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Soggetti	Waste management Energy policy Sustainable development Pollution prevention Air - Pollution Waste Management/Waste Technology Energy Policy, Economics and Management Sustainable Development Industrial Pollution Prevention Atmospheric Protection/Air Quality Control/Air Pollution
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Nota di contenuto	Handling and Utilization of Fly Ash from Thermal Power Plants -- Scope of Fly ash Application as a Replacement for Chemical Pesticides for Pest Control in Certain Crop Pockets of Neyveli and Virudhachalam Regions in Tamil Nadu -- Fly Ash and its Utilisation in Agriculture: Constraints and Opportunities -- Carbon and Nutrient Sequestration Potential of Coal Based Fly Ash Zeolites -- Pesticidal Activity and Future Scenario of Fly ash Dust and Fly ash Based Herbal Pesticides in Agriculture, Household, Poultry and Grains in Storage -- Synthesis, Quality Assay and Assessment of Fly Ash Based Chemical Pesticides for Efficacy against Pests of Crops, Stored Commodities and in Urban Areas -- Potential and Futuristic of Fly Ash Nano-Particle Technology in Pest Control in Agriculture and Synthesis of Chemical and Herbal Insecticides Formulations -- Behaviour of Fly Ash Concrete at High

Temperatures -- Effect of Fly Ash on Strength of Concrete -- Potential of Silica Sources Including Fly Ash as Green Technology Inputs To Induce Resistance to Biotic and Abiotic Stresses in Crop Plants: Overview -- Fly ash as a source of Silicon for Mitigating Biotic Stress and improving yield and changes in Biochemical Constituents and Silicon in Rice under Abiotic Stress -- Effective Utilization of Industrial Waste (Fly Ash) for Vermicompost Production by employing Eisenia Fetida.

Sommario/riassunto

This book presents a number of innovative uses of fly ash. Fly ash is a fine powder that is a byproduct of burning pulverized coal in thermal power plants. It is a pozzolan – a substance containing aluminous and siliceous material that when mixed with lime and water forms a compound similar to Portland cement. Though fly ash was a problem in terms of its disposal, it now has a variety of uses, such as a prime material in blocks, bricks, and PCC paving, and further applications are being investigated. As such, the recovery and reuse of fly ash wastes plays an important role in the implementation of the circular economy concept. Featuring selected, high-quality research papers presented at IconSWM 2018, the book provides valuable insights for the recycling industries, power plants, researchers, and governments.