JAAS

Journal of Analytical Atomic Spectrometry

rsc.li/jaas

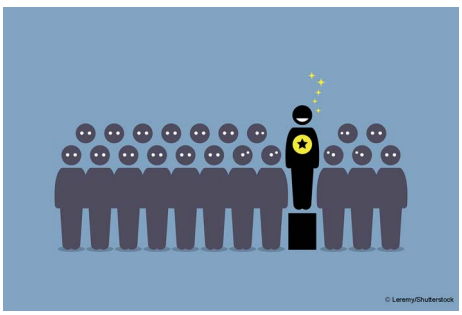
The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

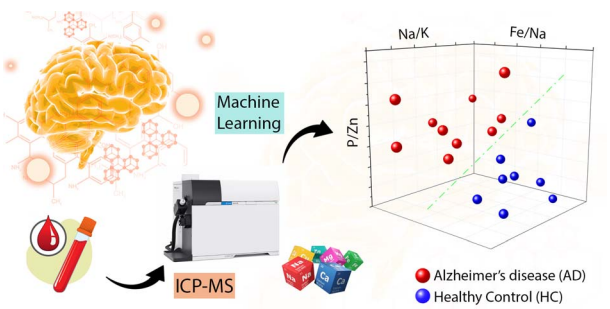
ISSN 0267-9477 CODEN JASPE2 39(8) 1951–2140 (2024)

Cover
See Noureddine Melikechi *et al.*, pp. 1961–1970. Image reproduced by permission of Noureddine Melikechi from *J. Anal. At. Spectrom.*, 2024, **39**, 1961.

EDITORIAL



PAPERS



ROYAL SOCIETY OF CHEMISTRY

GOLD OPEN ACCESS

RSC Applied Polymers

The application of polymers, both natural and synthetic

Interdisciplinary and open access

rsc.li/RSCApplPolym

Fundamental questions
Elemental answers

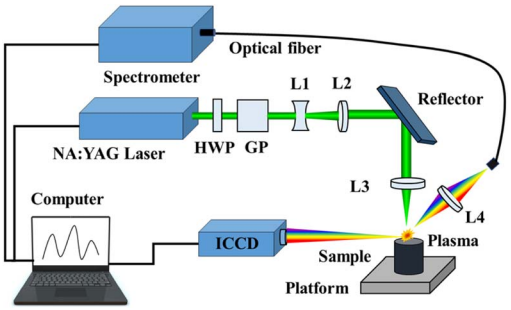
Registered charity number: 207890

PAPERS

1971

Spectral stability improvement in laser-induced breakdown spectroscopy based on an image auxiliary data preprocessing method

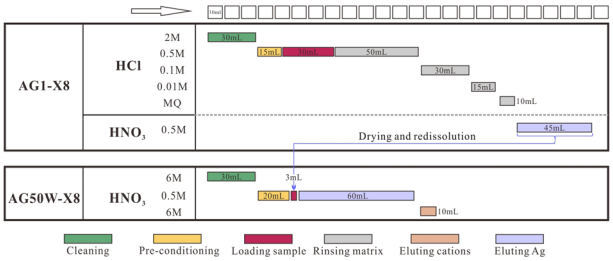
Guanghui Chen, Peichao Zheng,* Jinmei Wang, Biao Li, Xufeng Liu, Zhi Yang, Zhicheng Sun, Hongwu Tian, Daming Dong and Lianbo Guo



1980

Accurate determination of stable silver isotopes in zinc-rich samples through effective separation of silver and zinc

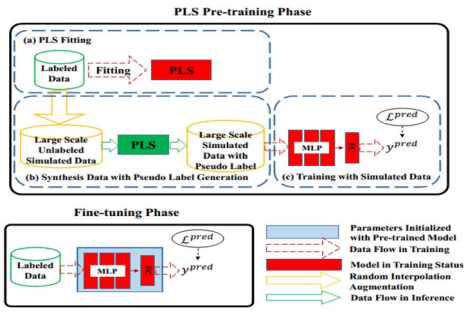
Haotian Gong, Youqiang Qi,* Tingguang Lan,* Haifeng Fan, Youwei Chen, Ting Zhou and Ruizhong Hu



1990

NIRS-XRF fusion spectroscopy for coal calorific value prediction using data deficient learning

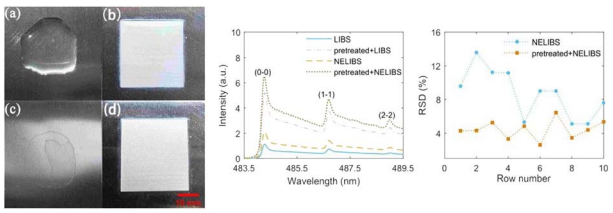
Xianjing Jie, Aiyong Yang, Qingru Cui, Baobei Xu,* Yilu Guo and Shiliang Pu



