1. Record Nr. UNINA9910555116203321

Titolo	From UXD to LivXD : living experience design / / edited by Sylvie Leleu-Merviel, Daniel Schmitt, Philippe Useille
Pubbl/distr/stampa	London, England : , : ISTE Hoboken, New Jersey : , : Wiley, , 2019
ISBN	1-119-61224-1 1-119-61225-X 1-119-61223-3
Descrizione fisica	1 online resource (287 pages)
Disciplina	004.21
Soggetti	User-centered system design Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910857791303321

Autore	Yarin Alexander L.
Titolo	Materials and Electro-mechanical and Biomedical Devices Based on Nanofibers / / by Alexander L. Yarin, Filippo Pierini, Eyal Zussman, Marco Lauricella
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-48439-8
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (0 pages)
Collana	CISM International Centre for Mechanical Sciences, Courses and Lectures, , 2309-3706 ; ; 611
Disciplina	620.5
Soggetti	Nanotechnology Biomedical engineering Materials Mechanics, Applied Nanoengineering Biomedical Engineering and Bioengineering Materials for Devices Engineering Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Novel Materials and Devices Based on Nanofibers -- Biomedical Applications of Nanomaterials -- Polyelectrolyte Nanofibers -- Modeling of Nanofiber Formation Processes.
Sommario/riassunto	The book is interwoven according to the intrinsic logics of modern most important applications of electrospun nanofibers. It discusses such application-oriented nanofibers as self-healing vascular nanotextured materials, biopolymer nanofibers, soft robots and actuators based on nanofibers, biopolymer nanofiber-based triboelectric nanogenerators, metallized nanofibers, and heaters and sensors based on them. It also includes such topics as the injectable nanofibrous biomaterials, fibrous hemostatic agents and their interaction with blood, as well as electrospun nanofibers for face-mask applications. The book also details polyelectrolytes-based complex nanofibers and their use as actuators. It also covers drug release

facilitated by polyelectrolytes-based complex nanofibers. The fundamental aspects of electrospinning of polymer nanofibers discussed in the final part of the book link them to the applications described in the preceding chapters. Such topics as polymer solution preparation and their rheological properties, e.g., viscoelasticity and the related spinnability, the electrical conductivity of polymer solutions, and the cascade of the physical phenomena resulting in formation of nanofibers encompass the experimental aspects. Also, the general quasi-1D equations used for modeling of formation of electrospun polymer nanofibers, and the numerical aspects of their solution are discussed in detail, including such modeling-driven applications as nanofiber alignment by electric focusing fields. .