



# Isotope Ratio Mass Spectrometry of Light Gas-Forming Elements

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## Isotope Ratio Mass Spectrometry of Light Gas-Forming Elements

**Isotope Ratio Mass Spectrometry of Light Gas-Forming Elements** explores different methods of isotope analysis, including spark, secondary ion, laser, glow discharge, and isotope ratio mass spectrometry. It explains how to evaluate the isotopic composition of light elements (H, C, N, O) in solid, liquid, and gaseous samples of organic and inorganic substances, as well as:

- Presents a universal, economical, simple, and rapid technique for sample preparation of organic substances to measure the isotopic composition of carbon
- Describes how to determine microbial mineralization of organic matter in soil and the effect of exogenous substrates on environmental sustainability
- Examines use of the isotopic composition of n-alkanes from continental vegetation to study the paleoclimate and plant physiology
- Proposes a systematic approach to identifying tobacco areas of origin and tobacco products based on data from the isotopic composition of light elements
- Discusses ways to detect doping drugs and suggests results assessment criteria based on determining reference intervals for endogenous markers
- Reviews methods of release of gases from inclusions of rocks and minerals for further implementation of isotope mass spectrometric analysis
- Considers use of optical isotope analyzers for determining the isotopic composition of carbon in CO<sub>2</sub> and of hydrogen and oxygen in water

Providing a complete picture of the latest advancements in the field, **Isotope Ratio Mass Spectrometry of Light Gas-Forming Elements** aids readers from a variety of disciplines in identifying the fundamental processes in biological, ecological, and geological systems and in revealing the subtle features of many physicochemical processes and chemical transformations.

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