

1. Record Nr.	UNINA9910484730503321
Titolo	Contaminants in Drinking and Wastewater Sources : Challenges and Reigning Technologies // edited by Manish Kumar, Daniel D. Snow, Ryo Honda, Santanu Mukherjee
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-15-4599-5
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (447 pages) : illustrations
Collana	Springer Transactions in Civil and Environmental Engineering, , 2363-7641
Disciplina	973.933092
Soggetti	Pollution Water Hydrology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Pharmaceuticals, Personal Care Products and Artificial Sweeteners in Asian Groundwater: A Review -- Affinity-Based Methods for the Analysis of Emerging Contaminants in Wastewater and Related Samples -- Natural Attenuation of Pharmaceuticals in the Aqueous Environment and Role of Photodegradation in Surface Water -- Impact and Fate of Microplastic in the Aquatic Environment -- Assessment of Groundwater Quality in Sri Lanka Using Multivariate Statistical Techniques -- Source and Fate of Perchlorate in the Environment: A Grave Concern for World -- Carcinogenic Nature of Emerging Contaminants: Havoc for Present and Gateway of Unhealthy Future -- Permeable Reactive Barrier: A Sustainable Groundwater Remediation Technology -- An Insight into Microbial Remediation of Hexavalent Chromium from Contaminated Water -- Current Understanding on Separation of Personal Care Products and Pharmaceuticals from Water -- Nanotechnology: An Efficient Technique of Contaminated Water Treatment and Bioremediation Methods of Water Contaminants -- Chlorophenols Dechlorination Water Treatment Using Ni-Iron Bimetallic Systems: Implications of the Degree of Chlorination, Nickel Coating, and Iron Oxide Phases.
Sommario/riassunto	This volume takes a multidisciplinary approach to study and evaluate

the global human vulnerability to the exposure of contaminants of emerging concern (CECs) in the natural environment. It provides a comprehensive resource on structurally diverse groups of chemical compounds that have adverse effects on the aquatic environment. It explores the global strength, environmental status, chemical risk assessment and management strategies of CECs with relevant modern techniques. The principle focus is on concurrent emerging water quality issues. It defines the impacts of the environmental exposure of trace concentrations of CECs and/or their metabolites and discusses possible technological advances to combat the emerging pollutants. It will be useful to researchers, multi-stakeholder expert groups, policymakers, and graduate students.
