

ACS SYMPOSIUM SERIES 868

# Radioanalytical Methods in Interdisciplinary Research

## Fundamentals in Cutting-Edge Applications



EDITED BY  
Carola A. Laue and Kenneth L. Nash

# Radioanalytical Methods In Interdisciplinary Research

**Rafael Luque, Pepijn Prinsen**



## **Radioanalytical Methods In Interdisciplinary Research:**

*Radioanalytical Methods in Interdisciplinary Research* Carola A. Laue, Kenneth L. Nash, 2004 This book discusses the applications of radioanalytical chemistry across a wide spectrum of interdisciplinary science and technology This book also explores the history of the field current trends and future directions

**Imaging and Radioanalytical Techniques in Interdisciplinary Research** Faycal Kharfi, 2013-03-13 The overall goal of this book is to promote research and development of imaging and radioanalytical techniques by publishing high quality chapters in this rapidly growing interdisciplinary field This book discusses the principles and applications of imaging and radioanalytical techniques across a wide spectrum of interdisciplinary science technology and medicine where these techniques are expected to make significant difference and contribution It also explores the history of the field current trends and future directions The book focuses mainly on cutting edge applications and associated equipments and methods such as instrumentation systems and computing hardware software The primary target audience for this book includes students researchers clinicians and professionals who are interested in medical and ground penetrating radar GPR imaging and radioanalytical techniques

**Radioanalytical Chemistry** Bernd Kahn, 2007-11-08 This work is a comprehensive and much needed tool for the teaching and practice of radioanalytical chemistry It encompasses a concise theoretical background laboratory work and data interpretation It also contains chapters on the most current and visible applications of radioanalytical techniques Its emphasis on the practical aspects on laboratory setup and operation make it a valuable tool for training professionals and students alike

**Advanced Technologies and Applications of Neutron Activation Analysis** Lylia Hamidatou, 2019 This book highlights the advanced technologies and applications of neutron activation analysis NAA It discusses the latest developments influencing the performance and utility of different NAA techniques across wide areas of applications nuclear technology industry medicine clinical investigations biology geochemistry soil contamination waste management diet lifestyle and health cosmology archeology forensic science etc The overall goal of the book is to promote innovation and development of NAA techniques technologies and nuclear culture by presenting high quality chapters with numerous results at both national and international levels The book will serve as a source for graduate and postgraduate students in nuclear sciences and applications and nuclear analytical techniques experienced practitioners who want to implement or use other varieties of NAA professional technicians and analysts users of NAA and other stakeholders who wish to better understand NAA techniques

**Developments in Surface Contamination and Cleaning: Types of Contamination and Contamination Resources** Rajiv Kohli, Kashmiri L. Mittal, 2016-11-21 *Developments in Surface Contamination and Cleaning Volume Ten* provides a state of the art guide to the current knowledge on the behavior of film type and particulate surface contaminants and their cleaning methods This newest volume in the series discusses mechanisms of particle adhesion particle behavior in liquid systems and metallic contamination and its impact In addition the book includes a discussion of the types of

contaminants with resources to deal with them and information on environmental issues related to surface contamination and cleaning Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning that also includes information on cleaning at the micro and nano scales Written by established experts in the contamination field that provide an authoritative resource Presents a comprehensive review of new trends in contaminants and resources for dealing with those contaminants Contains detailed case studies to illustrate various scenarios

*Handbook of Radioactivity Analysis* Michael F. L'Annunziata, 2012-08-16 Authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity **Lanthanides Series Determination**

**by Various Analytical Methods** Mohammad Reza Ganjali, Vinod Kumar Gupta, Farnoush Faridbod, Parviz Norouzi, 2016-02-25 Lanthanides Series Determination by Various Analytical Methods describes the different spectroscopic and electrochemical methods used for the determination and measurement of lanthanides Numerous examples of determination methods used in real sample analysis are gathered and explained and the importance of lanthanides as applied in chemical industry agriculture clinical and pharmaceutical industry and biology is discussed with many applications and recent advantages given Written by world leading experts in research on lanthanide determination Discusses determination methods that range from very advanced and expensive techniques to simple and inexpensive methods A single source of information for a broad collection of lanthanide detection techniques and applications Includes a complete list of reports and patents on lanthanide determination Discusses both advantages and disadvantages of each determination method giving a well balanced overview **Advanced Separation Techniques for Nuclear Fuel Reprocessing and Radioactive Waste Treatment**

