Record Nr. UNINA9910463032303321 **Titolo** Bioremediation of mercury: current research and industrial applications // edited by Irene Wagner-Dobler Pubbl/distr/stampa Norfolk, England:,: Caister Academic Press,, [2013] ©2013 **ISBN** 1-908230-78-9 Descrizione fisica 1 online resource (161 p.) Disciplina 363.1791 Soggetti Mercury wastes Bioremediation Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Table of Contents; Contributors; Preface; Ch 01: Current Research for Nota di contenuto Bioremediation of Mercury; Ch 02: Mercury Pollution From a Former Chlor-alkali Factory in Paylodar, Kazakhstan: Characterization, Treatment, and Postdemercurization Monitoring; Ch 03: Vlora, an Abandoned PVC Factory at the Mediterranean Coast: Mercury Pollution, Threat to Humans, and Treatment Options; Ch 04: Land Use Change and Mercury Mobilization in the Amazon: The Madeira River Basin Case Study: Ch 05: Mercury in the Chlor-alkali Electrolysis Industry Ch 06: Long-term Operation of a Microbiological Pilot Plant for Cleanup of Mercury-contaminated Wastewater at Electrolysis Factories in EuropeCh 07: Microbiological Treatment of Air Scrubber Solutions From a Waste Incineration Plant and Other Mercury-contaminated Wastewater: A Technology in Search of an Application; Index Sommario/riassunto Mercury is a heavy metal with extreme toxicity, the ability to biomagnify, and long range atmospheric transport of its gaseous form. Past and present industrial uses of mercury have resulted in the pollution of soils, groundwater, rivers, and marine ecosystems worldwide - the clean-up of which, using standard technology, is either not feasible or is prohibitively costly. A low cost and environmentally friendly alternative is bioremediation: the use of microbes or plants

(phytoremediation) to remediate contaminated sites. In this timely book, established mercury experts review the latest resear