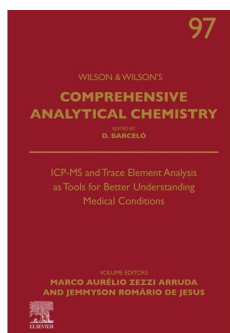


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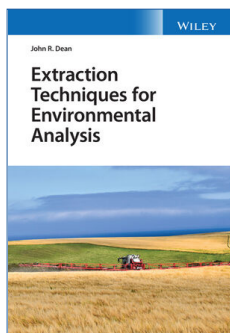


ICP-MS and Trace Element Analysis as Tools for Better Understanding Medical Conditions (Series: Comprehensive Analytical Chemistry, Volume 97)

Marco Aurélio Zezzi Arruda and Jemmyson Romário de Jesus, Editors

May, 2022. Publisher: Elsevier

This book discusses trace elements and how they play an important role in biological functions and metabolism in the human body. It covers biomedical analysis by ICP-MS: a focus on single cell, advanced statistical tools and machine learning applied to trace element analysis associated with medical conditions, ICP-MS as a tool to understand trace element homeostasis in neurological disorders, and as a versatile technique from imaging to chemical speciation, and more. [Read more](#)

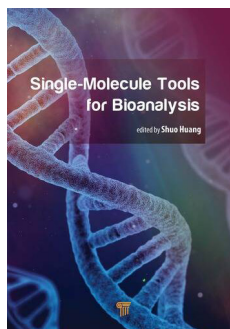


Extraction Techniques for Environmental Analysis

John R. Dean, Author

February 2022. Publisher: Wiley

Extraction techniques for aqueous, air, and solid environmental matrices are explored. Readers will find in-depth treatments of specific extraction techniques suitable for adoption in their own laboratories, as well as reviews of relevant analytical techniques used for the analysis of organic compound extracts. A chapter that extensively covers the requirements for an analytical laboratory, including health and safety standards is included. [Read more](#)

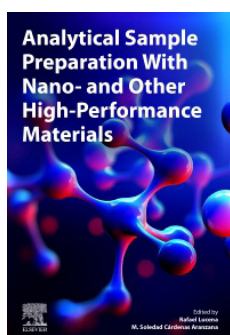


Single-Molecule Tools for Bioanalysis

Shuo Huang, Editor

May 2022. Publisher: Jenny Stanford

In the last three decades, the fast development of single-molecule techniques has revolutionized the way we observe and understand biological processes. This book summarizes and details the frontiers of the development of the single-molecule techniques as well as their applications. The systematically written content provides a thorough illustration of the mechanisms of each methodology presented. [Read more](#)



Analytical Sample Preparation with Nano- and Other High-Performance Materials

Rafael Lucena and M. Soledad Cardenas Aranzana, Editors

October, 2021. Publisher: Elsevier

This book explains the underlying principles needed to properly understand sample preparation, and also examines the latest materials - including nanomaterials - that result in greater sensitivity and specificity. The book begins with a section devoted to all the various sample preparation techniques and then continues with sections on high-performance sorbents and high-performance solvents. [Read more](#)