

# Recent Advancements in Bioremediation of Metal Contaminants

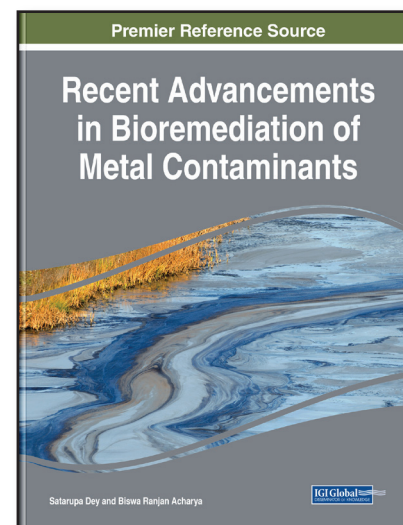
Part of the Advances in Environmental Engineering and Green Technologies  
Book Series

Satarupa Dey (Agricultural and Ecological Research Unit, Indian  
Statistical Institute, Kolkata, India) and Biswaranjan Ranjan Acharya  
(School of Computer Engineering, KIIT Deemed to be University, India)

## Description:

Pollution and ways to combat it have become topics of great concern for researchers. One of the most important dimensions of this global crisis is wastewater, which can often become contaminated with heavy metals such as lead, mercury, and arsenic, which are released from different industrial wastes, mines, and agricultural runoff. Bioremediation of such heavy metals has been extensively studied using different groups of bacteria, fungi, and algae, and has been considered as a safer, eco-friendly, and cost-effective option for mitigation of contaminated wasteland. The toxicity of water impacts all of society, and so it is of great importance that we understand the better, cleaner, and more efficient ways of treating water.

**Recent Advancements in Bioremediation of Metal Contaminants** is a pivotal reference source that explores bioremediation of pollutants from industrial wastes and examines the role of diverse forms of microbes in bioremediation of wastewater. Covering a broad range of topics including microorganism tolerance, phytoremediation, and fungi, the role of different extremophiles and biofilms in bioremediation are also discussed. This book is ideally designed for environmentalists, engineers, policymakers, academicians, researchers, and students in the fields of microbiology, toxicology, environmental chemistry, and soil and water science.



**ISBN:** 9781799848882

**Pages:** 300

**Copyright:** 2020

**Release Date:** June, 2020

**Hardcover:** \$195.00

**Softcover:** \$150.00

**E-Book:** \$195.00

**Hardcover + E-Book:** \$235.00

## Topics Covered:

Biofilms

Chromate Reductase Enzyme

Extremophiles

Fungi

Hexavalent Chromium Bioremediation

Industrial Waste

Microbial Enzymes

Microorganism Tolerance

Physical Remediation Practices

Phytoremediation

Pollution

**Subject:** Environmental, Agricultural, and Physical Sciences

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**Research Suitable for:** Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

### Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: [www.igi-global.com](http://www.igi-global.com)

Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA