

Advances in Environmental Pollution Management

Wastewater Impacts and Treatment Technologies

Volume 1

Editors

Vinod Kumar

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Advances in Environmental Pollution Management

Wastewater Impacts and Treatment Technologies

Volume 1

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Mr. Pankaj Kumar (M.Sc., UGC-NET) is a young researcher working in the field of environmental pollution, bioremediation and bioenergy production. He received his master degree in Environmental Science from Gurukula Kangri Vishwavidyalaya, Haridwar with gold medal. He has qualified NTA-UGC NET (June 2019). He has published 17 research papers in national and international peer reviewed journals with a cumulative CiteScore of 44.10 and impact factor of 27.358. He has 2 edited book, 12 conferences abstracts, and 5 book chapters in his credit. He has been working as editorial secretary of the international journal Archives of Agricultural and Environmental Science.

Preface

Dear Readers,

As we all know, environmental pollution has appeared as a hard to defeat demon which is affecting the life of the planet earth. Nowadays, a huge volume of wastewater produced from various anthropogenic activities is really hard to manage. This wastewater is often dumped into an open environment without adequate treatments. In this, middle and low-income countries are majorly affected by wastewater pollution due to a lack of resources and efficient treatment technologies. Wastewater pollution creates disturbances to air, water, and soil. In the case of air, it may release various harmful, smelly pollutants which may be deposited in the living cells. Apart from that, water and soils are the major receivers of the uncontrolled disposal of liquid and contaminated wastes. Various harmful pollutants like high nutrient, heavy metals, radioactive elements, organic and inorganic compounds, pesticides, sediments, fertilizers, etc. are the major constituents responsible for water pollution. These constituents when enters the living systems in high doses, create adverse effects leading to the malfunctioning of cells. Various plants and animals including human beings are majorly affected by such pollutants which creates various diseases.

The presented book entitled “Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies” has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater. The book compilation included 14 selective chapters from nearly 33 authors. Each chapter contains detailed information on the proposed titles along with possible explanations using relevant tables and illustrations. The book chapters also present novel and eco-friendly approaches to wastewater treatment along with the generation of valuable resources like bioenergy, low-cost materials, etc.

Lastly, the editors are thankful to the contributors who submitted their precious findings and views related to the book theme and to make it succeeded. We hope that this book will help the readers in its best to provide them the relevant information.

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