

1. Record Nr.	UNINA9910140872503321
Titolo	Engineered carbohydrate-based materials for biomedical applications : polymers, surfaces, dendrimers, nanoparticles, and hydrogels // edited by Ravin Narain
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2011
ISBN	9786613813459 9781118002247 1118002245 9780470944349 047094434X 9781282242333 1282242334 9780470944332 0470944331
Edizione	[1st ed.]
Descrizione fisica	1 online resource (426 p.)
Altri autori (Persone)	NarainRavin
Disciplina	660.6
Soggetti	Carbohydrates - Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	(Publisher-supplied data) Synthesis of Glycopolymers / Samuel Pearson, Gaojian Chen, and Martina H. Stenzel -- Block Glycopolymers and their Self Assembly Properties / Qian Yang -- Cationic Glycopolymers / Marya Ahmed and Ravin Narain -- Glycopolymer Bioconjugates / Marya Ahmed and Ravin Narain -- Glycopolymers Functionalized Carbon Nanotubes / Marya Ahmed and Ravin Narain -- Glyconanoparticles: New Nanomaterials for Biological Applications / Isabel Garcia, Juan Gallo, Marco Marradi, and Soledad Penad's -- Glycodendrimers and Their Biological Applications / Elizabeth R. Gillies -- Glycosurfaces / Anca Mateescu and Maria Vamvakaki -- Carbohydrate-derived Hydrogels and Microgels / Mitsuhiro Ebara -- Modified natural polysaccharides as nanoparticulate drug delivery devices / Archana Bhaw-Luximon.

Sommario/riassunto

"This book addresses the need for a comprehensive book on the design, synthesis, and characterization of synthetic carbohydrate-based polymeric materials along with their biological applications. The first two chapters cover the synthesis and self-assembly of glycopolymers and different techniques for creating these synthetic polymers. Subsequent chapters account for the preparation of block copolymers, branched glycopolymers, glycosurfaces, glycodendrimers, cationic glycopolymers, bioconjugates, glyconanoparticles and hydrogels. While these chapters comprehensively review the synthetic and characterization methods of those carbohydrate-based materials, their biological applications are discussed in detail."--Provided by publisher.

2. Record Nr.	UNINA9911019661503321
Titolo	Carbohydrates-- tools for stereoselective synthesis // edited by Mike Martin Kwabena Boysen
Pubbl/distr/stampa	Hanover, Germany, : Wiley-VCH, 2013
ISBN	9783527654543 3527654542 9781299157255 1299157254 9783527654574 3527654577 9783527654567 3527654569
Descrizione fisica	1 online resource (396 p.)
Altri autori (Persone)	BoysenMike Martin Kwabena
Disciplina	547.78
Soggetti	Carbohydrates Stereochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Carbohydrate auxiliaries -- pt. 2. Carbohydrate reagents -- pt. 3.

Carbohydrate ligands -- pt. 4. Carbohydrate organocatalysts.

Sommario/riassunto

Closing a gap in the literature, this comprehensive book presents such carbohydrate tools as chiral auxiliaries, reagents, complex ligands and organocatalysts, together with details of their preparation, as well as their successful application in stereoselective synthesis. It covers the synthesis of carbohydrate tools, and discusses examples for a broad range of different reactions compared to those obtained with the best conventional methods. An indispensable source for every organic chemist.