1. Record Nr. UNINA9910767566403321

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Titolo	Remediation of Heavy Metals / / edited by Inamuddin, Mohd Imran Ahamed, Eric Lichtfouse, Tariq Altalhi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-80334-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (460 pages)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7122 ; ; 70
Disciplina	628.3
Soggetti	Biochemistry Metal ions Refuse and refuse disposal Environmental chemistry Environmental management Analytical chemistry Metal Ions Waste Management/Waste Technology Environmental Chemistry Environmental Management Analytical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Analytical methods for the determination of heavy metals in water -- Chapter 2 Olive-oil waste for the removal of heavy metals from wastewater -- Chapter 3 Metal oxide composites for heavy metal ions removal -- Chapter 4 Two-dimensional materials for heavy metal removal -- Chapter 5 Membranes for heavy metals removal -- Chapter 6 Metal oxides for removal of heavy metal ions -- Chapter 7 Organic-Inorganic Ion Exchange Materials for Heavy Metal Removal from Water -- Chapter 8 Low-cost technology for heavy metal cleaning from water -- Chapter 9 Use of nanomaterials for heavy metal remediation -- Chapter 10 Ecoengineered approaches for the remediation of polluted river ecosystems -- Chapter 11 Ballast water definition, components, aquatic invasive species, control and management and treatment

	technologies -- Chapter 12 Source, pollution and remediation of carcinogenic hexavalent chromium from industrial, mining effluents -- Chapter 13 Pesticides in Drinking Water and Removal Techniques.- Chapter 14 Opportunities and challenges in heavy metal removal from water -- Chapter 15 Modification of Bagasse for Heavy Metal Removal form Water -- Chapter 16 Chelating materials for the removal of heavy metals from water -- Chapter 17 Sources of heavy metals pollution.
Sommario/riassunto	The book presents recent remediation techniques for heavy metal contamination in wastewater, with a focus on recently-developed and sustainable materials such as metal oxides and their composites, two-dimensional materials, organic-inorganic ion exchange materials, nanomaterials, bagasse, and olive-oil waste chelating materials. Chapters also describe the analysis of heavy metals, membranes for water treatment, sources and impact of heavy metals and opportunities and challenges in heavy metal remediation.