

1. Record Nr.	UNINA9910298294503321
Titolo	Heavy Metal Contamination of Soils : Monitoring and Remediation // edited by Irena Sherameti, Ajit Varma
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-14526-6
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (499 p.)
Collana	Soil Biology, , 1613-3382 ; ; 44
Disciplina	363.7063 570 630 631.4
Soggetti	Agriculture Environmental monitoring Soil science Soil conservation Monitoring/Environmental Analysis Soil Science & Conservation
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.
Nota di contenuto	Sources of heavy metals in soils -- Monitoring heavy metals in soils -- Adaption strategies of plants and bacteria in response to heavy metals -- Approaches for the remediation of contaminated soils -- Genetic engineering – a tool to cleaning up contaminated.
Sommario/riassunto	Following a description of the various sources and factors influencing the contents of heavy metal pollution in post-catastrophic and agricultural soils, subsequent chapters examine soil enzymes and eggs as bio-monitors, lead adsorption, the effects of arsenic on microbial diversity, and the effects of Mediterranean grasslands on abandoned mines. A third section focuses on the adaptation strategies used by plants and bacteria, such as Pinus sylvestris in industrial areas, and the rhizosphere in contaminated tropical soils and soil treated with sewage sludge. Further topics addressed include strategies of bioremediation, e.g. using transgenic plants as tools for soil remediation. This new

volume on heavy metals in soil will be of interest to researchers and scholars in microbial and plant biotechnology, agriculture, the environmental sciences and soil ecology.
