

1. Record Nr.	UNISALENT0991000780689707536
Titolo	5th Conference on Optimization Techniques : [proceedings] / edited by R. Conti and A. Ruberti
Pubbl/distr/stampa	Berlin ; New York : Springer-Verlag, 1973
ISBN	3540065830 (pt.1) 3540066004 (pt.2)
Descrizione fisica	2 v. : ill. ; 25 cm
Collana	Lecture notes in computer science, 0302-9743 ; 3 Lecture notes in computer science, 0302-9743 ; 4
Classificazione	AMS 49-06 AMS 90-06 AMS 93-06
Altri autori (Persone)	Conti, Roberto Ruberti, Antonio
Altri autori (Enti)	International federation for information processing : Technical committee on optimization Italia : Consiglio nazionale delle ricerche
Altri autori (Convegni)	IFIP Conference on Optimization Techniques <5. ; 1973 ; Rome>
Disciplina	515.64
Soggetti	Control theory - Congresses Mathematical optimization - Congresses System analysis - Congresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Held May 7-11, 1973; sponsored by the IFIP Technical Committee on Optimization (TC-7) and the Italian National Research Council. Includes bibliographies

2. Record Nr.	UNINA9910299392503321
Titolo	Agromining: Farming for Metals : Extracting Unconventional Resources Using Plants // edited by Antony van der Ent, Guillaume Echevarria, Alan J.M. Baker, Jean Louis Morel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-61899-7
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VIII, 312 p.)
Collana	Mineral Resource Reviews, , 2365-0559
Disciplina	570
Soggetti	Mines and mineral resources Geobiology Botanical chemistry Mineral Resources Biogeosciences Plant Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The Long Road to Developing Agromining/Phytomining -- Agronomy of 'Metal Crops' Used in Agromining -- Processing of Bio-ore to Products -- Life Cycle Assessment and Ecosystem Services of Agromining -- Global Distribution and Ecology of Hyperaccumulator Plants -- Physiology and Molecular Biology of Trace Element Hyperaccumulation -- New Tools for Hyperaccumulator Discovery and Understanding their Physiology -- Genesis and Behaviour of Ultramafic Soils and Consequences for Nickel Biogeochemistry.
Sommario/riassunto	This is the first book on global agromining/phytomining technology. It presents the complete metal farming or agromining chain; an emerging technology expected to be transformative in the extraction of resources of those elements not accessible by traditional mining techniques. Meeting the demand for critical minerals (rare earth elements, platinum group elements, nickel cobalt) is increasingly difficult in the 21st century due to resource depletion and geopolitical factors. Agromining uses hyperaccumulator plants as "metal crops" farmed on sub-

economic soils or mineral waste to obtain valuable elements. This book, which follows the metal farming chain, starts with the latest information on the global distribution and ecology of hyperaccumulator plants, biogeochemical pathways, the influence of rhizosphere microbes, as well as aspects of propagation and conservation of these unusual plants. It then presents the state of the art in new tools for identifying hyperaccumulator plants and for understanding their physiology and molecular biology. It goes on to describe the agronomy of “metal crops,” and opportunities for incorporating agromining into rehabilitation and mine closure, including test-cases of nickel, cobalt, selenium, thallium, rare earth elements and PGEs. Finally, it concludes with an overview of the latest developments in the processing of bio-ores and associated products. This book is edited and authored by the pioneers in the field who have been at the foreground of the development of agromining over the past three decades. It is timely as agromining is now at a pivotal point in its development with rapid expansion of activities in the field around the globe. As such it is of interest to environmental professionals in the minerals industry, government regulators and academics.