2002

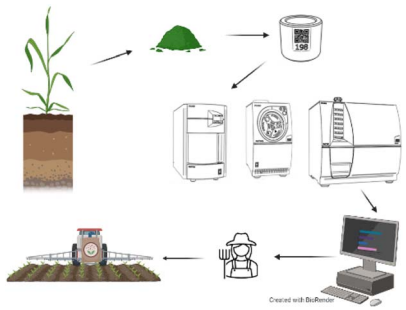
Emission and stability improvement of AlO molecular bands in NELIBS using laser pretreatment

Qiuyun Wang, Fangjian Zhang, Xueyan Han, Xun Gao,* Weijun Chen, Kewei Huan, Ying Cui, Ya Liu, Wei Liang and Anmin Chen*



PAPERS

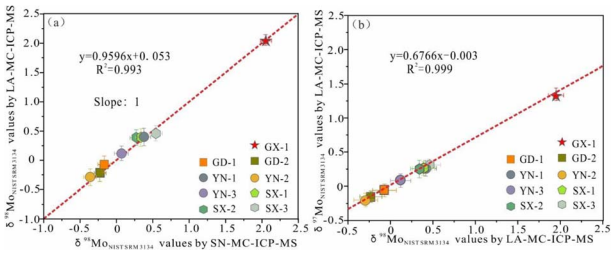
2008



A novel LIBS method for quantitative and high-throughput analysis of macro- and micronutrients in plants

Frederikke Neergaard Mikkelsted, Daniel Adén, Thomas Nikolajsen and Kristian Holst Laursen*

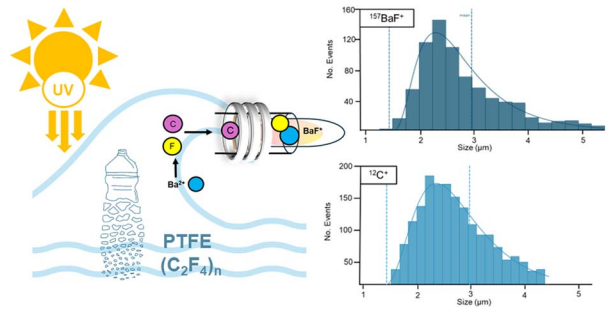
2021



In situ precise determination of stable Mo isotope ratios in molybdenite by femtosecond LA-MC-ICP-MS

Jing Tian, Zhian Bao, Kaiyun Chen, Chunlei Zong, Yan Zhang, Deyi Peng and Honglin Yuan*

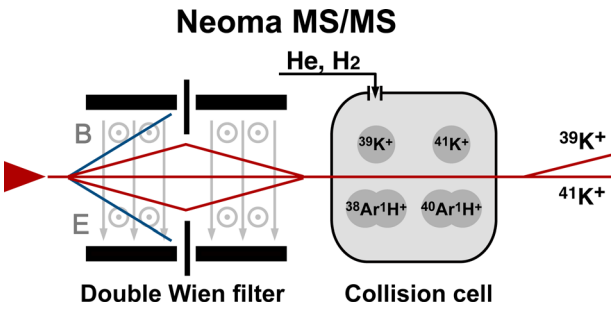
2030



Studying the degradation of bulk PTFE into microparticles *via* SP ICP-MS: a systematically developed method for the detection of F-containing particles

Raquel Gonzalez de Vega,* Thebny Thaíse Moro, Bernhard Grüner, Tatiane de Andrade Maranhão, Maximilian J. Huber, Natalia P. Ivleva, Etienne Skrzypek, Jörg Feldmann and David Clases*

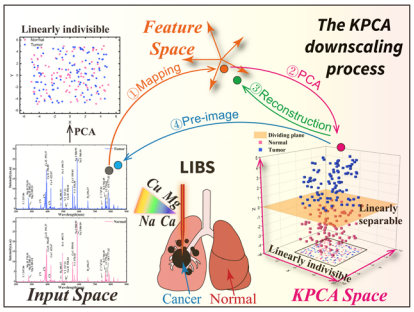
2038

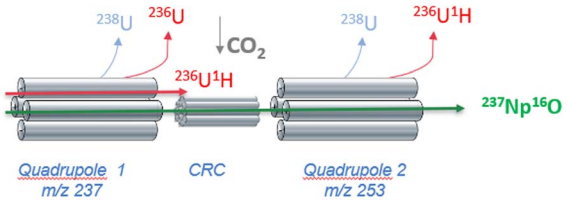


High precision analysis of potassium stable isotopes using the collision/reaction cell Neoma MC-ICPMS/MS

