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Nota di contenuto	Chapter 1. Bird Diversity in the Mining Area of Bellary-Hospet Region, Karnataka, India -- Chapter 2. IOT Based Waste Management System through Cloud Computing and WSN -- Chapter 3. A Study on Selection of the Biofilm for the Hybrid Up-Flow Anaerobic Sludge Blanket (Huasb) Reactor Using the Computational Fluid Dynamics (CFD) Analysis -- Chapter 4. Experimental Investigations on the combined effect of TiO2 Nano additive and EGR on Engine Performance by using Mimusops Elangi Biodiesel Blend -- Chapter 5. Production and Application of chitosanases in Valorization of Crustacean Waste to Wealth -- Chapter 6. Capture of CO2 from Automobile exhaust by using Physical Adsorption Technique -- Chapter 7. Chemical Characterization and Environmental Implications of Recycled Sewage Sludge in the Proximity Soil of Treatment Plant -- Chapter 8. Novel Techniques of Synthesis of Nano-Cellulose from Sugarcane Bagasse and Its Applications in Dye Removal -- Chapter 9. Assessment of Greenhouse Gases and

Perception of Communities on Emissions from the Largest Dumpsite in Africa -- Chapter 10. Performance Analysis of Treatment of Distillery Spent-wash Using EGSB Reactor with Addition of Iron and Manganese.

Sommario/riassunto

This book features carefully selected articles on emerging technologies for waste valorization and environmental protection. The term “waste valorization” is used particularly in engineering, economics, technology, business, environmental and policy literature to refer to any unit operation or collection of operations targeted at reusing, recycling, composting or converting wastes into useful products or energy sources without harming the environment. The book discusses the rudimentary concept, and describes a range of emerging technologies in the field, including nano, fuel-cell and membrane technologies, as well as membrane bioreactors. It also examines in detail essential and common processes in waste valorization, such as rigorous chemical engineering applications, mathematical modeling and other trans-disciplinary approaches. The chapters present high-quality research papers from the IconSWM 2018 conference. .
