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BIOCHAR FOR ENVIRONMENTAL MANAGEMENT: SCIENCE AND TECHNOLOGY. This all encompassing book on biochar, Biochar, Biochar for Environmental Management, is edited by IBI Board members Johannes Lehmann and Stephen Joseph. The volume explores a diverse set of aspects needed to advance the application of biochar for environmental management. Authors with expertise in the basic sciences as well as economics, marketing and policy summarize our current knowledge and provide a roadmap for future research and ...

BIOCHAR FOR ENVIRONMENTAL MANAGEMENT: SCIENCE AND ...

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.

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In combination with sustainable biomass production, such a biochar sequestration can be carbon negative and therefore be used to actively remove carbon dioxide from the atmosphere, with obvious significance 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.

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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.

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In terms of market development, if biochar can be used as a soil amendment to improve soil quality and to increase crop production, this will increase its appeal (Day et al, 2004). In this regard, an obvious positive attribute of biochar is its nutrient value, supplied either directly by providing nutrients to plants or indirectly by improving soil quality, with consequent improvement in the efficiency of fertilizer use.

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Such a use of biochar is a significant advance over conventional organic matter management, as the biochar is more stable in soil and is better able to retain nutrients. In combination with sustainable biomass production, such a biochar sequestration can be carbon negative and therefore be used to actively remove carbon dioxide from the atmosphere, with obvious significance for mitigation of climate change.

Biochar for Environmental Management: Science and ...

Biochar for Environmental Management: Science, Technology and Implementation 2nd Edition. Biochar for Environmental Management: Science, Technology and Implementation. 2nd Edition. by Johannes Lehmann (Editor), Stephen Joseph (Editor) 5.0 out of 5 stars 8 ratings. ISBN-13: 978-0415704151.

Biochar for Environmental Management: Science, Technology ...

Biochar terminology The origin of biochar management and research The big picture Adoption of biochar for environmental management Physical Properties of Biochar Adriana Downie, Alan Crosky and Paul Munroe Introduction Biochars: Old and new Relevance of extended literature Caution on comparing data Origin of biochar structure Influence of molecular structure on biochar morphology Loss of structural complexity during pyrolysis Industrial processes for altering the physical structure of ...

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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.

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Applying biochar to forest soils along with natural or synthetic fertilizers has been found to increase the bioavailability and plant uptake of phosphorus (P), alkaline metals and some trace metals (Glaser et al, 2002; Lehmann et al, 2003; Steiner et al, 2007), but the mechanisms for these increases are still a matter of speculation.

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