

BIOCHAR

ENVIRONMENTAL MANAGEMENT

SCIENCE AND TECHNOLOGY



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AND STEPHEN JOSEPH

Biochar For Environmental Management Science And Technology

Mo Jie Sun, Ying Jie Zhang



Biochar For Environmental Management Science And Technology:

Biochar for Environmental Management Dr. Johannes Lehmann, Stephen Joseph, 2009 Biochar is the carbon rich product when biomass such as wood manure or crop residues is heated in a closed container with little or no available air It can be used to improve agriculture and the environment in several ways and its stability in soil and superior nutrient retention properties make it an ideal soil amendment to increase crop yields In addition to this biochar sequestration in combination with sustainable biomass production can be carbon negative and therefore used to actively remove carbon dioxide from the atmosphere with major implications for mitigation of climate change Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process This book is the first to synthesize the expanding research literature on this topic The book s interdisciplinary approach which covers engineering environmental sciences agricultural sciences economics and policy is a vital tool at this stage of biochar technology development This comprehensive overview of current knowledge will be of interest to advanced students researchers and professionals in a wide range of disciplines Provided by publisher

Biochar for Environmental Management Johannes Lehmann, Stephen Joseph, 2015-02-20 Biochar is the carbon rich product which occurs when biomass such as wood manure or crop residues is heated in a closed container with little or no available air It can be used to improve agriculture and the environment in several ways and its persistence in soil and nutrient retention properties make it an ideal soil amendment to increase crop yields In addition to this biochar sequestration in combination with sustainable biomass production can be carbon negative and therefore used to actively remove carbon dioxide from the atmosphere with potentially major implications for mitigation of climate change Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process The first edition of this book published in 2009 was the definitive work reviewing the expanding research literature on this topic Since then the rate of research activity has increased at least ten fold and biochar products are now commercially available as soil amendments This second edition includes not only substantially updated chapters but also additional chapters on environmental risk assessment on new uses of biochar in composting and potting mixes a new and controversial field of studying the effects of biochar on soil carbon cycles on traditional use with very recent discoveries that biochar was used not only in the Amazon but also in Africa and Asia on changes in water availability and soil water dynamics and on sustainability and certification The book therefore continues to represent the most comprehensive compilation of current knowledge on all aspects of biochar

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Biochar Applications in Agriculture and Environment Management Jay Shankar Singh,Chhatarpal Singh,2020-04-08 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 **Renewable Energy and Environmental Technology** Mo Jie Sun,Ying Jie Zhang,2013-10-31 Selected peer reviewed papers from the 2013 International Conference on Renewable Energy and Environmental Technology REET 2013 September 21 22 2013 Jilin China

Renewable Energy Mansour Al Qubeissi,Ahmad El-Kharouf,Hakan Serhad Soyhan,2020-09-09 The demand for secure affordable and clean energy is a priority call to humanity Challenges associated with conventional energy resources such as depletion of fossil fuels high costs and associated greenhouse gas emissions have stimulated interests in renewable energy resources For instance there have been clear gaps and rushed thoughts about replacing fossil fuel driven engines with

electric vehicles without long term plans for energy security and recycling approaches This book aims to provide a clear vision to scientists industrialists and policy makers on renewable energy resources predicted challenges and emerging applications It can be used to help produce new technologies for sustainable connected and harvested energy A clear response to economic growth and clean environment demands is also illustrated

Interactions of Biochar and Herbicides in the Environment Kassio Mendes, 2022-06-07 Interactions of Biochar and Herbicides in the Environment details how biochar interferes with herbicide behavior which includes processes such as sorption desorption runoff leaching and degradation in soil and weed control efficacy The book provides essential information on biochar applications in agriculture production systems and the physicochemical properties of biochar and herbicides and their interactions Features Elucidates the physicochemical characteristics of biochar that affect herbicide bioavailability in soil solution Demonstrates the remediation of herbicide contaminated waters with the addition of biochar to avoid environmental impacts to aquatic organisms Describes numerous agronomic and environmental benefits of biochar and its potential as a soil amendment to herbicide remediation Includes diagrams of herbicide behavior in the environment to further the user s knowledge Written by a team of international experts Interactions of Biochar and Herbicides in the Environment is a valuable resource for students and professionals involved with weed science and soil pollution and is of great interest to those concerned with pesticides and their fate in the environment

Biochar Balwant Singh, Marta Camps-Arbestain, Johannes Lehmann, 2017-03 Interest in biochar among soil and environment researchers has increased dramatically over the past decade Biochar initially attracted attention for its potential to improve soil fertility and to uncouple the carbon cycle by storing carbon from the atmosphere in a form that can remain stable for hundreds to thousands of years Later it was found that biochar had applications in environmental and water science mining microbial ecology and other fields Beneficial effects of biochar and its environmental applications cannot be fully realised unless the chemical physical structural and surface properties of biochar are known Currently many of the analytical procedures used for biochar analysis are not well defined which makes it difficult to choose the right biochar for an intended use and to compare the existing data for biochars Also in some instances the use of inappropriate procedures has led to erroneous or inaccurate values for biochars in the scientific literature Biochar A Guide to Analytical Methods fills this gap and provides procedures and guidelines for routine and advanced characterisation of biochars Written by experts each chapter provides background to a technique or procedure a stepwise guide to analyses and includes data for biochars made from a range of feedstocks common to all presented methods Discussion about the unique features advantages and disadvantages of a particular technique is an explicit focus of this handbook for biochar analyses Biochar is primarily intended for researchers postgraduate students and practitioners who require knowledge of biochar properties It will also serve as an important resource for researchers industry and regulatory agencies dealing with biochar

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