1. Record Nr. UNINA9910743683103321

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Titolo	Emerging Technologies for Future Sustainability : Proceedings of the 2nd International Conference on Biomass Utilization and Sustainable Energy; ICoBiomasSE 2022; 20–21 Sept., Malaysia / / edited by Hafiza Shukor, Hairul Nazirah Abdul Halim, Hui Lin Ong, Boon-Beng Lee, Mohd Hanif Mohd Pisal
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819916955 981991695X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (564 pages)
Collana	Green Energy and Technology, , 1865-3537
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Disciplina	662.88
Soggetti	Biomaterials Renewable energy sources Biotechnology Sustainability Green chemistry Renewable Energy Green Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Phytoremediation Potential of Salvinia molesta to Reduce Ni and Cd from Simulated Wastewater -- Soil Risk Assessment on the Usage of Molasses-Based Distillery Effluent for Paddy Irrigation: Heavy Metals Content -- Effects of Soil Conditioners on Rice Growth and Soil Properties under Water Stress at Vegetative Stage -- Soil Amelioration Effects on Morphology Traits of Upland Rice Root-Shoot and Soil Productivity under Water Deficit -- Comparison of Corn and Tapioca Starch Binders on the Characteristic of Rice Straw Charcoal Briquettes -- Pretreatment of Leucaena leucocephala Using Deep Eutectic Solvent

for Ethanol Production by Kluyveromyces marxianus UniMAP 1-1 -- Deep Eutectic Solvent Pretreatment of Rubber Seed Shells for Cellulose and Hemicellulose Production -- Inhibition Study on the Growth of Clostridium Saccharoperbutylacetonicum N1-4 (ATCC 13564) For the Production Biobutanol in ABE Fermentation -- Thermogravimetric Analysis on Empty Fruit Bunch, Rice Husk, and Rice Straw for Feedstockin Biomass Gasification -- A Review on Enhancement of Oil Palm Solid Waste through Torrefaction -- Energy Efficiency of Briquettes from Queen Pineapple (Ananas comosus [Linn.] Merr.) Wastes Using Three Organic Binders -- Optimization of Biobutanol Production from Detoxified Palm Kernel Cake Hydrolysate by Clostridium Acetobutylicum YM1 -- Mixed Matrix Membrane (MMMs) as Membrane Based Separation Technology: A Review -- Application of Machine Learning for Biogas Production from Lignocellulosic Biomass -- Utilization of Spent Coffee Ground As Adsorbent for Nitrate Removal -- Nitrate Adsorption using Spent Coffee Ground: Kinetics, Isotherm, and Thermodynamic Studies -- Impact of Power Supply on Electro-Precipitation of Nickel Hydroxide from Industrial Electronic Waste -- Optimization of Nickel Electrowinning from Simulated Watts Bath of Electronics Industrial Waste -- Bio-based Packaging Materials for Fruit and Vegetables - Current Applications and Future Trends: A Review -- Deep Eutectic Solvent-Assisted Synthesis of Nanocrystalline Cellulose Adsorbent for Silver Nitrate Removal -- Optimization of an Ultrasound-Assisted Extraction Method for Phenolic Content in Momordica Charantia Seeds and it’s Antifungal Activity Against Pleurotus ostreatus Green Mould Pathogen -- Optimization of Rice Bran Protein Extraction Using Choline Chloride-Glycerol Deep Eutectic Solvent Using Response Surface Methodology (RSM) -- Traditional Paddy Farmers Perception on Bioeconomy Social Change on Adapting Internet of Things in Precision Farming -- Bioeconomy of Local Soybean Farming to Increasing Commodity Competitiveness -- Microbial Fuel Cell: Simultaneous Bioremediation and Energy Recovery Technology -- Green Renewable Energy: Microbial Fuel Cell Technology.

Sommario/riassunto

This book presents high-quality peer-reviewed articles from the 2nd International Conference on Biomass Utilization and Sustainable Energy 2022 (ICoBiomasSE 2022) organized by the Centre of Excellence for Biomass Utilization (COEBU), Universiti Malaysia Perlis (UniMAP), Malaysia. The theme of the conference “Emerging Technology for Future Sustainability” is chosen in view of the current revolution and rapid developments in the field of biomass innovation towards sustainable development. The contents are broadly divided into five parts: (1) sustainable biomass resources for decarbonizing the economy, (2) biomass conversion technologies for bioenergy and biofuels, (3) biomass conversion to intermediates and products, (4) bioeconomy sustainability, impacts and policies and (5) bioenergy integration. It provides a platform for students, professionals, researchers, academicians, policymakers and industries working in the areas of biomass utilization and sustainable energy to solve long-standing environmental issues for a healthier planet.