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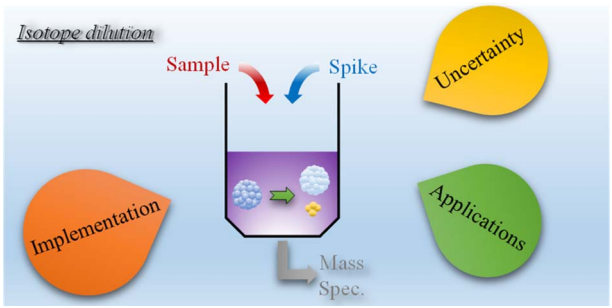
See Fang Huang *et al.*, pp. 1750–1758. Image reproduced by permission of Fang Huang from *J. Anal. At. Spectrom.*, 2024, **39**, 1750.

Inside cover
See Teruhiko Kashiwabara *et al.*, pp. 1759–1777. Image reproduced by permission of Teruhiko Kashiwabara from *J. Anal. At. Spectrom.*, 2024, **39**, 1759.

ATOMIC SPECTROMETRY UPDATES

CRITICAL REVIEW



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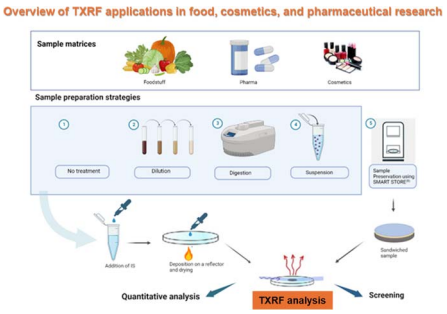
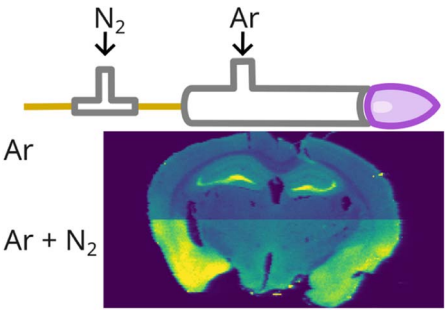
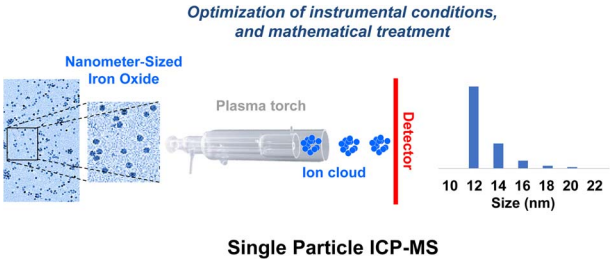
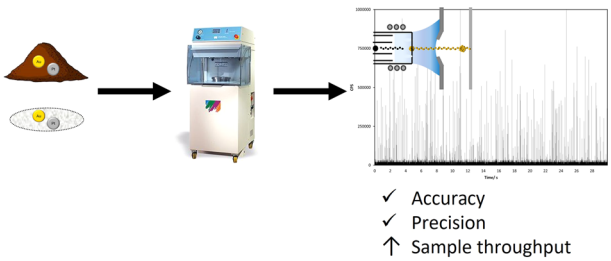
TUTORIAL REVIEW



TECHNICAL NOTES

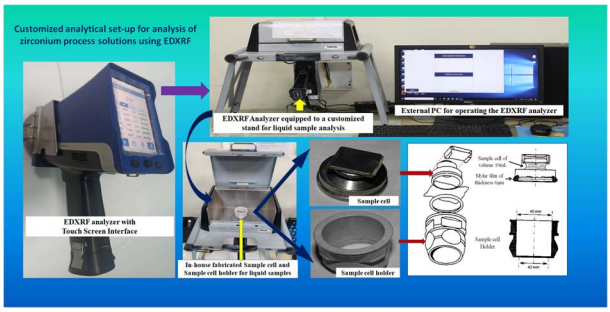






TECHNICAL NOTES

1741



Development of a simple and rapid EDXRF method for quantification of ZrO_2 and HfO_2 in aqueous and organic process stream solutions generated from a zirconium extraction facility