Kenneth L Nash, Gregg J Lumetta, 2011-03-15 Advanced separations technology is key to closing the nuclear fuel cycle and relieving future generations from the burden of radioactive waste produced by the nuclear power industry Nuclear fuel reprocessing techniques not only allow for recycling of useful fuel components for further power generation but by also separating out the actinides lanthanides and other fission products produced by the nuclear reaction the residual radioactive waste can be minimised Indeed the future of the industry relies on the advancement of separation and transmutation technology to ensure environmental protection criticality safety and non proliferation i e security of radioactive materials by reducing their long term radiological hazard Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment provides a comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Part one covers the fundamental chemistry engineering and safety of radioactive materials separations processes in the nuclear fuel cycle including coverage of advanced aqueous separations engineering as well as on line monitoring for process control and safeguards technology Part two critically reviews the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment The section includes discussions of advanced PUREX processes the UREX concept fission product separations and combined systems for simultaneous

radionuclide extraction Part three details emerging and innovative treatment techniques initially reviewing pyrochemical processes and engineering highly selective compounds for solvent extraction and developments in partitioning and transmutation processes that aim to close the nuclear fuel cycle The book concludes with other advanced techniques such as solid phase extraction supercritical fluid and ionic liquid extraction and biological treatment processes With its distinguished international team of contributors Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment is a standard reference for all nuclear waste management and nuclear safety professionals radiochemists academics and researchers in this field A comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Details emerging and innovative treatment techniques reviewing pyrochemical processes and engineering as well as highly selective compounds for solvent extraction Discusses the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment

**Imaging and Radioanalytical Techniques in Interdisciplinary Research** Faycal Kharfi, 2013 The overall goal of this book is to promote research and development of imaging and radioanalytical techniques by publishing high quality chapters in this rapidly growing interdisciplinary field This book discusses the principles and applications of imaging and radioanalytical techniques across a wide spectrum of interdisciplinary science technology and medicine where these techniques are expected to make significant difference and contribution It also explores the history of the field current trends and future directions The book focuses mainly on cutting edge applications and associated equipments and methods such as instrumentation systems and computing hardware software The primary target audience for this book includes students researchers clinicians and professionals who are interested in medical and ground penetrating radar GPR imaging and radioanalytical techniques

*Neutrons and Synchrotron Radiation in Engineering Materials Science* Peter Staron, Andreas Schreyer, Helmut Clemens, Svea Mayer, 2017-01-03 Retaining its proven concept the second edition of this ready reference specifically addresses the need of materials engineers for reliable detailed information on modern material characterization methods As such it provides a systematic overview of the increasingly important field of characterization of engineering materials with the help of neutrons and synchrotron radiation The first part introduces readers to the fundamentals of structure property relationships in materials and the radiation sources suitable for materials characterization The second part then focuses on such characterization techniques as diffraction and scattering methods as well as direct imaging and tomography The third part presents new and emerging methods of materials characterization in the field of 3D characterization techniques like three dimensional X ray diffraction microscopy The fourth and final part is a collection of examples that demonstrate the application of the methods introduced in the first parts to problems in materials science With thoroughly revised and updated chapters and now containing about 20% new material this is the must have in depth resource on this highly relevant topic

**High Performance Chelation Ion Chromatography** Pavel N. Nesterenko, Phil Jones, Brett Paull, 2011 Established ion

chromatography techniques have changed little since the 1980s but a new technique high performance chelation ion chromatography HPCIC has revolutionized the area HPCIC enables a much greater range of complex samples to be analyzed and this is the first comprehensive description of its use in the trace determination of metals Written by world leaders in the field it is aimed at professionals postgraduates chromatographers analytical chemists and industrial chemists The book describes the underlying principles which give rise to the special selectivities that can be chosen for separating specific groups of metals It also covers the latest research and gives many examples of its application to real samples The very latest developments in detection techniques are included showing that HPCIC can rival atomic spectroscopic techniques such as ICP MS The detailed description of the fundamental principles controlling the separation of trace metals using chelating substrates is unique to this book It shows how HPCIC differs from the commonly used simple ion exchange techniques and how these chelation characteristics give rise to a much more useful and versatile metal separation system Readers will also be interested in the analysis of extremely difficult matrices such as saturated brines easily achieved by HPCIC but requiring very complex multi column systems using other ion chromatography methods

