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Isotopic ratios in the red giant component of the ...
We present analyses of nitrogen and oxygen isotopic ratios and site preference (SP) values of atmospheric nitrous oxide samples obtained from Taiwan in west Pacific. Air samples were collected during September 2013 to January 2016 from Taipei and during November 2011 to December 2014 from Keelung, located in the northeastern coast of Taiwan.

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Isotope movement holds key to the power of fusion reactions

In other words, if the processes of sublimation, active jetting, and photochemistry in the coma impart isotopic fractionation, the spectroscopic measurements could give a false impression of the true isotope ratios. What is required is an experiment capable of measuring isotopic ratios at the very surface of a comet.

(PDF) Determining key isotopic ratios in the field ...

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An isotopic signature (also isotopic fingerprint) is a ratio of non-radiogenic 'stable isotopes', stable radiogenic isotopes, or unstable radioactive isotopes of particular elements in an investigated material. The ratios of isotopes in a sample material are measured by isotope-ratio mass spectrometry against an isotopic reference material. ...

Isotopic Ratios The Key To
Manuel O. (2002) Isotopic Ratios: The Key to Elemental

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Abundances and Nuclear Reactions in the Sun. In: Manuel O. (eds) Origin of Elements in the Solar System. Springer, Boston, MA

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Isotopic Effect on Ion Mobility and Separation of ...
Key Words: Absolute ratios, abundance, isotopic standards, lead. 1. Introduction The NBS is conducting a long-term program of absolute isotopic abundance ratio and physical

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atomic • weight determinations, using solid-sample mass spectrometry. Previous elements studied include silver

Stratospheric incursion as a source of enhancement of the ...
+, leading to high isotopic ratios in prestellar cores, where carbon monoxide is frozen onto dust grains. Key words. ISM: clouds – ISM: molecules – ISM: abundances – radio lines: ISM – stars: formation 1. Introduction Nitrogen is the fifth element in the universe for abundance. In molecular gas, it is believed that its main reservoir ...

Ptolemy an Instrument to Measure Stable Isotopic Ratios of ...
Isotopic ratio outlier analysis (IROA) Isotopic Ratio Outlier

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Analysis (IROA) is a simple and direct LC-MS metabolic profiling technique that uses 95% and 5% ^{13}C to label biochemical metabolites resulting in unique signatures (see figure below). LC-MS and software algorithms are then used to find, identify and quantify these specific signatures.

Isotopic Ratios The Key To Elemental Abundances And Isotope movement holds key to the power of fusion reactions by National Institutes of Natural Sciences Isotope non-mixing and isotope mixing profiles.

Carbon and nitrogen isotopic ratios of the seagrass ...
The carbon isotope abundance ratio, $(^{12}\text{C})/(^{13}\text{C})$, in comets is a key number to their origin. Its accurate determination

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from ground-based spectroscopy is, however, a difficult task since the observable emissions of (^{13}C) -containing molecules are very weak. Due to its exceptional brightness, comet Hale-Bopp provided a unique opportunity to look for (^{13}C) and derive the $(^{12}\text{C})/(^{13}\text{C})$ isotopic ...

On the $(^{13}\text{CN})/(^{12}\text{CN})$ Isotopic Ratio in Comet Hale-Bopp ...
The first major discovery enabled by MS was the existence of isotopes by Thomson and Aston,³ and isotopic analyses have since been integral to MS. In particular, the preparative separation of U isotopes using Lawrence's Calutron was the first industrial application of MS,⁴ and isotopic labeling is key to MS quantification methods.

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First sample of N H nitrogen isotopic ratio measurements ...

Key words: stable isotopes, seagrass, Posidonia, NW Mediterranean. Introduction. The measurement of the natural abundance ratios of carbon and nitrogen stable isotopes ($^{13}\text{C}/^{12}\text{C}$ and $^{15}\text{N}/^{14}\text{N}$) has numerous applications in ecological studies, particularly in the delineation of food sources in trophic webs.

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On August 6th, 2012 the automatic Mars Science Laboratory rover named Curiosity landed on Mars. One of the scientific instruments on board is ChemCam, which has a pulsed laser capable of ablating a focused spot on a remote sample to create a glowing plasma plume of target material. Light from plasma is collected by rover ' s telescope on a mast, and the optical spectra are then analyzed by an ...

Isotopic ratio outlier analysis - Wikipedia

Absolute isotopic ratios are required for isobaric interference corrections, spike calibrations, and isotopic

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analysis by external normalization methods. However, high-precision natural isotopic abundance data are lacking for many elements, particularly those with less than four isotopes or having isobaric isotopes with other elements. In this study, we developed a method for absolute isotope ...

Isobaric Spike Method for Absolute Isotopic Ratio ...

Key words IROA patterns ... Ajredini R, Szewc MA, Beecher C, Edison AS (2013) *Caenorhabditis elegans* global metabolomics with Isotopic Ratio Outlier Analysis. *Anal Chem* 85:11858–11865 CrossRef Google Scholar. 5. Rahman MA, Akond M, Babar MA, Beecher C, Erickson J, Thomason K, de Jong F, Mason RE ...

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Isotopic Ratio Outlier Analysis (IROA) for Quantitative ...

We report the determination of abundances and isotopic ratios for C, O and Si in the photosphere of the red giant component of the recurrent nova T Coronae Borealis from new 2.284–2.402 μm and 3.985–4.155 μm spectroscopy.

Abundances and isotopic ratios in the photosphere may be affected by (i) processes in the red giant interior which are brought to the

Isotopic signature - Wikipedia

A new elegant technology was born and branded as Laser Ablation Molecular Isotopic Spectrometry (LAMIS). LAMIS shares all the same technical benefits of its predecessor Laser Induced Breakdown Spectroscopy (LIBS), including

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rapid analysis and the

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