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Nota di contenuto	Determination of Some Heavy metals in selected cosmetic products sold in Mosul markets -- Novel Smart Water Quality Monitoring System for Iraqi Rivers and Marshes -- The effect of gypsum content on ammonium adsorption in some Gypsiferous soils -- Ecology and Biodiversity of Epiphytic Algae (Non-Diatoms) on Typha domingensis Pers In the Upper Euphrates River Between Haditha Dam and Al Baghdadi in Western Iraq -- Theoretical foundations and country experience for Mixed Land use -- The Effect of (University of Anbar is Green Oasis) Project in Improving Vegetation Cover -- Modeling and Analysis of land Surface Temperature Variations in Basrah Goernorate,

Iraq Using Remote Sensing Data and Geomatics Techniques -- Properties of Sustainable Foamed Concrete made with Waste Materials -- Elimination of lead (II) ions from Aqueous Solution by Clay-Biochar Composite Prepared from Kaolin and Date Seeds -- Evaluation of the validity of water storage tanks and the impact of water's physical, chemical, and biological characteristics -- Levels of Heavy Metals in Wastewater inlets in Heet, Rammadi and Fallujah Cites, Iraq -- Removal of Environmentally Polluting Heavy Metal Ions from Industrial Wastewater by Rice Husk -- Synthesis and characterization of HUKST-1 for purification wastewater from methylene blue dye -- Determining Radon Gas Concentrations in Tobacco Varieties Sold in the Regional Market, Iraq -- Phytochemical, molecular docking and Expressing the ALAD gene protected via Moringa extract against Nano lead in rats blood -- Evaluation of the air quality index for PM2.5 and PM10 in the station of the Great Husseiny Park in the holy city of Karbala -- Photocatalytic Nanoparticles SnO2/CuO in Treating Water Contaminated with Organic Methylene Blue Dye -- The Influence of Mono-rhamnolipid Produced by Pseudomonas guguanensis on Seed Germination and Growth in the Presence of Crude Oil -- Disadvantages of using Aluminum Composite Panels on the Iraqi environment -- Upgrading of bio-oil properties from date stones by co-pyrolysis with waste tires rubber in a fixed bed reactor -- Efficiency of Production Resource Utilization for Sustainable Potato Crop Production in Baghdad Governorate -- Evaluation of Heavy Metal Pollution in Sariyah River by using (HPI) and (MI) indices -- Molecular genetic divergence of several sunflower genotypes using RAPD technology -- Impact of spraying Benzyladenine (BA) and adding nitrogen fertilizer on the growth, and content of the active substance of Avena sativa L -- Effect of biodiesel produced from sunflower oil on engine emissions characteristics -- Evaluation of the diffusion results of the fodder Azolla crop in Ninevah – Governorate -- Mesoscale Analyses of Wind Power in the Western Part of Iraq -- Hydrothermal liquefaction of animal by-products using Chromium-Loaded H zeolite catalyst -- Reporting the Progression of Laminar Single-Phase Flow in a Double-Pipe Heat Exchanger via Horizontal Tube -- The Evaluation of Mechanical Properties for Laminated Composite Materials with Different Fiber Orientation -- Investigation Study of Impact Absorbed Energy and flexural Strength of Multi-Layers Composite Materials -- The influence filler loading on the mechanical characteristics of synthetic rubber composites filled with waste fiber -- Hydraulic Design Optimization and Performance Analysis of Piano Key Weirs: A Study of Geometric Factors and Staged Configurations -- Design and Evaluation of the Hybrid Solar Cooker Performance in Baghdad City Conditions.

Sommario/riassunto

This proceedings book of ICES 2023 presents the most recent studies on environmental sciences and environmental sustainability, which contributes to the resolution of environmental issues (air pollution, water pollution, soil pollution, noise pollution, thermal pollution, radioactive pollution, light pollution, and global warming). The discharge of environmental pollutants from industrial, commercial, residential, and sensible locations must be handled with care, since it may harm the air, water, and land if not adequately treated. As a result of the enormous volume of wastewater and environmental pollution generated daily, the majority of designs and developments of wastewater technologies and environmental treatment were unable to handle the load. This is a threat to sustainable growth, and it must be resolved in a precise, dependable, urgent, and timely manner. Sustainable creative and technical transfer approaches that can be utilized for supporting, operationalizing, and providingsustainable

wastewater and environmental treatment solutions are of interest to us. The authors hope that the book covers the possible spectrum of wastewater technologies and environmental treatment up to a high level of environmental protection, clean and green management lessons, identify the barriers to transformational change, and then inform the agenda and initiatives for sustainable development. ICES 2023 is devoted to wastewater technology and environmental treatment, with an emphasis on environmental protection at the highest level. ICES 2023 aims to disseminate current knowledge and sustainable development, share experience and lessons gained, and generate conversation and reflection in order to promote a paradigm shift that is sustainable. With the distribution of sustainable wastewater technology and environmental treatment, the ultimate goal is to bring revolutionary change to sustainable development.