

1. Record Nr.	UNINA9910659490903321
Titolo	Advancements in Materials Science and Technology Led by Women // edited by Azman Ismail, Fatin Nur Zulkiple, Husna Sarirah Husin, Andreas Öchsner
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-21959-7
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (266 pages)
Collana	Advanced Structured Materials, , 1869-8441 ; ; 165
Disciplina	620.11071173 620.11082
Soggetti	Materials - Analysis Materials Detectors Agriculture Materials Characterization Technique Materials Engineering Sensors and biosensors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Review: Role of Nanoparticles Growth and Alleviation of Abiotic Stress in Plants -- Chapter 2: Performance of Fibreglass Mat and Woven for Prosthetic Leg Socket Application -- Chapter 3: Investigation of Leakage in Underground Pipelines Using the Radiotracer Technology -- Chapter 4: General Characteristics of Endophytes and Bioprospecting Potential of Endophytic Fungi -- Chapter 5: Biochar-Based Graphitic Carbon Nitride Derived from Biomass Waste for Degradation of Pyrene -- Chapter 6: Response Surface Methodology for the Optimisation of a 96-Well Microtitre Plate Coagulation Activity Assay -- Chapter 7: Nutrient Recovery from Anaerobic Palm Oil Mill Effluent Using Palm Kernel Shell Biochar and Deoiled Spent Bleaching Earth and their Effect on Oil Palm Growth -- Chapter 8: Red Tilapia By-Product (<i>Oreochromis sp.</i>) Hydrolysates: Bioactivities, Bioprocessing and Potential Applications -- Chapter 9: Microhardness and Process Parameters Optimization of Friction Stir

Welding on an AA5052 Thin Plate -- Chapter 10: Residual Stress Optimization of Friction Stir Welding on an AA5052 Thin Plate -- Chapter 11: The Effects of Fly Ash and Aluminium Trihydrate Incorporation on the Tensile and Thermal Properties of Epoxy Resin Mixtures -- Chapter 12: Modeling and Simulation of Planar Micro Coils for Invasive Pressure Sensing -- Chapter 13: Review on Electrochemical and Bio Sensors and their Application -- Chapter 14: Development of a Wireless Solar Power Transmission for Battery Chargers -- Chapter 15: Short Term Study on the Potential of Oil Palm Frond Biochar for Acid Sulphate Soil Amelioration -- Chapter 16: The Stress Analysis of the Jack Rod Crankshaft on a Single Cylinder Engine: A Study Using the Finite Element Method -- Chapter 17: Antimicrobial Peptides, an Alternative Antimicrobial Agent Against Multidrug-Resistant Microbes: Source, Application and Potential.

Sommario/riassunto

This book is a noteworthy series of works authored by women from diverse research areas and expertise. This book contains research papers from fundamental, experimental, and empirical studies in the fields of mechanical engineering and materials science is included in this book series. Methods for modelling data, structures, and materials using numerical and analytical techniques are described along with experimental data and methodologies.
