

1. Record Nr.	UNINA9910298586903321
Titolo	Alginates and Their Biomedical Applications / / edited by Bernd H.A. Rehm, M. Fata Moradali
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-6910-7
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XI, 268 p. 62 illus., 53 illus. in color.)
Collana	Springer Series in Biomaterials Science and Engineering, , 2195-0644 ; ; 11
Disciplina	572.566
Soggetti	Biomaterials Biomedical engineering Biotechnology Nanotechnology Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Sommario/riassunto	This book presents a comprehensive review of the latest advances in developing alginate-based biomaterials and derivatives as well as their biomedical and pharmaceutical applications. It covers the physicochemical properties of alginates, production and formulation methods, derivatizations and characterization methods, the fundamental work on optimizing alginate polymers for defined biomedical purposes as well as the scope and effectiveness of their applications in medicine and therapeutic approaches. The book brings together new concepts and advances in harnessing alginate-based biomaterials in combination with applied technological advances to tailor their applications to medical needs. The contributions by leading academics, clinicians and researchers not only cover the fundamentals, but also open new avenues for meeting future challenges in research and clinical applications.