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Nota di contenuto	Chapter 1. The Bark as a Bioindicator of Atmospheric Contamination by Heavy Metals According to Vehicular Traffic Intensity in El Tambo, Huancayo, Peru -- Chapter 2. Nipa Sap (Nypa Fruitican) as Supplementary Feedstock for Bioethanol Production in the Philippines: The Pamplona Experience -- Chapter 3. Optimization of Fuel Cell Power Systems using Biogas from Palm Oil Mill Plant -- Chapter 4. Identification of Community-Level Sustainability Indicators: A Climate Change and Risk Management Perspective -- Chapter 5. Study of extreme precipitations in corn culture in Chupaca, Junín - Perú 2009 – 2019 -- Chapter 6. Spatiotemporal Mapping of Agroforestry Degradation of Five Districts of Uttarakhand, India with Spectral Indices -- Chapter 7. Wood as a Catalyst for Construction and Architecture that facilitates the creation of sustainable and resilient communities. The case of the Palafitos de Chiloé, Chile -- Chapter 8. Identifying the most significant factors affecting urban housing sustainability and their scales/sectors of influence: a systematic review of the recent literature

-- Chapter 9. Academic Study of Tourists' Pro-Environmental Behaviour: A Literature Review -- Chapter 10. Green Building Design as a mechanism to strengthen resilient and sustainable communities. The case of the churches and the palafitos, Chiloé Chile -- Chapter 11. Analysis of the Vicugna pacos (alpaca) wool fiber in the properties of concrete -- Chapter 12. Assessment of Bridge Damage Based on Analytic Hierarchy Process -- Chapter 13. Hill-Patch system as a strategic management model to activate and conserve urban axes: The case of the San Bernardo Green Corridor, Santiago, Chile.

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#### Sommario/riassunto

This proceedings volume presents the selected papers from the 2022 8th International Conference on Advances in Environment Research (ICAER 2022), held as an online event from April 22-24. The papers presented at the meeting and published here cover issues of environmental sustainability from both ecological and socioeconomic perspectives, including but not limited to cutting-edge topics such as biogas, green building design, climate change, and sustainable forest management. This book aims to educate readers on how sustainability research can help society understand and combat our most pressing environmental challenges. The proceedings will be helpful for graduate students, researchers, environmental planners, and industry professionals interested in understanding the utility of environmental sustainability research for improving our lives and sustaining our planet.

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