signal-activated nanocomposites for anticancer drug delivery -- Nanocomposites for Cancer Targeted Drug Delivery Therapeutics.
Sommario/riassunto	This book provides an overview of biocomposite chemistry, chemical modifications, characterization and applications in biomedicine, with emphasis on recent advances in the field. Authored by experts, the chapters discuss the design, development and selection of biomedical composites for a particular therapeutic application, as well as providing

insight into the regulatory and clinical aspects of biomedical composite use. While this book is primarily intended for scientists from the fields of medical, pharmaceutical, biotechnological and biomedical engineering, it is also useful as an advanced text for students and research scholars. .