#### **Developments in Surface**

**Contamination and Cleaning, Volume 12** Rajiv Kohli, K.L. Mittal, 2019-06-08 Developments in Surface Contamination and Cleaning Methods for Assessment and Verification of Cleanliness of Surfaces and Characterization of Surface Contaminants Volume Twelve the latest release in the Developments in Surface Contamination and Cleaning series provides best practices on determining surface cleanliness Chapters include an introduction to the nature and size of particles a discussion of cleanliness levels detailed coverage of measurement methods characterization methods and analytical methods for evaluating surfaces and an overview of analysis methods for various contaminants As a whole the series creates a unique and comprehensive knowledge base for those in research and development in a variety of industries Manufacturing quality control and procurement specification professionals in the aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography industries will find this book to be very helpful In addition researchers in an academic setting will also find these volumes excellent source books Includes an extensive listing with a description of available methods for the assessment of surface cleanliness Provides a single source of information on methods for verification of surface cleanliness Serves as a guide to the selection assessment and verification of methods for specific applications

*Environmental Challenges and Medicinal Plants* Tariq Aftab, 2022-04-19 Medicinal plants supply the ever growing needs of humankind for natural chemicals such as pharmaceuticals nutraceuticals agrochemicals and chemical additives These plants contain bioactive secondary metabolites which possess antimalarial anthelmintic anti inflammatory analgesic antimicrobial antiarthritic antioxidant antidiabetic antihypertensive anticancer antifungal antispasmodic cardioprotective antithyroid and antihistaminic properties Secondary metabolites play a major role in the adaptation of plants to the changing environment and stress condition as they are affected by both biotic and abiotic stress Humans rely on

medicinal plants for various needs since ancient time and their population still seems enough for fulfilling our demands. However, in the foreseeable future, we will be forced to think about the accessibility of resources for future generations. For these reasons, we must look for alternative sustainable options of resources which can protect these immensely important medicinal plants from various stresses induced by challenging environment. Evolving eco friendly methodologies and mechanisms to improve these plants responses to unfavorable environmental circumstances is important in creating significant tools for better understanding of plant adaptations to various abiotic stresses and sustaining the supply of pharmaceuticals as global climate change intensifies. One of the great challenges in the near future will be the sustainable production of medicinal plants under increasing adverse effects of climate change. A combination of adverse demographic factors and climatological perturbations is expected to impact food and pharmaceutical production globally. Despite the induction of several tolerance mechanisms, medicinal plants often fail to survive under environmental extremes. To ensure their sustainable production under adverse conditions, multidisciplinary approaches are needed and useful leads are likely to emerge. However, improving plants performance under restrictive growth conditions requires a deep understanding of the molecular processes that underlie their extraordinary physiological plasticity. This edited volume emphasizes the recent updates about the current research on medicinal plants covering different aspects related to challenges and opportunities in the concerned field. This book is an attempt to bring together global researchers who have been engaged in the area of stress signaling crosstalk and mechanisms of medicinal plants. The book will provide a direction towards implementation of programs and practices that will enable sustainable production of medicinal plants resilient to challenging environmental conditions. Moreover, this book will instigate and commence readers to state of the art developments and trends in this field.

Salt Crystallization in Porous Media Hannelore Derluyn, Marc Prat, 2024-09-24. The crystallization of one or multiple salts in porous media, rocks, soils, building materials, etc. is a subject of major interest in connection with numerous issues such as soil salinization, evaporation, CO<sub>2</sub> injection into saline aquifers, the durability of building materials, and the preservation of our cultural heritage. *Salt Crystallization in Porous Media* provides an interdisciplinary review of the key scientific knowledge required to understand this field of research and illustrates the issues involved through a series of concrete examples. This book has been written for students completing their Master's level degree or higher in the field, as well as researchers and engineers interested in this research. It may also be of interest to a wider readership as certain sections can be used to illustrate basic concepts reaching beyond the subject of salt crystallization itself. *Machine Learning Paradigms* George A. Tsihrintzis, Dionisios N. Sotiropoulos, Lakhmi C. Jain, 2018-07-03. This book explores some of the emerging scientific and technological areas in which the need for data analytics arises and is likely to play a significant role in the years to come. At the dawn of the 4th Industrial Revolution, data analytics is emerging as a force that drives towards dramatic changes in our daily lives, the workplace, and human relationships. Synergies between physical, digital, biological, and energy sciences and

