Laser Ablation Accelerator Mass Spectrometry Of Actinides

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Laser Ablation Accelerator Mass Spectrometry
Abstract A new instrumental setup, combining laser ablation (LA) with accelerator mass spectrometry (AMS), has been investigated for the online radiocarbon (14 C) analysis of carbonate records. Samples were placed in an in-house designed LA-cell, and CO 2 gas was produced by ablation using a 193 nm ArF excimer laser.

Laser Ablation – Accelerator Mass Spectrometry: An ...
The AMS technique at ATLAS is based on production of highly-charged positive ions in an electron cyclotron resonance (ECR) ion source followed by acceleration in the ATLAS linac and mass-to-charge (m/q) measurement at the focus of the Fragment Mass Analyzer. Laser ablation was selected as the method of feeding the actinide material into the ion source because we expect it will have higher efficiency and lower chamber contamination than either the oven or sputtering techniques, because of a ...

Toward laser ablation Accelerator Mass Spectrometry of ...
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(PDF) Laser Ablation – Accelerator Mass Spectrometry: a ...
A new instrumental setup, combining laser ablation (LA) with accelerator mass spectrometry (AMS), has been investigated for the online radiocarbon ((14)C) analysis of carbonate records. Samples were placed in an in-house designed LA-cell, and CO2 gas was produced by ablation using a 193 nm ArF excimer laser.

Laser Ablation - Accelerator Mass Spectrometry: An ...
LA-ICP-MS (Laser Ablation Inductively Coupled Plasma Mass Spectrometry) is a powerful analytical technology that enables highly sensitive elemental and isotopic analysis to be performed directly on solid samples. LA-ICP-MS begins with a laser beam focused on the sample surface to generate fine particles – a process known as Laser Ablation.

What is LA-ICP-MS?
<p>Abstract. Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) U–Pb geochronology of carbonate minerals, calcite in ...

GChron - Laser ablation inductively coupled plasma mass ...
Toward laser ablation Accelerator Mass Spectrometry of actinides - NASA/ADS A project to measure neutron capture cross sections of a number of actinides in a reactor environment by Accelerator Mass Spectrometry (AMS) at the ATLAS facility of Argonne National Laboratory is underway.

Toward laser ablation Accelerator Mass Spectrometry of ...
Conventional radiocarbon analysis of carbonate records with accelerator mass spectrometry (AMS) is time consuming and the achievable spatial resolution is limited, because individual samples have to be taken and need to be converted to graphite for the measurement.

Novel Laser Ablation Sampling Device for the Rapid ...
Laser ablation electrospray ionization is an ambient ionization method for mass spectrometry that combines laser ablation from a mid-infrared laser with a secondary electrospray ionization process. The mid-IR laser is used to generate gas phase particles which are then ionized through interactions with charged droplets from the ESI source. LAESI was developed in Professor Akos Vertes lab by Dr. Peter Nemes in 2007 and is was marketed commercially by Protea Biosciences, Inc until 2017. Fiber-LAES

Laser ablation electrospray ionization - Wikipedia
In mass spectrometry, matrix-assisted laser desorption/ionization (MALDI) is an ionization technique that uses a laser energy absorbing matrix to create ions from large molecules with minimal fragmentation.

Matrix-assisted laser desorption/ionization - Wikipedia
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Advancements in Laser Ablation Accelerator Mass ...
Laser ablation accelerator mass spectrometry (LA-AMS) precision scans for both sides of the otolith section from specimen RS17 where growth zone structure was well defined: (a) long scan (dorsal), (b) short scan (ventral). Age was estimated as 43 years with original estimates that ranged from 36 to 56 years using different interpretations.

Laser ablation–accelerator mass spectrometry reveals ...
412 31 Mass Spectrometry from an artifact and sent directly into the mass spectrometer. Mass spectrome-ters can be combined with other instruments in ways that enhance the sensitivity and selectivity of the analyses. Mass spectrometers linked to inductively coupled plasma torches (ICP-MS) provide highly sensitive elemental analyses of samples

Chapter 31 Mass Spectrometry
Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) is a powerful technique for the elemental analysis of a wide variety of materials encountered in forensic casework. (LA-ICP-MS) has already successfully been applied to applications in forensics, metals, glasses, soils, car paints, bones and teeth, printing inks, trace ...

Inductively coupled plasma mass spectrometry - Wikipedia
By focusing high-intensity laser pulses on carbonate samples carbon dioxide is generated and can be directly introduced into the gas ion source (GIS) of an Accelerator Mass Spectrometer (AMS). This new technique allows rapid radiocarbon analyses at high spatial resolution.

Rapid Revelation of Radiocarbon Records with Laser ...
Autor: Pieterse, C. L.; Genre: Hochschulschrift; Im Druck veröffentlicht: 2018-08-31; Open Access; Keywords: Time-of-flight mass spectrometry , Laser ablation ...

Mass Spectrometry Performed Under Ultrafast Stress ...
J. Phys. Chem. All Publications/Website. OR SEARCH CITATIONS

First observation of carbon aggregate ions >C600+ by laser ...
CD measurement with laser ionization mass spectrometry often use Resonance Enhanced Multiphoton Ionization (REMPI) 18,23,24,25,26,27. They rely on resonant electronic absorption of one photon ...