

# Modern Methods for the Separation of Rarer Metal Ions

Korkisch, Johann

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# Modern Methods For The Separation Of Rarer Metal Ions

**Ronald W. Rousseau**



## **Modern Methods For The Separation Of Rarer Metal Ions:**

Modern Methods for the Separation of Rarer Metal Ions Johann Korkisch, 2013-10-22 Modern Methods for the Separation of Rarer Metal Ions describes several separation methods of more than 50 elements This book is divided into 19 chapters that include separation methods involving the actinide elements rare earths and many rarer elements of the main and transition groups of the periodic table The introductory chapter discusses the principles of the separation techniques presented in this book The remaining chapters explore the application of specific separation methods such as ion exchange chromatography liquid liquid extraction distillation and coprecipitation The approach of each chapter is a presentation of separation principle of an element first followed by numerous examples of applications to the solution of practical problems encountered in separation chemistry Chapters 2 and 3 examine the separations involving the actinides and rare earth elements using ion exchange and liquid liquid extraction These are followed by chapters dealing with separations of other rarer elements which have been arranged according to their position in the periodic table These elements are Li Rb Cs Fr Be Ra Ga In Tl Ge Ag Au Ti Zr Hf V Nb Ta Mo W Tc Re and the platinum metals This book will be of great use to analytical chemists

**Modern Methods for the Separation of Rarer Metal Ions** Johann Korkisch, 1968 *Extraction Chromatography*, 1975-06-01

*Extraction Chromatography* **Ion Chromatography** James S. Fritz, Douglas T. Gjerde, 2008-07-11 Reflecting the tremendous development of ion chromatography in recent years the best selling book by Fritz and Gjerde has now gone into a third edition This is essentially a new book describing materials principles and methods of ion chromatography in a clear and concise style The book can be used both as an introduction for the new comer and as a practical guide for method development and applications for the experienced user It contains handy tables with useful data e g on detection and elution conditions With this new edition the scope has been enlarged to include capillary electrophoresis as well as chemical speciation The readers of this book will profit from the authors background and experience both in education and industrial application

Nuclear and Radiochemistry, 2 Volume Set Jens-Volker Kratz, Karl Heinrich Lieser, 2013-12-04 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is a valuable resource for both newcomers as well as established scientists in the field

**Handbook of Separation Process Technology** Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of

historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them

**Technetium in the Environment** G. Desmet, C. Myttenaere, 2012-12-06 Since the discovery of technetium in 1937 by Perrier and Segre technetium 99 and technetium 99m have become most familiar in the specialised literature the behaviour of the former being of concern regarding its health impact the latter having been used intensively in medical tests for many years The knowledge of the characteristics and behaviour of this element in nature is currently increasing exponentially It has become clear however that there is still a serious shortage of information needed to assess properly its burden and impact on man and his environment Technetium may indeed be released from nuclear installations or as a waste product from medical applications It is generally considered to be highly mobile as the anion  $TcO_4^-$  but it is also suspected to be readily reduced in soils and metabolised in living beings into lower oxidation states The seminar was planned to analyse thoroughly the experimental results obtained up to now and to make recommendations of specific issues requiring further research This book presents the papers of the different sessions in the order of presentation and the conclusions drawn by three discussion groups which dealt separately with problems of sources and distribution of man made technetium and its radiological consequences the chemical behaviour of technetium in different ecosystems biochemical reactions and binding with macromolecules in various life systems

vi Preface The editors together with the Programme Committee of the Seminar wish to express their gratitude to the chairmen of the different sessions for their summary of the group discussions

