1. Record Nr. UNINA9910983324503321

Autore	Talreja Neetu
Titolo	Waste-Derived Carbon Nanostructures : Synthesis and Applications / / edited by Neetu Talreja, Divya Chauhan, Mohammad Ashfaq
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031752476 3031752473
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (479 pages)
Collana	Nanostructure Science and Technology, , 2197-7976
Altri autori (Persone)	ChauhanDivya AshfaqMohammad
Disciplina	620.5
Soggetti	Nanotechnology Materials Catalysis Force and energy Sustainability Nanoscale Design, Synthesis and Processing Materials for Energy and Catalysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Waste-Derived Carbon Nanomaterials (WD-CBNMs): Synthesis and Characterization -- Agrowaste-Derived 'Natural' Carbon Nanomaterial with Versatile Applications: Bacterial Cellulose -- Synthesis of carbon nanomaterials from agro-industrial wastes and their extensive applications -- Biological waste-derived carbon dots and their applications -- Waste-derived Cellulose Nanomaterials Based Membranes for Water Filtration Application -- Waste-derived Graphene for the removal of heavy metals: A sustainable approach towards environmental remediation -- Rice Waste-derived Carbon Nanomaterials for Environmental Applications -- Nutshell-derived efficient carbon nanomaterials as a potential smart electrode material for electrocatalytic hydrogen production -- Agricultural waste derived carbon nanomaterials for biomedical applications -- Synthesis and Characterization of Bio-based Carbon Nanomaterials from Agricultural Waste for Tissue Engineering Application -- Waste driven Carbon

	Nanomaterials for drug delivery application -- Waste derived carbon nanotubes (CNTs): A revolutionary product towards energy applications -- Waste-derived Carbon Nanomaterials for Solar Cell Applications -- Waste-derived carbon nanomaterials for Microbial Fuel Cells -- Waste-derived Graphene: A new avenue for Supercapacitors.
Sommario/riassunto	This contributed volume focuses on the development of waste-derived carbon nanostructures (WD-CNs) from various waste materials, such as municipal garbage, plastics, industrial waste, and agricultural residues, highlighting their potential for recycling in a circular economy. It explores synthetic processes that convert waste into valuable carbon nanomaterials, reducing the need for cleansing and lowering the carbon footprint compared to traditional methods. The book also examines the functionalization of WD-CNs for diverse applications in energy, environment, and biology, promoting sustainable innovation and commercialization of green technologies. It is a useful tool for researchers, graduate students and professionals working in the fields of materials science, nanotechnology, environmental science, and chemical engineering. .

2.

Record Nr.	UNINA9911004774603321
Autore	Hawley Chris
Titolo	Hazardous materials air monitoring and detection devices
Pubbl/distr/stampa	[Place of publication not identified], : Thomson/Delmar Learning, 2007
ISBN	1-62198-699-3
Disciplina	628.5/30287
Soggetti	Hazardous substances - Measurement - Pollution Air Air sampling apparatus Engineering & Applied Sciences Technology - General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph