

1. Record Nr.	UNINA9910688269203321
Titolo	Properties and Applications of Alginates // Irem Deniz, Esra Imamoglu, Tugba Keskin Gundogdu, editors
Pubbl/distr/stampa	London : , : IntechOpen, , 2022
Descrizione fisica	1 online resource (174 pages)
Disciplina	574.1929
Soggetti	Biochemical Phenomena Biosynthesis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Alginates are biodegradable, biocompatible, renewable, and natural polysaccharides in brown marine algae. Properties and Applications of Alginates provides an overview of the state of the art of chemical and material properties of alginates and biomedical and nanotechnology mechanisms underlying alginate biosynthesis. It discusses alginate-based materials' fundamentals that combine research and technological advances with current limitations. Moreover, novel technologies using alginate composites are introduced, and as well as the latest developments in alginate-based technologies were reviewed. It also examines potential uses of alginates in immobilized biocatalysts, nanoparticle synthesis, wastewater treatment, heavy metal removal, agriculture, pharmaceuticals, and biomedicine.