

1. Record Nr.	UNINA9910688356003321
Titolo	Next-Generation Textiles / / edited by Hassan Ibrahim
Pubbl/distr/stampa	London : , : IntechOpen, , 2023 ©2023
Descrizione fisica	1 online resource (140 pages)
Disciplina	746.6
Soggetti	Textile painting
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Study of the Implantable and Non-Implantable Application in Medical Textile -- By Ramratan Guru, Anupam Kumar, Deepika Grewal and Rohit Kumar 145 -- 2. Healthcare and Hygiene Products Application in Medical Textile -- By Ramratan Guru, Anupam Kumar and Rohit Kumar 92 -- 3. Bacterial Cellulose: Biosynthesis and Applications -- By Ahmed Amr and Hassan Ibrahim -- VIEW ABSTRACT -- 4. Progress of Recycled Polyester in Rheological Performance in Molding, and Economic Analysis of Recycled Fibers in Fashion and Textile Industry -- By Wei Tiancheng Wei, Yu Sun and Eunkyoung Shim 53 -- 5. Limitations of Textile Recycling: The Reason behind the Development of Alternative Sustainable Fibers -- By Gizem Celep, Gamze D. Tetik and Fulya Yilmaz 293 -- 6. Numerical Investigation of Braided Structure Potential as a Cast for Femur Shaft Fracture -- By Jerry Ochola and Michele Conti 29 -- 7. A Review of Significant Advances in Areca Fiber Composites -- By Narayanan Gokarneshan, Venkatesan Sathya, Jayagopal Lavanya, Shaista Shabnum, Habeebunisa and Sona M. Anton 34.
Sommario/riassunto	Intelligent textiles are the next generation of textiles, materials, and products designed to react quickly to changes in their surroundings. They are designed to keep us cool in hot conditions, warm in cold environments, and comfortable in our regular day-to-day activities. They are utilized for convenience, fashion, safety, and protection. They also have applications in health care and hygiene in the form of intelligent medical textiles. This book provides a comprehensive

overview of these exciting new materials. Chapters discuss such topics as implantable and non-implantable applications in medical textiles, restrictions on the recycling of intelligent textiles, electronics and conductive materials in textiles, and more.