Y. Balaji Rao,* S. NVMS Gupta, P. V. Nagendra Kumar and Dinesh Srivastava

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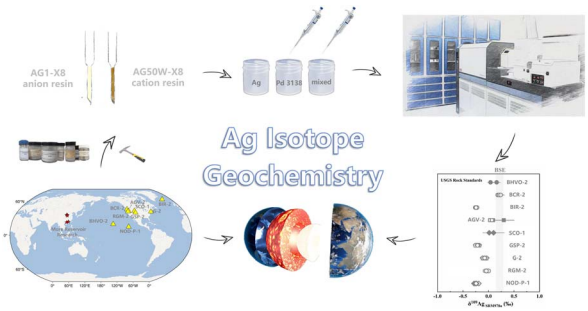
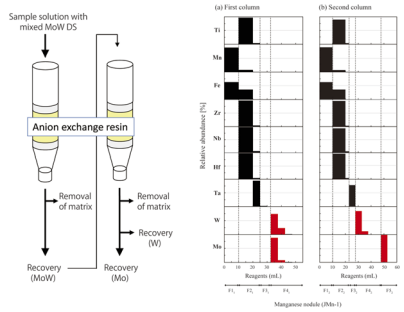
1750



High-precision measurement of Ag isotopes for silicate rocks by MC-ICP-MS

Yuan Fang, Qiu-Yu Wen, Zi-Cong Xiao, Hui-Min Yu and Fang Huang*

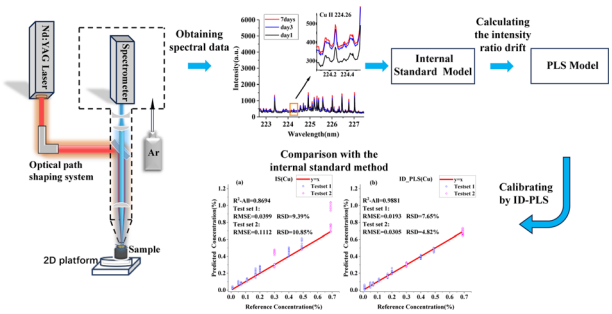
1759



High-precision stable isotope measurements of tungsten and molybdenum in single sample aliquots combined with optimized separation for mixed double spikes

Teruhiko Kashiwabara,* Yusuke Fukami, Sayuri Kubo, Ayako Watakabe, Minako Kurisu, Satoshi Tokeshi, Tsuyoshi Iizuka and Katsuhiko Suzuki

1778



Combination of the internal standard and dominant factor PLS for improving long-term stability of LIBS measurements

Yang Zhou, Lanxiang Sun,* Yang Li, Yong Xin, Wei Dong and Jinchi Wang

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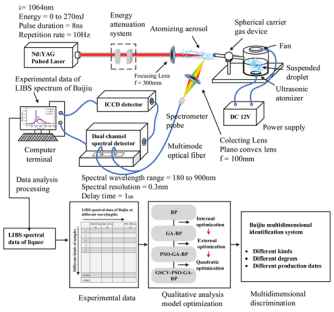

