AMBIENT INFRARED LASER ABLATION MASS SPECTROMETRY (AIRLAB-MS) WITH PLUME CAPTURE BY CONTINUOUS FLOW SOLVENT PROBE

Tech ID: 24239 / UC Case 2014-210-0

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,805,921	10/31/2017	2014-210

BRIEF DESCRIPTION

UC Berkeley researchers and others developed a new experimental setup for spatially resolved ambient infrared laser ablation mass spectrometry (AIRLAB-MS) that uses an infrared microscope with an infinity-corrected reflective objective and a continuous flow solvent probe coupled to a Fourier transform ion cyclotron resonance mass spectrometer is described.

SUGGESTED USES

- laser ablation and mass spectrometry
- devices for plume capture of laser ablated samples for mass spectrometry and spectroscopy

ADVANTAGES

The transfer efficiency is significantly higher than values reported for similar techniques.

CONTACT

Sabrina N. David
sabrina.david@berkeley.edu
tel: .



INVENTORS

- Williams, Evan R.

OTHER INFORMATION

CATEGORIZED AS

- **Research Tools**
  - Other
- **Sensors & Instrumentation**
  - Analytical
  - Scientific/Research

RELATED CASES

2014-210-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Apodization Specific Peak Fitting In Charge Detection Mass Spectrometry
- Multiplex Charge Detection Mass Spectrometry
- Sequential Pass Express Charge Detection Mass Analyzer
- Aerosol Ionization For Charge Detection Mass Spectrometry Ion Mobility Analysis

© 2022, The Regents of the University of California
Terms of use | Privacy Notice