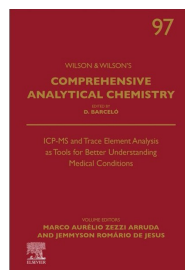


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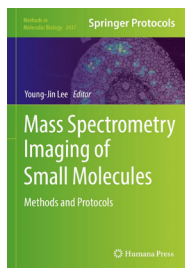


ICP-MS and Trace Element Analysis as Tools for Better Understanding Medical Conditions

Marco Aurélio Zezzi Arruda and Jemmyson Romário de Jesus, Editors

May, 2022. Publisher: Elsevier

This book discusses how trace elements 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](#)

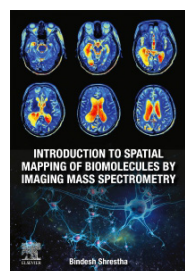


Mass Spectrometry Imaging of Small Molecules – Methods and Protocols

Young-Jin Lee, Editors

December, 2021. Publisher: Humana Press New York, NY

This volume presents updated methods and new developments in the field of mass spectrometry imaging. Chapters guide readers through four parts covering imaging, software, data analysis, new instrumentation, and new methodological approaches. Authoritative and cutting-edge, this book aims to be a useful practical guide to researchers to help further their study in this field. [doi](#)

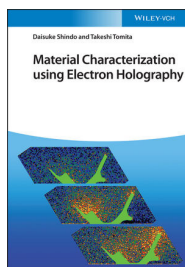


Introduction to Spatial Mapping of Biomolecules by Imaging Mass Spectrometry

Bindesh Shrestha, Author

April 2021. Publisher: Elsevier

This book builds a foundation of imaging MS knowledge by introducing ionization sources, sample preparation, visualization guidelines, molecule identification, quantification, data analysis, etc. The second section contains chapters focused on case studies on analyzing a biomolecule class of molecules. Case studies include an introduction/background, and a summary of successful imaging MS studies with illustrative figures and future directions. [doi](#)

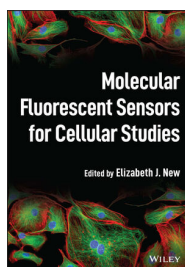


Material Characterization using Electron Holography

Daisuke Shindo, Takeshi Tomita, Authors

October 2022. Publisher: Wiley VCH GmbH

This book addresses how the electromagnetic field can be directly visualized and precisely interpreted based on Maxwell's equations formulated by special relativity, leading to the understanding of electromagnetic properties of advanced materials and devices. In doing so, it delivers a unique route to imaging materials in higher resolution. [doi](#)



Molecular Fluorescent Sensors for Cellular Studies

Elizabeth J. New, Editor

September 2022. Publisher: John Wiley & Sons Ltd.

This book provides an avenue into and overview of currently available fluorescent sensing technology and its application to biological imaging. Key applications of fluorescent sensing are presented, with explanations not only of how new sensors can be designed, but also how existing sensors can be applied to various biological settings and conditions. Clear and engaging schematics throughout the book explain chemical principles of sensing to the non-expert. [doi](#)