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Nota di contenuto	Chapter 1 – Investigation of a Solar Powered Ejector Absorption Cooling System Under Tunisian Climatic Conditions -- Chapter 2 – Trombe Wall Optimised for Mediterranean Climate: An Architectural Strategy for Energy Efficiency -- Chapter 3 – Valorization of Office Paper Recycling Processes -- Chapter 4 – Carbon and Water Footprint of Jeans – a Life Cycle Assessment Approach -- Chapter 5 – Comparative Analysis of Natural and Synthetic Resins for Eco-Friendly Hydrophobic Treatments in Textile Applications -- Chapter 6 – Development of Bio-Functional Textiles Based on Colocynth Oil Microcapsules -- Chapter 7 – Advanced

Modeling and Optimization of Acrylic Fibers Cationization Using Combined Response Surface Methodology (RSM) and Artificial Neural Networks (ANN) -- Chapter 8 – Response Surface Modeling of Amoxicillin Removal from Aqueous Solution: Box–Behnken Experimental Design and Batch Adsorption -- Chapter 9 – Assessment of Iron Contamination in Groundwater of Catchment Area Water in Nakatt from Kiffa (Mauritania).

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#### Sommario/riassunto

The book presents the selected papers presented at the 4th International Congress of Applied Chemistry and Environment (ICACE-4) that took place on December 12–14, 2024. This congress is organized every two years by the Laboratory of Environmental Chemistry and Clean Processes (Faculty of Sciences – University of Monastir, Tunisia), in partnership with ATuTeD (Tunisian Association of Sustainable Technologies). The conference promotes sharing ideas and emerging technologies and fosters research and development collaborations amongst academia, research institutions, and relevant industries. The topics of the conference will cover topics from the thematic sections: (1) Environment and Climate Change, (2) Clean Processes and Renewable Energy, (3) Sustainable Textiles and Circular Economy, (4) Green Chemistry and Natural Substances, and (5) Biomaterials and Nanotechnology.

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