**Nuclear and Radiochemistry** Karl Heinrich Lieser, 2008-09-26 This handbook gives a complete and concise description of the up to date knowledge of nuclear and radiochemistry and applications in the various fields of science It is based on teaching courses and on research for over 40 years The book is addressed to any researcher wishing sound knowledge about the properties of matter be it a chemist a physicist a medical doctor a mineralogist or a biologist They will all find it a valuable source of information about the principles and applications of nuclear and radiochemistry Research in radiochemistry includes Study of radioactive matter in nature investigation of radioactive transmutations by chemical methods chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis Mossbauer spectroscopy and related methods behaviour of natural and man made radionuclides in the environment dosimetry and radiation protection All subjects are presented clearly and comprehensibly and in logical sequence Detailed derivations of equations are avoided and relevant information is compiled in tables The recent edition of the multi coloured Karlsruhe Chart of the Nuclides is included Clearly a standard work by an author with extensive experience in research and teaching

*Nuclear Methods in Mineralogy and Geology* Attila Vértés, Sándor Nagy, Károly Süvegh, 2012-12-06 This book appears a century after the discovery of radioactivity It was in 1896 when Henri Becquerel reported his first results about the penetrating radiation which could darken the packed photographic plates The initial fascination of radioactivity e.g. the discovery of new

radioactive elements the first real description of the structure of atoms and their nuclei the applications of radiotracers the high sensitivity of activation analysis etc was followed by the use of atomic bomb in 1945 The mushroom cloud became a symbol of destructive nuclear power And even nuclear energy production which provides about 20% of the world s electricity is overshadowed by radioactive waste However the latest results suggest that the Accelerator Driven Transmutation Technology ADTT will solve this problem since this technique can decrease the lifetime of the fission products comparatively to the human lifespan Practical control of fusion may also be possible in the first decades of the next millennium

**CRC Handbook of Ion Exchange Resins** Johann Korkisch,1988-12-31 The six volume CRC Handbook of Ion Exchange Resins reviews the application of ion exchange resins to inorganic analytical chemistry Extracted from over 6 000 original publications it presents the information in over 1 000 tables complemented by concise descriptions of analytical methods involving virtually all the elements of the periodic table Also the ion exchange characteristics of the elements as well as other important information required by analysis using ion exchange resins are presented in separate tables The methods that allow the multi element analysis of complex matrices are emphasized This work includes a general discussion of the theoretical instrumental and other principles underlying the various applications of ion exchange resins in inorganic analytical chemistry with special attention focused on techniques based on ion chromatography

*Ion Exchange and Solvent Extraction* Jacob A. Marinsky, Yitzhak Marcus,1985-03-07 Volume 9 of this series continues in the tradition of its highly acclaimed predecessors containing current knowledge and results in ion exchange Presenting theoretical and applied information this comprehensive reference provides authoritative interdisciplinary coverage of contemporary topics such as kinetics and dynamics of the interaction of organic ions with various ion exchange resins the application of ion exchange techniques to the resolution of a spectrum of technical problems the influence of humic and fulvic acids on the composition of natural waters water sorption properties of ion exchangers and much more The Ion Exchange and Solvent Extraction Series treats ion exchange and solvent extraction both as discrete topics and as a unified multidisciplinary study presenting new insights for researchers in many chemical and related fields The volumes in this now classic series must be owned by biophysicists biochemists membrane researchers radiochemists electrochemists analytical physical coordination and environmentalists and chemical engineers

Book jacket **Ion Exchange Technologies** Ayben Kilislioglu,2012-11-07 This book contains information about the technological development of ion exchange in their application for industrial processes Widely used and well known fields of ion exchange like chromatography and electromembrane technology are described in this book with experimental details Designing new materials for nanotechnology and nanomaterials as ion exchanger are also explained by experimental proofs Ion exchange book is suitable not only for postgraduate students but also for researchers in chemistry biochemistry and chemical technology

