

1. Record Nr.	UNINA9910450451003321
Titolo	An introduction to electrospinning and nanofibers [[electronic resource] /] / Seeram Ramakrishna ... [et al.]
Pubbl/distr/stampa	Hackensack, NJ, : World Scientific, c2005
ISBN	1-281-88075-2 9786611880750 981-256-761-5
Descrizione fisica	1 online resource (396 p.)
Altri autori (Persone)	RamakrishnaSeeram
Disciplina	677/.4
Soggetti	Textile fibers, Synthetic Polymers - Electric properties Nanostructured materials Electronic books.
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 (p. 352-380) and index.
Nota di contenuto	Foreword; Contents; 1. Introduction; 2. Basics Relevant to Electrospinning; 3. Electrospinning Process; 4. Modeling of the Electrospinning Process; 5. Characterization; 6. Functionalization of Polymer Nanofibers; 7. Potential Applications; Appendix A Glossary of Terms; Appendix B Useful Websites on Electrospinning and Nanofibers; Bibliography; Index
Sommario/riassunto	The research and development of nanofibers has gained much prominence in recent years due to the heightened awareness of its potential applications in the medical, engineering and defense fields. Among the most successful methods for producing nanofibers is the electrospinning process. In this timely book, the areas of electrospinning and nanofibers are covered for the first time in a single volume. The book can be broadly divided into two parts: the first comprises descriptions of the electrospinning process and modeling to obtain nanofibers while the second describes the characteristi