1. Record Nr. UNINA9910555179303321

Titolo	Environmental and agricultural microbiology : applications for sustainability / / edited by Bibhuti Bhusan Mishra [and three others]
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , [2021] ©2021
ISBN	1-119-52672-8 1-119-52589-6 1-119-52674-4
Descrizione fisica	1 online resource (393 pages)
Disciplina	579
Soggetti	Sustainable agriculture Microbial ecology Agricultural microbiology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Table of Contents -- Title page -- Copyright -- Preface -- Part 1 MICROBIAL BIOREMEDIATION AND BIOPOLYMER TECHNOLOGY -- 1 A Recent Perspective on Bioremediation of Agrochemicals by Microalgae: Aspects and Strategies -- 1.1 Introduction -- 1.2 Pollution Due to Pesticides -- 1.3 Microalgal Species Involved in Bioremediation of Pesticides -- 1.4 Strategies for Phycoremediation of Pesticides -- 1.5 Molecular Aspects of Pesticide Biodegradation by Microalgae -- 1.6 Factor Affecting Phycoremediation of Pesticides -- 1.7 Benefit and Shortcomings of Phycoremediation -- 1.8 Conclusion and Future Prospects -- References -- 2 Microalgal Bioremediation of Toxic Hexavalent Chromium: A Review -- 2.1 Introduction -- 2.2 Effects of Hexavalent Chromium Toxicity -- 2.3 Chromium Bioremediation by Microalgae -- 2.4 Mechanism Involved in Hexavalent Chromium Reduction in Microalgae -- 2.5 Conclusion -- References -- 3 Biodetoxification of Heavy Metals Using Biofilm Bacteria -- 3.1 Introduction -- 3.2 Source and Toxicity of Heavy Metal Pollution -- 3.3 Biofilm Bacteria -- 3.4 Interaction of Metal and Biofilm Bacteria -- 3.5