

1. Record Nr.	UNINA9910890175503321
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Titolo	Advanced Functional Materials for Sustainable Environments // edited by R. K. Kotnala, Anjali Sharma Kaushik, S. Shankar Subramanian, Amit K. Vishwakarma
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-62620-6
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (296 pages)
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Disciplina	621.31
Soggetti	Energy harvesting Materials Catalysis Force and energy Energy Harvesting Materials for Energy and Catalysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Fundamental of Sustainable Materials -- Materials for Environmental Remediation -- Energy Generation from Water -- Advanced Materials for Energy Harvesting -- Carbon Based Structures for Energy and Environment Applications.
Sommario/riassunto	The book gives an insight into the latest research going on worldwide in the area of functional materials that specifically utilized for the energy harvesting, storage, and environmental monitoring. Since the technology is moving very fast day by day, it has become a need of hour to stay updated with recent advancements in materials which include electronic, magnetic, optical, adaptive, dielectric materials, etc., that are required to develop new functionalities with better performance that is beneficial for sustainable environment. The broad areas that are covered in the book include the knowledge of wide range of materials for energy harvesting, energy storage, and sensors for environmental monitoring. This book is a value additional reference for

beginners, researchers, and academicians regarding the new functional materials for device applications. This book covers a wide range of topics: multifunctional materials, 2D materials, sensing materials, materials for environmental studies, DFT and solar simulation of materials, perovskite and double perovskite materials, materials for energy conversion and storage, smart materials, advanced functional materials, polymeric materials, composites, materials for sustainable development, nanomaterials, and thin films.
