1. Record Nr. UNISA990003301960203316

Autore	HENDERSON, Paul
Titolo	Inorganic geochemistry / Paul Henderson
Pubbl/distr/stampa	Oxford : Pergamon Press, 1982
Descrizione fisica	XV, 353 p. : graf. tab. ; 23 cm
Collana	Pergamon International Library of Science, Technology, Engineering and Social Studies
Disciplina	551.9
Soggetti	Geochimica
Collocazione	551.9 HEN
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNISA996214912403316

Titolo	Rural history
Pubbl/distr/stampa	[Cambridge, England], : Cambridge University Press
ISSN	1474-0656
Disciplina	307.72
Soggetti	Rural conditions Sociology, Rural Sociologia rural Condicions rurals Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

3. Record Nr. UNINA9910992790003321

Autore	Shibukawa Masami
Titolo	Polymer-Based Aqueous-Two Phase Systems : Fundamentals and Applications / / by Masami Shibukawa
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819628889 9819628881
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (X, 156 p. 87 illus., 39 illus. in color.)
Disciplina	543.2
Soggetti	Separation (Technology) Materials - Analysis Environmental chemistry Chemistry, Inorganic Polymers Separation Science Characterization and Analytical Technique Environmental Chemistry Inorganic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to Extraction and Chromatography with Polymer-Based Aqueous Two-Phase Systems -- Structures and Properties of the Aqueous Polyethylene Glycol Phases as Extraction Media in ATPS -- Effects of the Background Phase-Forming Electrolytes on the Partition of Ionic Solutes in PEG/Salt ATPS -- Trace Analyses of Metal Ions in Environmental Samples Based on the Separation and Preconcentration by Extraction with ATPS -- Multistep pH-Peak-Focusing Countercurrent Chromatography -- Aqueous Liquid Chromatography with Hydrophilic Polymer Gel Columns -- ATPS Chromatographic Techniques for Separation and Enrichment of Metal Ions and Inorganic Anions: Multistep pH-Peak-Focusing Liquid Chromatography and Partition/Ion-Exclusion Chromatographic Ion Stacking.
Sommario/riassunto	This book presents the fundamentals of the separation mechanism of

the environmentally benign polymer-based aqueous two-phase systems (ATPS) and applications of ATPS to separation and/or enrichment of inorganic compounds with batch extraction and chromatographic techniques. It first describes the structures of the aqueous polymer phases formed in the ATPS. Then the effect of the background electrolyte on the distribution of ionic solutes is discussed. A subsequent chapter shows the applications of the ATPS batch extraction to analyses of trace metal ions in environmental samples. In the following chapter, the author introduces multistep pH-peak-focusing countercurrent chromatography developed for the separation and enrichment of metal ions with a PEG/Na2SO4 ATPS. Lastly, the author explains that liquid chromatography (LC) with hydrophilic polymer gel columns using an aqueous solution as the mobile phase is regarded as an efficient separation and enrichment technique based on ATPS, and describes multi-step pH peak focusing LC and partition/ion-exclusion chromatographic ion stacking (PIEC ion stacking), newly developed ATPS chromatographic techniques for separation and enrichment of metal ions and inorganic anions in detail. This book helps researchers and engineers design and implement appropriate environmentally benign analytical methods for environmental analyses, reagent manufacturers, metal refining industry, and so on.