Record Nr. UNINA9910677175103321 Electrospun materials and their allied applications / / edited by **Titolo** Inamuddin [and three others] Pubbl/distr/stampa Hoboken, NJ:,: Wiley,, [2020] ©2020 **ISBN** 1-119-65513-7 1-5231-3695-2 1-119-65510-2 1-119-65503-X Descrizione fisica 1 online resource (541 pages) Altri autori (Persone) AhamedMohd Imran 620.197 Disciplina Soggetti **Fibers** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Electrospinning fabrication strategies: From conventional to advanced approaches / JR Dias, Alexandra I. F. Alves, Carolina A. Marzia-Ferreira and Nuno M. Alves -- History, basics, and parameters of electrospinning technique / Aysel Kanturk Figen -- Physical characterization of electrospun fibers / Anushka Purabgola and Balasubramanian Kandasubramanian. Sommario/riassunto "The aim of this book is to explore the history, fundamentals, manufacturing processes, optimization parameters, and applications of electrospun materials. The book includes various types of electrospun materials such as antimicrobial, smart, bioinspired systems. It focuses on the many application areas for electrospun materials such as energy storage and harvesting, catalysis, biomedical including gene delivery and tissue engineering, separation, adsorption and water treatment technologies, packaging. The book emphasizes the enhanced sustainable properties of electrospun materials, with the challenges and future developments being discussed in detail. The chapters are written by top-class researchers and experts from throughout the world"--