

1. Record Nr.	UNICAMPANIAVAN0058473
Autore	Zappella, Giuseppina
Titolo	Manuale del libro antico : guida allo studio e alla catalogazione / Giuseppina Zappella ; presentazione di Romeo De Maio
Pubbl/distr/stampa	Milano, : Bibliografica, [1996]
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Disciplina	002
Soggetti	Libri antichi
Lingua di pubblicazione	Italiano
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2. Record Nr.	UNINA9911057019603321
Autore	Kumar Nitish
Titolo	Chromium Toxicity : Challenges and Solutions / / edited by Nitish Kumar
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
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Collana	Earth and Environmental Science Series
Altri autori (Persone)	KumarUthaya
Disciplina	363.73
Soggetti	Pollution Environmental chemistry Environmental Chemistry
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Nota di contenuto	1 Chromium Toxicity: Source, Distribution, Challenges, and Remediation -- 2 Source and Dispersion of Chromium in the Environment -- 3 Regulations and Policies for Chromium Emissions to

the Environment -- 4 Exposure to Environmental Chromium – An Ongoing Challenge -- 5 Effects of Chromium Exposure on Human Health -- 6 Effects of Chromium: A Cellular and Neurological Perspective -- 7 Bioengineering Strategies for Chromium Remediation: Innovations and Environmental Applications -- 8 Role of Nanotechnology in Remediation of Chromium from the Environment -- 9 Phytoremediation of Chromium: A Review -- 10 Microbiome Mediated Remediation of Chromium -- 11 Integrated Strategies for Effective Remediation of Chromium-Contaminated Soils -- 12 Artificial Intelligence and IoT-driven Technologies for Environmental Chromium Toxicity Monitoring and Management -- 13 Biological Treatment Solutions Using Bioreactors for Chromium Removal from Environment -- 14 Chromium Removal from Aqueous Solutions Using Biodsorbents.

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### Sommario/riassunto

Chromium is widely used in many industrial processes, including metallurgy, printing, dyeing, tanning, and electroplating. However, effluents of these companies pollute the environment when they are not properly disposed of. This causes tissue damage and has deadly effects on humans, animals, plants, and the environment. It also has mutagenic, carcinogenic, and teratogenic effects. The two states of chromium that are most prevalent are trivalent (Cr (III)) and hexavalent (Cr (VI)). While trivalent chromium state is a valuable trace metal, and hexavalent state is non-essential and it causes dermatitis, lung cancer, stomach and kidney damage, as well as irritation of the eyes and respiratory tract. Chronic build-up of harmful chromium (VI) along food chains frequently results in biomagnification, which greatly increases the risk to human health. The amount of water needed for industrial purposes around the world has been growing exponentially. Water is an important resource, yet misuse of it and inadequate, delayed treatment frequently cause contamination and scarcity. It has been stated that a variety of water treatment techniques can remove harmful materials from bodies of water. These include enhanced oxidation techniques, membrane filtration, biological activated carbon, ion-exchange resins, biofiltration, and iminodiacetic acid-carbon nanotubes. Toxic heavy metal contaminants from wastewater have been studied using adsorption technologies such as covalent organic frameworks (COFs)-based materials, metal organic framework (MOF), porous geopolymers, biochar, chitosan-based adsorbents, 3D porous aerogels, agricultural and industrial wastes, nanomaterials, and biosorption. Bioremediation and phytoremediation, which use native microbes and plants, are an easy, affordable, and environmentally acceptable way to detoxify and remove Cr-pollutants in a variety of experimental situations.

Microorganisms and plants deal with hazardous metals by enzymatic oxidation/reduction, biosorption, and bioaccumulation. The biosorption method with microbial biomass is one of the bioremediation procedures that is said to be easy, quick, affordable, efficient, and successful on an industrial scale. This volume contains three sections. The origins and dispersion of chromium in soil, water, and plant ecosystems are discussed in the first section. Health hazards associated with chromium poisoning are explained in the second section. The third section discusses methods for reducing chromium toxicity from the environment using multidisciplinary approaches in a sustainable manner. The edited volume addresses the issues raised by the widespread chromium poisoning that has affected the world by bringing together a varied range of researchers in environmental science, sustainability, and health. The book clarifies this widespread environmental problem and suggests interdisciplinary alternatives for contaminant control.

3. Record Nr.	UNINA9911061893003321
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