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Nota di contenuto	Removal of Emulsified Oil from Oily Wastewater by Dithiocarbamates: Flocculation Performance, Mechanism and Effect of -N-CSS- Group Content -- Factors Affecting the Properties of Polymer Solution in Lake Water and Treatment Techniques -- Potential of Biohydrogen Production from Palm Oil Mill Effluent -- Treatment of Corn Hulling Wastewater by Citric Acidification and Electrocoagulation in Peru -- Synthesis of Goethite from Iron Recovered from Acid Mine Drainage at Quiulacocha (Cerro de Pasco) and Its Application in Phosphorus Removal -- The Possibility of Plastic Digestion from Municipal Waste by Microorganisms from Petroleum Oil Wastewater Treatment Pond -- Effects and Mechanism of Remediation of Eutrophic Water Using a Novel Biomaterial -- Evaluation of the Internal Circulation (IC) System Design for Biogas Production from Recycled Paper Mill Wastewater: A Biochemical Methane Potential (BMP) Test Approach Modeling the Trajectory of Solid Waste Using the SRH-2D Model Following Extreme

Rainfall in the Chiayi Mountain Area -- Study on Preparation and Performance of New Radon Reduction Covering Material for Uranium Tailings -- Experimental Study of Key Thermophysical Properties of Tobacco Waste -- Effect of Pre-treatment Methods on Phosphorus Recovery from Anaerobic Co-digestion of Food Waste with Digested Sludge -- Research on Methane Production by Anaerobic Digestion of Fruit Waste -- Study on the Migration Behavior of Uranium and Radium in a Uranium Tailings Storage -- The Temporal-Spatial Variation Pattern of Carbon Emissions in Fuzhou Communities and the Role of Building Form.

Sommario/riassunto

This proceedings book dedicates to publish exceptionally important and high-quality, agenda-setting research so as to tackle the key global and societal challenges of ensuring the provision of energy and protecting our environment for the future. The book appeals to chemical scientists, chemical and process engineers, energy researchers, bio-scientists, and environmental scientists from across academia, industry, and government. The scope is intentionally broad, and the book recognizes the complexity of issues and challenges relating to energy conversion and storage, alternative fuel technologies and environmental science. The main topics of this book include but not limit to (1) environmental pollution analysis and control; (2) carbon emissions, carbon sequestration, and carbon reduction; (3) low carbon urban planning, landscape design, and the related environmental effects; (4) green building design, building energy conservation, and building environmental management; (5) clean energy technology and application; (6) grid-connected renewable energy systems and sustainable energy management; (7) energy saving and heat transfer technology. All scales of studies and analysis, from impactful fundamental advances, to interdisciplinary research across the (bio) chemical, (bio/geo)physical sciences, and chemical engineering disciplines are welcomed. So, this book is linked to the energy-environment nexus and is of significant general interest to our community-spanning readership.