

1. Record Nr.	UNINA9910791839703321
Autore	Menkhaus Todd J
Titolo	Applications of electrospun nanofiber membranes for bioseparations [[electronic resource] /] / Todd J. Menkhaus, Lifeng Zhang and Hao Fong
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2010
ISBN	1-61761-778-4
Descrizione fisica	1 online resource (71 p.)
Collana	Nanotechnology science and technology series
Altri autori (Persone)	ZhangLifeng FongHao <1970->
Disciplina	660/.2842
Soggetti	Membrane separation Nanofibers Electrospinning Biomolecules - Separation
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	""APPLICATIONS OF ELECTROSPUNNANOFIBER MEMBRANES FORBIOSEPARATIONS""; ""CONTENTS""; ""ABSTRACT""; ""INTRODUCTION""; ""FABRICATION AND PROPERTIES OFELECTROSPUN NANOFIBERS""; ""2.1. ELECTROSPINNING PROCESS""; ""2.2. FABRICATION TECHNIQUES FORELECTROSPUN NANOFIBERS""; ""2.2.1. Synthetic Polymer Nanofibers""; ""2.2.2. Natural Polymer Nanofibers""; ""2.2.3. Carbon Nanofibers""; ""2.2.4. Ceramic Nanofibers/Hollow Nanofibers""; ""2.3. MORPHOLOGIES AND PROPERTIES OFELECTROSPUN NANOFIBERS""; ""NANOFIBER MEMBRANE BIOSEPARATIONS""; ""3.1. ADSORPTIVE BIOSEPARATIONS"" ""3.1.1. Ion-Exchange and Hydrophobic Interaction NanofiberMembrane Adsorption /Chromatography""""3.1.1.1. Surface Modification for Ion-Exchange and HydrophobicInteraction Functionality""; ""3.1.1.2. Ion-Exchange Nanofiber Membrane Bioseparations""; ""3.1.2. Affinity Nanofiber Membrane Adsorption/Chromatography""; ""3.1.2.1. Surface Modification for Affinity Functionality""; ""3.1.2.2. Affinity Nanofiber Membrane Bioseparations""; ""3.2. SIZE-BASED BIOSEPARATIONS WITHNANOFIBER

MEMBRANES""; ""CONCLUSION""; ""ACKNOWLEDGEMENT"";
""REFERENCES""; ""ABOUT THE AUTHORS""; ""INDEX""
