1. Record Nr. UNINA9911026141003321

Autore	Mohd Aluwi Mohd Fadhlizil Fasihi
Titolo	Industry-Academia Initiatives in Biotechnology and Chemistry
Pubbl/distr/stampa	Zurich : , : Trans Tech Publications, Limited, , 2023 ©2023
ISBN	9783035738155 3035738157
Edizione	[1st ed.]
Descrizione fisica	1 online resource (202 pages)
Altri autori (Persone)	Abd HamidHazrulrizawati HongPui Khoon AzmiNina Suhaity GovindanNatanamurugaraj
Disciplina	660.6
Soggetti	Biotechnology Biochemistry Academic-industrial collaboration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Industry-Academia Initiatives in Biotechnology and Chemistry -- Preface -- Table of Contents -- Chapter 1: Materials and Technologies for Environmental Protection -- An Adsorbent Based on Humic Acid-Like and Carboxymethyl Cellulose for Efficient Pollutant Removal from Synthetic Wastewater -- Copper Oxide Coupled Titanium Dioxide (CuO/TiO2) Nanocomposite Photocatalyst for Degradation of Methyl Orange Dye -- Photodegradation of Reactive Blue 4 Using Suspension of Anatase-Titanium Dioxide and Corn Cob -- Adsorption of Methylene Blue Using Tea Waste Treated with Alkaline-Potassium Hydroxide -- Synthesis and Characterization of Molecularly Imprinted Polymer with Oleic Acid as a Template -- Characterizing Groundwater Turbidity Reduction by Using a Magnetic Biocarbon Adsorbent Composite (MBAC): Process Optimization -- PLA Degradation and PLA-Degrading Bacteria: A Mini-Review -- Chapter 2: Applied Biotechnologies of Chemical Production -- Alkali Impregnation and Steam Explosion of Cogon Grass for Improved Enzymatic Saccharification -- Effect of Different Supported Heteropoly Acid on the

Catalytic Hydrothermal Conversion of Cellulose into Formic Acid -- Direct Energy Conversion from Metroxylon sagu via Multienzyme Catalysis in Enzymatic Biofuel Cell -- Chitin and Chitosan Preparation from Malaysian Black Soldier Fly Biomass: A Preliminary Study -- Formulation of Food-Grade Grease Using Paraffin Oil, Fumed Silica, and Chitosan -- Citric Acid Method Optimization for Pectin Extraction from Unripe 'Saba' Banana (Musa acuminata X Musa balbisiana BBB) Peels -- Factorial Analysis of Xylanase and Cellulase Production from Pineapple Peel Waste -- Agronomic and Proteomic Assessment of Salt Stress Responses in Pennisetum glaucum (Pearl Millet) Genotypes. Preliminary Study of Pleurotus ostreatus (Jacq.) P. Kumm. Spent Mushroom Compost as Nutrient Supplement on the Shoot Induction of Fig Tissue Culture -- Identification of Specific DNA Fragments in the Superior Mutant Plant of Rodent Tuber Accession Pekalongan (Typhonium flagelliforme) Based on Sequencing Analysis -- Antifungal Activity of Essential Oil Extracted from Melaleuca alternifolia against Pathogenic Fungi on Mango (Mangifera indica L.) for Mango Postharvest Application -- Synthesis and Application of Positively Charged and Magnetically Separable Magnetite/Silica-Ammonium as an Effective Platinum(IV) Adsorbent -- Keyword Index -- Author Index.

Sommario/riassunto

Selected peer-reviewed extended articles based on abstracts presented at the International Conference on Industry-Academia Initiatives in Biotechnology and Chemistry (iCIABC21) Aggregated Book.

2. Record Nr. UNINA9911022154703321

Autore	Lupa Micha
Titolo	Selected Proceedings of the 7th Space Resources Conference : KGK 2024 / / edited by Micha Lupa, Tadeusz Uhl, Jakub Staszel, Karolina Pargiea, Anna Malczewska
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031912276
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (496 pages)
Collana	Springer Aerospace Technology, , 1869-1749
Altri autori (Persone)	UhlTadeusz StaszelJakub PargieaKarolina MalczewskaAnna
Disciplina	629.1
Soggetti	Aerospace engineering Astronautics Outer space - Exploration Law of the sea International law Aeronautics - Law and legislation Aerospace Technology and Astronautics Space Exploration and Astronautics Law of the Sea, Air and Outer Space
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Space Structures and Materials Design and Operations -- Water as the main component of cosmic radiation shielding spacecraft wall modelling -- Prospects for the Use of Thin Film Photovoltaic Converters for Space Applications -- Features of Comparison Function for Simulating the Reaction Control System Using Analytical Networks -- Statistical Approach for Monitoring the Lack of Quality in Aerospace Manufacturing Operations -- Nanoparticles for space theranostics -- Moon exploration and exploitation -- The European Moon analog LUNA -- Regolith Analogs Analysis Through DEM A Focus on Repose Angle Test -- Cohesive Strength Tests of Lunar Regolith Simulants During

	Storage and Flow -- Earth and Space Mining a Short Overview of the Technical and Technological Challenges -- XRD analysis of lunar and Martian soils as a prerequisite for future human missions.
Sommario/riassunto	This book collects advances, innovations, and applications in the field of space resources and exploration, as presented by international researchers at the 7th Space Resources Conference (KGK), held in Kraków, Poland, on May 23–24, 2024. The book serves as a forum for discussion on the state-of-the-art technologies applicable to current challenges of space exploration, the use of space resources to improve the living conditions of humans and protect Earth’s natural environment, and the latest research results on space resource extraction, transportation, manufacturing in space, and how to develop settlements on the Moon and Mars. Topics include bioastronautics and life support systems, Earth observation and sensors issues, space law, subspace missions, space industry, society and space, space education, and space structures design and operations. The book, which is selected by means of a rigorous peer-review process, presents a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.