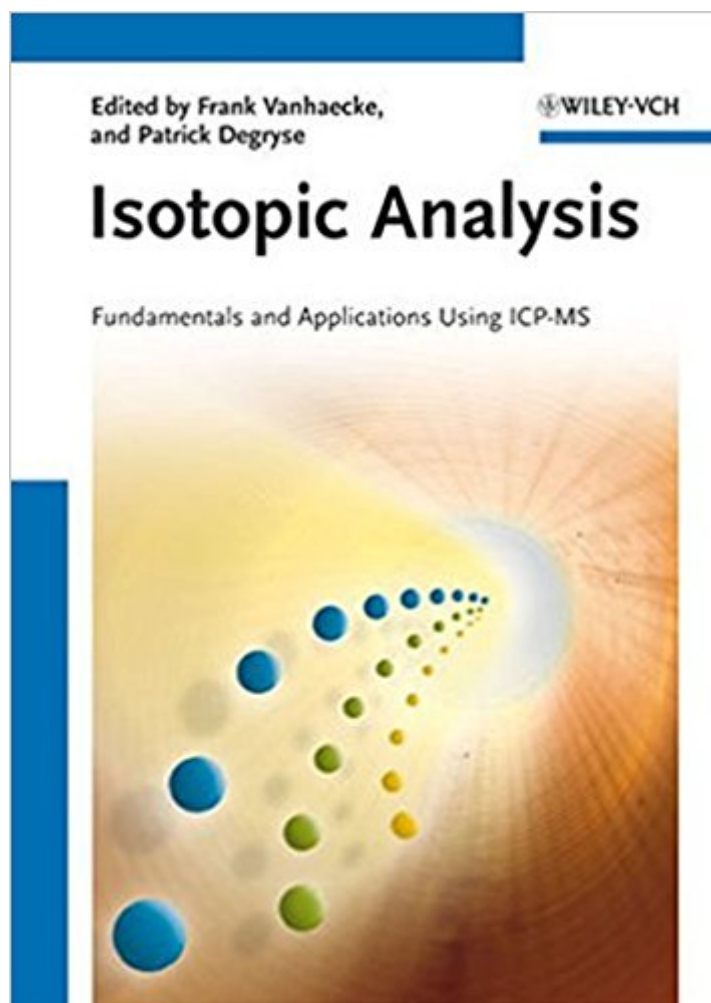


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# Isotopic Analysis: Fundamentals And Applications Using ICP-MS



## Synopsis

Edited by two very well-known and respected scientists in the field, this excellent practical guide is the first to cover the fundamentals and a wide range of applications, as well as showing readers how to efficiently use this increasingly important technique. From the contents: \* The Isotopic Composition of the Elements \* Single-Collector ICP-MS \* Multi-Collector ICP-MS \* Advances in Laser Ablation - Multi-Collector ICP-MS \* Correction for Instrumental Mass Discrimination in Isotope Ratio Determination with Multi-Collector ICP-MS \* Reference Materials in Isotopic Analysis \* Quality Control in Isotope Ratio Applications \* Determination of Trace Elements and Elemental Species Using Isotope Dilution ICP-MS \* Geochronological Dating \* Application of Multi-Collector ICP-MS to Isotopic Analysis in Cosmochemistry \* Establishing the Basis for Using Stable Isotope Ratios of Metals as Paleoredox Proxies \* Isotopes as Tracers of Elements Across the Geosphere-Biosphere Interface \* Archaeometric Applications \* Forensics Applications \* Nuclear Applications \* The Use of Stable Isotope Techniques for Studying Mineral and Trace Element Metabolism in Humans \* Isotopic Analysis via Multi-Collector ICP-MS in Elemental Speciation A must-have for newcomers as well as established scientists seeking an overview of isotopic analysis via ICP-MS.

## Book Information

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"This is a book that consists of a collection of highly technical but practical chapters written by experts in the field. Given the rapidly advancing field of isotopic mass spectrometric analysis, it will be valuable as a reference guide for research workers and advanced students of these topics." [\(Analytical and Bioanalytical Chemistry, 27 October 2012\)](#)

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