technologies brought together by non traditional data collection and analysis drive the digital economy at all levels and offer new previously unavailable opportunities The need for data analytics arises in most modern scientific disciplines including engineering natural computer and information sciences economics business commerce environment healthcare and life sciences Coming as the third volume under the general title MACHINE LEARNING PARADIGMS the book includes an editorial note Chapter 1 and an additional 12 chapters and is divided into five parts 1 Data Analytics in the Medical Biological and Signal Sciences 2 Data Analytics in Social Studies and Social Interactions 3 Data Analytics in Traffic Computer and Power Networks 4 Data Analytics for Digital Forensics and 5 Theoretical Advances and Tools for Data Analytics This research book is intended for both experts researchers in the field of data analytics and readers working in the fields of artificial and computational intelligence as well as computer science in general who wish to learn more about the field of data analytics and its applications An extensive list of bibliographic references at the end of each chapter guides readers to probe further into the application areas of interest to them

*Treatise on Geochemistry*, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

*Nuclear Medicine in Endocrine Disorders* George Barberio Coura-Filho, Mayara Torres Silva de Oliveira, Ana Luiza Morais de Campos, 2022-10-31 This book presents up to date information on the general principles of diagnostic and therapeutic nuclear medicine in the context of endocrinology The content is divided into six parts Section I examines general aspects of radiopharmaceuticals scintigraphy single photon emission computed tomography SPECT positron emission tomography PET radionuclide therapies and radioguided surgery Section II discusses diagnostic applications in benign thyroid diseases and



evaluation of thyroid nodules Section III gives an overview of the management of parathyroid diseases Section IV presents diagnostic techniques in well differentiated thyroid cancer Section V addresses procedures and therapy in adrenal benign and malignant disorders pheochromocytomas and paragangliomas Lastly the diagnosis and treatment of neuroendocrine tumors are featured in Section VI Nuclear Medicine in Endocrine Disorders Diagnosis and Therapy is intended for non specialists in nuclear medicine working in the field of endocrinology and is also a valuable resource for researchers and students

**Nanoparticle Design and Characterization for Catalytic Applications in Sustainable Chemistry** Rafael Luque, Pepijn Prinsen, 2019-05-10 Nanoparticles exhibit a range of different properties when compared to bulk materials Their high surface area to volume ratio makes them particularly attractive for use as catalysts and recent years have seen an explosion of research in this area The ability to fine tune the size and structure of nanoparticles means that it is possible to design catalytic materials for improved activity or specificity As catalysis is one of the key technologies for more sustainable production of both chemicals and energy the past few years have seen increasing numbers of nanomaterials reported for these applications Depending on the application a number of different catalyst synthesis and optimization protocols can be used This book provides comprehensive links between the design and fabrication method for nanoparticles and their catalytic performance activity selectivity and stability in various applications Presenting an introduction to the concept of catalyst design and recent developments in the preparation and characterisation of nanomaterials followed by several chapters on the design of catalysts for specific applications this book is a valuable resource for researchers working on catalytic reactions industrial processes and nanomaterial applications

Technology and Medicine Bengt Nielsen, 2023-10-03 Taking a holistic approach this book describes the developments in medicine and medical technology from ancient times to modern days It is an exciting journey where readers will learn about the many great inventions by people that did not take the knowledge of their times as a fact They challenged mysticism beliefs the religion and the Church They were true scientists long before we knew how to define what a scientist is This book is in a way connecting the dots between the past and the future within healthcare Features Provides details on further developments that gave new and exceptional information for diagnostic or therapeutic purposes Gives the reader a new perspective and a common thread of life on medicine and MedTech as well as an improved understanding of how far we have come and how much there still is to work on before we fully understand the human body and its functionality Discusses and gives insight into ongoing research projects that could become clinically available in the future

**Machine Learning for Medical Applications** Ranjith Rajamanickam, Amit Sharma, Dhivya Ranjith, J. Paulo Davim, 2025-09-01 Machine Learning for Medical Applications Volume II delves into the intersection of artificial intelligence computer vision and healthcare offering a comprehensive exploration of how machine learning is revolutionizing disease detection and diagnostics With a focus on deep learning methods the volume covers a wide spectrum of innovations including medical image segmentation predictive modeling tissue engineering smart biomaterials and

personalized implant design through 3D printing Contributors from academia and industry present state of the art applications involving quantum dot functionalization AI enhanced diagnostic materials and real time image analysis Each chapter provides both foundational knowledge and practical insight into how advanced algorithms can drive medical breakthroughs Ideal for medical technologists data scientists biomedical engineers and clinical practitioners this volume emphasizes the role of machine learning in developing faster smarter and more accurate diagnostic tools for the next generation of personalized medicine

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