Record Nr. UNINA9910682560503321 Minerals and waste / / edited by Mario Tribaudino, Daniel Vollprecht, **Titolo** Alessandro Pavese Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2023 **ISBN** 3-031-16135-1 Edizione [1st ed. 2023.] 1 online resource (VII, 295 p.): 79 illus., 62 illus. in color Descrizione fisica Earth and Environmental Sciences Library, , 2730-6682 Collana 333.7 Disciplina Soggetti Environmental geochemistry Mineral industries - Waste disposal Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Minerals and Wastes, an Overlooked Connection -- What is Waste, and Nota di contenuto How we Manage in Europe -- Thermodynamics and Kinetics of HTprocesses -- Bio-mineral Interactions and the Environment -- Metals: Waste and Recovery -- Mineralogy of Metallurgical Slags -- Bottom Ash: Production, Characterisation, and Potential for Recycling. In the field of waste disposal, recovery, and recycling, industrial Sommario/riassunto residues from ceramic and mining activities are just an assemblage of minerals. So is municipal waste, after removing the organic part in incinerators or after long-time disposal. In almost every case, a natural counterpart is present. Applying what is known from natural systems on waste assemblages is the key to predicting their fate, at a short and long time, and suggesting the best for high-temperature recycling. This book aims to bring the Earth Science community to the edge of waste management, offering background information, the basics of high and low-temperature geochemistry involved, and an overview of waste investigation connected to minerals. This book also addresses mineral tailings, incinerator bottom, fly ashes, metal slags, ceramic industry residue, and eventually sanitary issues. The primary readership will be graduate students and professionals in geological and environmental fields.