**The Cumulative Book Index** ,1969 A world list of books in the English language

**Nuclear and Radiochemistry** Jens-Volker Kratz,2022-01-04 Nuclear and Radiochemistry The leading resource

for anyone looking for an accessible and authoritative introduction to nuclear and radiochemistry In the newly revised Fourth Edition of *Nuclear and Radiochemistry Fundamentals and Applications* distinguished chemist Jens Volker Kratz delivers a two volume handbook that has become the gold standard in teaching and learning nuclear and radiochemistry The books cover the theory and fundamentals of the subject before moving on the technical side of nuclear chemistry with coverage of nuclear energy nuclear reactors and radionuclides in the life sciences This latest edition discusses the details and impact of the Chernobyl and Fukushima nuclear disasters as well as new research facilities including FAIR and HIM It also incorporates new methods for target preparation and new processes for nuclear fuel recycling like EURO GANEX Finally the volumes extensively cover environmental technological advances and the effects of radioactivity on the environment Readers will also find An accessible and thorough introduction to the fundamental concepts of nuclear physics and chemistry including atomic processes classical mechanics relativistic mechanics and the Heisenberg Uncertainty Principle Comprehensive explorations of radioactivity in nature radioelements radioisotopes and their atomic masses and other physical properties of nuclei Practical discussions of the nuclear force nuclear structure decay modes radioactive decay kinetics and nuclear radiation In depth examinations of the statistical considerations relevant to radioactivity measurements Written for practicing nuclear chemists and atomic physicists *Nuclear and Radiochemistry Fundamentals and Applications* is also an indispensable resource for nuclear physicians power engineers and professionals working in the nuclear industry

**Nuclear Science Abstracts**, 1976 *Nuclear and Radiochemistry* Gerhart Friedlander, Joseph W. Kennedy, Edward S. Macias, Julian M. Miller, 1981-08-10 *Introduction to Radiation Chemistry* Third Edition J W T Spinks and R J Woods The only single source guide to radiation chemistry has now been expanded to include new material on applied radiation chemistry and experimental methods as well as gaseous and solid systems Other enhancements include broadened coverage of chemical reactions initiated by high energy and their commercial applications as well as new topics related to kinetics and experimental procedures The Third Edition features numerical data in SI units simplifying most radiation chemical calculations an expanded problem section and key references updated to reflect recent research 1990 0 471 61403 3 574 pp

*The Elements Beyond Uranium* Glenn T Seaborg and Walter D Loveland Written by the team of Nobel Laureate Glenn Seaborg an active participant in the discovery of transuranium elements and leading chemist Walter Loveland here is a unique inside account of the discovery of these elements as well as the first definitive look at their chemical physical and nuclear properties The book contains detailed discussions of nuclear synthesis reactions experimental techniques natural occurrence superheavy elements practical applications and predictions for the future as well as such special features as excerpts from original notebooks pictures of element discovery teams and up to date tables of nuclear properties 1990 0 471 89062 6 359 pp

**Concise Polymeric Materials Encyclopedia** Joseph C. Salamone, 1998-08-28 *Concise Polymeric Materials Encyclopedia* culls the most used widely applicable articles from the *Polymeric Materials Encyclopedia* more than 1

100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field The Chemistry of Vanadium, Niobium and Tantalum R. J. H. Clark, D. Brown, 2013-10-08 The Chemistry of Vanadium Niobium and Tantalum gives a comprehensive discussion on the discovery origin and metallurgical aspects of vanadium niobium and tantalum A section is also focused on the nuclear properties as well as the physical and chemical properties of each compound The history and distribution of vanadium niobium and tantalum are explored along with the purification and extraction procedures of the said elements The book also explores the derivative compounds such as the alloys hydride halides and oxides Another section of the book is focused on the physical and chemical modifications of the elements that generate such by products as the cyanides hydroxides and sulfides Different complexes of the elements such as halogeno and oxyhalogeno complexes are discussed in detail The organometallic chemistry of niobium tantalum and vanadium are also identified The book will be a useful tool for chemical engineers chemical scientists and students in the field of chemistry *Radiogenic Age and Isotopic Studies* Geological Survey of Canada, 1988 Annual collection of reports presenting data from the Geochronology Section of the Lithosphere and Canadian Shield Division Reports make full presentation of the data relate these to field settings and make comparatively short interpretations Other geochronological and isotope data produced in the laboratory but published in outside journals or separate GSC publications are summarized at the end of the report Coverage includes advances and or reviews of analytical techniques and regional metalogenic and specific mineral deposit studies

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