

New Book Received

Air Pollution Prevention and Control: Bioreactors and Bioenergy. By Christian Kennes, Maria C. Veiga, Wiley-Blackwell, 2013; 570 Pages. Price US \$195.00, ISBN 978-1-119-94331-0

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In recent years, air pollution has become a major worldwide concern. Air pollutants can affect metabolic activity, impede healthy development, and exhibit carcinogenic and toxic properties in humans. Over the past two decades, the use of microbes to remove pollutants from contaminated air streams has become a widely accepted and efficient alternative to the classical physical and chemical treatment technologies. Air Pollution Prevention and Control: Bioreactors and Bioenergy focusses on these biotechnological alternatives looking at both the optimization of bioreactors and the development of cleaner biofuels.

Structured in five parts, the book covers:

Fundamentals and microbiological aspects

Biofilters, bioscrubbers and other end-of-pipe treatment technologies

Specific applications of bioreactors

Biofuels production from pollutants and renewable resources (including biogas, biohydrogen, biodiesel and bioethanol) and its environmental impacts

Case studies of applications including biotrickling filtration of waste gases, industrial bioscrubbers applied in different industries and biogas upgrading

Air Pollution Prevention and Control: Bioreactors and Bioenergy is the first reference work to give a broad overview of bioprocesses for the mitigation of air pollution. Primarily intended for researchers and students in environmental engineering, biotechnology and applied microbiology, the book will also be of interest to industrial and governmental researchers.

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