

1. Record Nr.	UNINA9910338233203321
Autore	Reddy Narendra
Titolo	Sustainable Applications of Coir and Other Coconut By-products / / by Narendra Reddy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-21055-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (227 pages)
Disciplina	505 677.18
Soggetti	Renewable energy resources Biomaterials Textile industry Sustainable development Environmental engineering Biotechnology Renewable and Green Energy Textile Engineering Sustainable Development Environmental Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Overview of coir-Source, production, processing, properties -- Agricultural applications for coir -- Biotechnological applications for coir -- Composites containing coir -- Coir for environmental remediation -- Coir and its processing for energy applications -- Textiles from coir -- Medical applications of coir -- Coir in the transportation sector -- Miscellaneous applications.
Sommario/riassunto	This book provides detailed information on the methods and techniques that can be used to process coir, cocopeat and other coconut byproducts for developing various bioproducts. Coir is a unique raw material in that it is abundant, green, and sustainable. The most common industrial application of coir is to use it as a

reinforcement of composites with other natural or synthetic fibers and resins. Coir-based composites are used in automotive, construction, and packaging, among other applications. Recently cocopeat, coconut shells and other byproducts have been used for energy, environmental remediation and agricultural applications. This is the first reference describing the properties, processability, and applications of all the coconut byproducts. Properties of the products developed are also covered with a major focus on industrial applications. Provides a single, comprehensive reference source on the biorenewable material coir and other coconut byproducts Addresses properties, processing and a broad range of industrial applications Enables researchers spanning the materials, polymer, agricultural, composites and environmental areas to identify unique and useful applications of coir and other coconut byproducts.
