1. Record Nr. UNINA9910830137703321

Titolo	Soil bioremediation : an approach towards sustainable technology / / edited by Dr. Javid A. Parray, Dr. Abeer Hashem Abd Elkhalek Mahmoud, Riyaz Sayyed
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , [2021] ©2021
ISBN	1-119-54793-8 1-119-54796-2 1-119-54797-0
Descrizione fisica	1 online resource
Disciplina	628.5
Soggetti	Bioremediation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	In situ bioremediation : An Eco-sustainable Approach for Decontamination of Polluted Sites / Shamsul Haq, Asma Absar Bhatti, Suhail Ahmad Bhat, Shafat Ahmad Mir and Ansar ul Haq -- Bioremediation : a green solution to avoid pollution of the environment / Muhammad Mahroz Hussain, Zia-Ur-Rahman Farooqi, Junaid Latif, Muhammad Umair Mubarak and Fazila Younas -- Laccase : The Blue copper Oxidase / Deepa Thomas -- Genome assessment : Functional gene identification involved in heavy metal tolerance and detoxification / Uttara Mahapatra, Ayantika Pal, Ajay Kumar Manna, Dijendra Nath Roy -- Bioremediation of heavy metal ions contaminated soil / Agnieszka Saeid, Liliana Cepoi, Magdalena Jastrzebska, and Philiswa N. Nomngongo -- Bioremediation of Dye Contaminated Soil / Manikant Tripathi, Shailendra Kumar, Durgesh Naraian Singh, Rajeev Pandey, Neelam Pathak, Hera Fatima-- Composting and bioremediation potential of thermophiles / Mohammad Yaseen Mir, Saima Hamid, Gulab Khan Rohela, Javid A Parray, Azra N Kamili -- Ecological perspectives of halophilic fungi and their role in bioremediation / Shekhar Jain, Devendra Kumar Choudhary, Ajit Varma -- Rhizobacteria mediated bioremediation : Insights and future perspectives / Vijay Kant Dixit, Sankalp Misra, Shashank Kumar Mishra, Namita Joshi, Puneet

Singh Chauhan -- Bioremediation potential of rhizobacteria associated with plants under abiotic metal Stress / Shrvan Kumar, Saroj Balbase, Asha Sinha, Mukesh Kumar Singh, Brajesh Kumar Mishra and Ravindra Kumar -- Molecular and Enzymatic Mechanism Pathways of Degradation of Pesticides Pollutants / Rangasamy Kirubakaran, Athiappan Murugan, Neginah Vijayasingh, Javid A Parray -- Bioremediation of heavy metals and other toxic substances by microorganisms / Dhaneshwar Padhan, Pragyan Paramita Rout, Ritesh Kundu, Samrat Adhikary , Purbasha Priyadarshini Padhi-- Trends in Heavy Metal Remediation: An Environmental Perspective / Baba Uqab, Sabeehah Rehman, Ruqeya Nazir, B A Ganai, Saleem Farooq, Gulam Jeelani Dar, Rubiya Dar, Javid Ahmad Parray.

Sommario/riassunto

"This book will discuss the effective and sustainable technological approaches for remediation of contaminates via eco-friendly usage of microbes. The primary focus will be on the role of microbes, particularly bacteria and fungi, for the degradation and removal of various xenobiotic substances in the environment. The book will also emphasize molecular approaches and biosynthetic pathways of microbes, and present gene and protein expression studies for bio-deterioration techniques. New innovative and sophisticated green technologies for waste minimization and waste control will be presented, as well as the potential of microbes for various techniques of bioremediation, including bio-sorption, bio-augmentation, bio-stimulation, to clean contaminated environments"--