Record Nr. UNINA9910392716303321 Biochar Applications in Agriculture and Environment Management // **Titolo** edited by Jay Shankar Singh, Chhatarpal Singh Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2020 **ISBN** 3-030-40997-X Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (xiv, 272 pages): illustrations Disciplina 333.9539 Soggetti Soil science Soil conservation Agriculture Environmental management Microbial ecology Climate change Sustainable development Soil Science & Conservation **Environmental Management** Microbial Ecology Climate Change Sustainable Development Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto Chapter 1. Applying Rice Husk Biochar to Revitalise Saline Sodic Soil in Khorat Plateau Area-A Case Study for Food Security Purposes (Saowanee Wijitkosum) -- Chapter 2. Impact of Pyrolysis Techniques on Biochar Characteristics: Application to Soil (Vineet Yadav and Puja Khare) -- Chapter 3. The Potential Application of Biochars for Dyes with an Emphasis on Azo Dyes: Analysis through an Experimental Case Study Utilizing Fruit-Derived Biochar for the Abatement of Congo Red

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Sommario/riassunto

This book provides up-to-date information on biochar use in management of soil health, agriculture productivity, green-house gases, restoration ecology and environment. Biochar application to nutrient deficient and disturbed soils is a viable option which may promotes advances in food safety and food security to human nutrition and overall fundamental research in the agricultural sciences. The book describes in detail how the recalcitrant biochar is able to persist for long periods of time and work as a shelter for soil microbial colonisation and their biomass/numbers. This book also includes contents related to important role of biochar applications in the restoration of contaminated agricultural soils. The book will be of particular interest to students, teachers and researchers in the disciplines.