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Titolo	Sustainable Management and Utilization of Sewage Sludge // edited by Vishnu D. Rajput, Ajar Nath Yadav, Hanuman Singh Jatav, Satish Kumar Singh, Tatiana Minkina
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ISBN	9783030852269 3030852261
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (427 pages)
Disciplina	628.38
Soggetti	Environmental chemistry Refuse and refuse disposal Sustainability Soil science Environmental monitoring Bioremediation Environmental Chemistry Waste Management/Waste Technology Soil Science Environmental Monitoring Environmental Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Sewage Sludge Management for Environmental Sustainability: An Introduction -- Sewage Sludge Management: Analytical Methods -- Bioleaching Approach for Enhancing Sewage Sludge Dewaterability -- Potential Role of Beneficial Microbes for Sustainable Treatment of Sewage Sludge and Wastewater -- Biological and thermo-chemical treatment technologies for sustainable sludge management -- Emerging Nutrient Recovery Technologies in Sewage Sludge Management -- Biostabilization of Sewage Sludge -- Sewage Sludge Treatment and involvement of microbes -- Role of Beneficial Microbes

in Sewage Sludge Management -- Sewage Sludge and Its Health Risk Assessment: Opportunities and Challenges -- Scope of Antibiotic Resistance Genes in Sewages Sludge for Therapeutic Uses -- Required Quality of Sewage Sludge as an Agricultural Soil Amendment -- Detoxification of Sewage Sludge by Natural Attenuation and Application as A Fertilizers -- Socio Economic Aspects of Sewage Sludge Use in Agriculture -- Sustainable use of sewage sludge in soil fertility and crop production -- Municipal Waste Management: Current Research and Future Challenges -- Management of Sewage Sludge for Environmental Sustainability -- Global Scenario of Sewage Sludge Management -- Biological and Thermo-Chemical Treatment Technologies for Sustainable Sludge Management.

Sommario/riassunto

This book is devoted to sewage sludge, its sustainable management, and its use and implications on soil fertility and crop production. The book traces the main chemical and biological properties of sewage sludge, and covers topics such as sewage sludge biostabilization and detoxification, biological and thermochemical treatment technologies, emerging nutrient recovery technologies, the role of microorganisms in sewage sludge management, and the sustainable use of sewage sludge as fertilizer in agriculture. The book offers a valuable asset for researchers, scholars and policymakers alike.
