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Soggetti	Biogeochemical prospecting Minerals
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Editor's Foreword; Preface; Chapter 1. Introduction; Setting the Scene; Biogeochemistry and Geobotany; Plant Evolution and Chemistry; Barrier Mechanisms; Chapter 2. Plant Function, Chemistry and Mineralogy; Plant Requirements; Element Uptake and Function; Root form and Controls on Element Uptake; Summary Comments on Chemical Requirements of Plants; Mineralogy of Plants; Chapter 3. Field Guide 1: Climatic and Geographic Zones; Selection of Plant Species; Summary Notes; Chapter 4. Field Guide 2: Sample Selection and Collection; General Considerations; Selection of Tissue Type Sample Collection Alternative Samples; Geozoology; Chapter 5. Survey Design and Comparisons with other Sample Media; Introduction; Survey Design; Scale of Survey; Comparisons with other Types of Geochemical Survey; Summary; Chapter 6. Sample Preparation and Decomposition; Introduction; Washing; Particle and Sample Size; Sample Decomposition; Dry Ashing; A Special Case: Vegetation from Sites Near Smelters or other Sites of Point-Source Metal Emissions; Wet Decomposition; Microwave Digestion; Selective Leaching; Fusions; Standard Reference Materials and Analytical Controls; Summary Chapter 7. Plant Analysis 'Fit for Purpose'; Analytical Techniques; Analytical Instrumentation; Summary; Chapter 8. The Eden Project - Source of a Biogeochemical Database; Introduction; Samples in the

Collection; Soil in the Biomes; Foliage Collection from the Biomes; Chapter 9. Biogeochemical Behaviour of the Elements; Introduction; The Importance of Data Quality; Elements in Plants and their Relevance to Mineral Exploration; Chapter 10. Data Handling and Analysis; First Estimation of the Data; Computer Software Tools; Data Analysis; Map Plots of Data Distributions Unusual Concentrations of Selected Elements Chapter 11. Case Histories; Gold; Platinum Group Metals/Nickel/Copper; Nickel; Uranium; Kimberlites; Chapter 12. Exploration Geomicrobiology - The New Frontier; Introduction; Significance of Micro-Organisms as Biogeochemical Agents; Methods for Identifying Micro-Organisms and Microbial Processes; Molecular Procedures; Amplification of Target Genes from Extracted DNA or RNA; Case Studies; Future Technologies for Bio-Prospecting; Conclusions; Chapter 13. A Look to the Future; Introduction; Hyperspectral Imagery in Relation to Biogeochemistry Exploration Geomicrobiology Forensic Biogeochemistry; Plant Mineralogy; Chemical Analysis; Concluding Remarks; References; Botanical Index; Subject Index; Contents of CD

Sommario/riassunto

Significant refinements of biogeochemical methods applied to mineral exploration have been made during more than twenty years since the last major publication on this technique. This innovative, practical and comprehensive text is designed as a field handbook and an office reference volume. It outlines the historical development of biogeochemical methods applied to mineral exploration, and provides details of what, how, why and when to collect samples from all major climatic environments with examples from around the world. Recent commercialization of sophisticated analytical technology per

2. Record Nr.	UNISA996654168903316
Autore	WALICKI, Andrzej
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Pubbl/distr/stampa	Stanford, Calif., : Stanford University Press, 1995
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Soggetti	Anarchia [e] Marxismo [e] Socialismo - Scienza della politica
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Formato	Risorsa elettronica
Livello bibliografico	Monografia