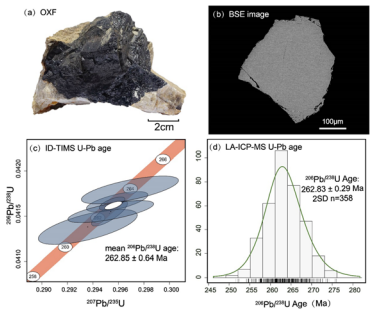
Nicole X. Nie,* Rosa Grigoryan and Francois L. H. Tissot

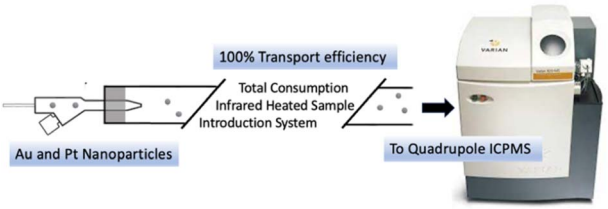
PAPERS





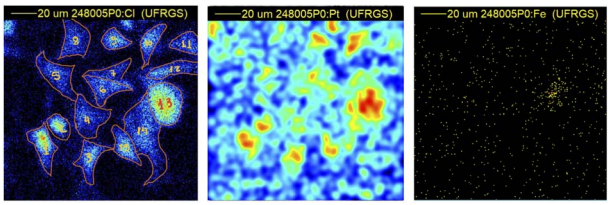
CO_2 20% + mass shift (NpO) measurement → $^{236}U^1H$ interference removed and Pu/Np fractionation avoided





PAPERS

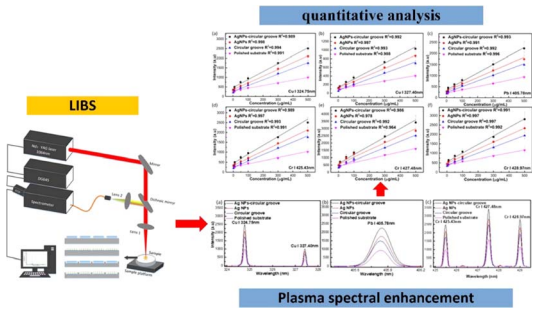
2087



Micro-PIXE reveals cisplatin uptake followed by Fe accumulation in U87 cells

Henrique Fonteles,* T. S. Klippel, Julia Marcolin, Deiverti Bauer, Daphne Torgo, Laura Boose, Karine Begnini, Eduardo Filippi-Chiela, Guido Lenz, Johnny Ferraz Dias and Pedro Luis Grande

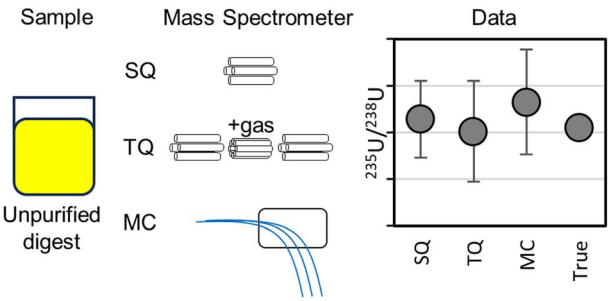
2097



High-sensitivity determination of heavy metal elements in water with circular grooves and nanoparticle-enhanced LIBS

Lin Yuan, Qiuyun Wang, Hailong Yu, Peng Lang, Han Li, Xun Gao* and Jingquan Lin

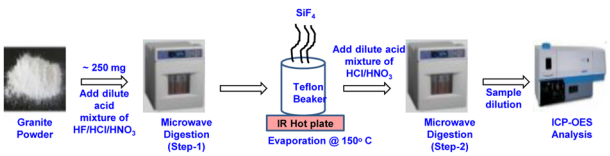
2106



Uranium isotopic analysis in unpurified solutions by ICP-MS

Sean R. Scott,* Kirby P. Hobbs, Amanda D. French, Isaac J. Arnquist, Sonia Alcantar Anguiano, Daniel L. Sullivan and Staci M. Herman

2116



Development of a simple and efficient two-step microwave-assisted digestion method for the determination of REEs, HFSEs and other elements in granite samples by ICP-OES

Chandrasekaran Krishnan, Venkata Balarama Krishna Mullapudi,* Venkateswarlu Gumma, Johnson George and Beena Sunilkumar

Determining high-precision Sr–Nd isotopic ratios of certified reference materials using thermal ionization mass spectrometry

Ravi Shankar,* Drona S. Sarma, Aurovinda Panda, Arathi G. Panicker and Sminto Augustine