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Titolo	Acacia Wood Bio-composites : Towards Bio-Sustainability of the Environment // edited by Md Rezaur Rahman
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ISBN	3-030-29627-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (VI, 224 p.)
Collana	Engineering Materials, , 1868-1212
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Soggetti	Ceramic materials Biomaterials Sustainability Ceramics
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction of Various Types of Acacia Wood -- Acacia Wood and Its Surface Treatment for High Strength Bio-composites -- Optimization of Fabrication Technique to Prepare Acacia Wood Reinforced Bio-composites Based on PLA, PHA, Etc. -- Tensile, Flexural and Impact Strength of Acacia Wood Bio-composites -- Study of Surface Behaviour of Acacia Wood Bio-composites by Morphological Analysis -- Infrared Spectral Functional Group and Thermal Properties of Acacia Wood Bio-composites -- Environmental Impact Analysis of Acacia Wood Bio-composites -- Dielectrical Properties of Acacia Wood Bio-composites -- Effect of Nano-enhancement on Acacia Wood Bio-composites -- Possibility Usage of Acacia Wood Bio-composites in Applications and Appliances.
Sommario/riassunto	This book investigates the enhancement of properties of acacia wood and its surface treatment for high strength bio-composites. It describes the tensile, flexural and impact strength, surface behaviour, morphological analysis, infrared spectral functional analysis, thermal properties analysis and dielectrical properties of acacia wood bio-composites. It reports efforts on the optimization of fabrication techniques to prepare acacia wood reinforced bio-composites based on PLA, PHA, Etc. The book also reports on environmental impact analysis

of acacia wood bio-composites. A special chapter is dedicated to the nano-enhancement of acacia wood bio-composites and their possible use in applications in terms of sustainability and economics. .