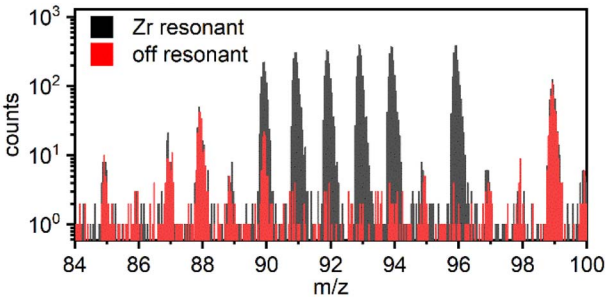

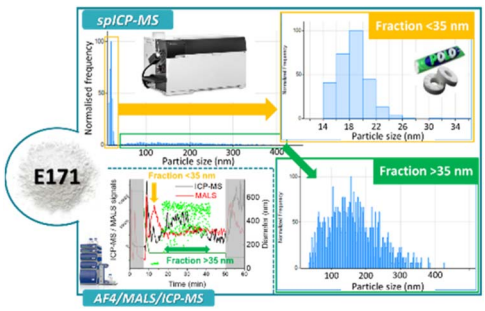

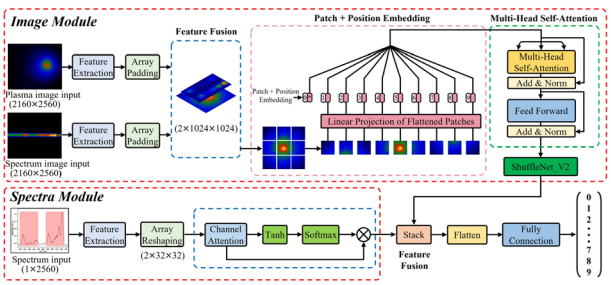

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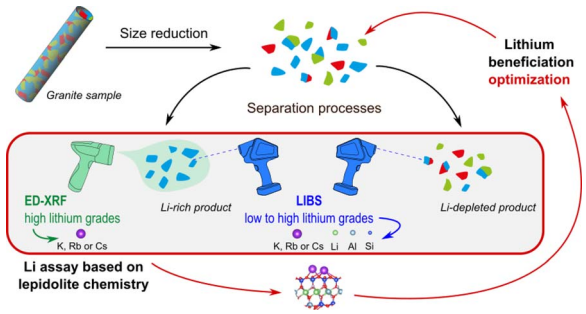
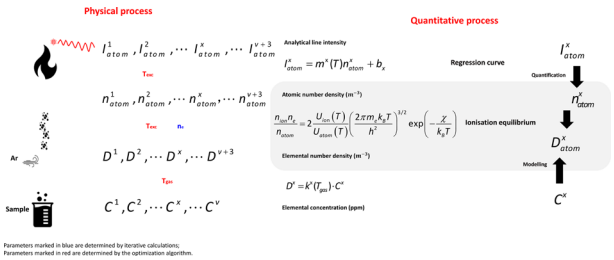
1838



Quantification of lithium using handheld instruments: application of LIBS and XRF spectroscopy to assay the lithium content of mineral processing products

C. Korbel,* N. Mezoued, B. Demeusy, C. Fabre,* J. Cauzid, I. V. Filippova and L. O. Filippov

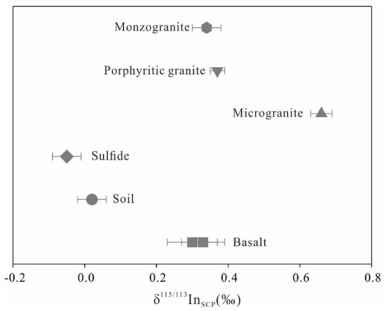
1854



The Saha ionisation equilibrium shift correction model applied to MPT-OES for analysing complex matrix samples: an example for brine samples

Haoze Wei, Zongjun Zhu, Rongyao Wang, Dengjie Yu, Wei Jin* and Bingwen Yu*

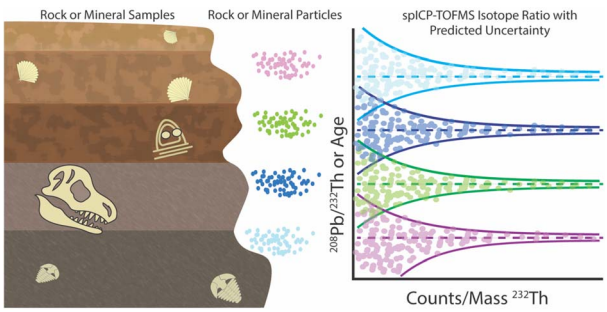
1867



Determination of indium isotopic ratios of geostandards with different matrices by multi-collector inductively coupled plasma mass spectrometry (MC-ICP-MS)

Chuanwei Zhu, Yunzhu Wu, Zerui Liu, Meifu Zhou, Guangshu Yang, Yuxu Zhang and Hanjie Wen*

1874



Isotopic ratio analysis of individual sub-micron particles *via* spICP-TOFMS

Sarah E. Szakas and Alexander Gundlach-Graham*

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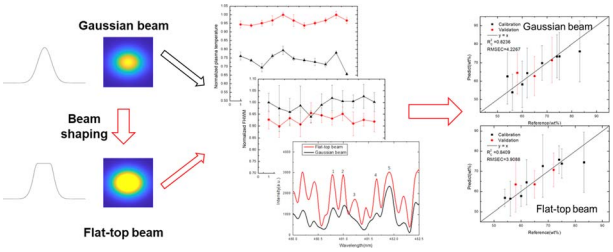

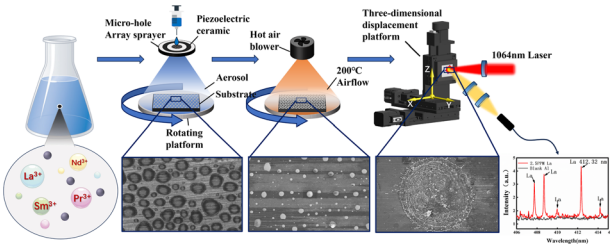

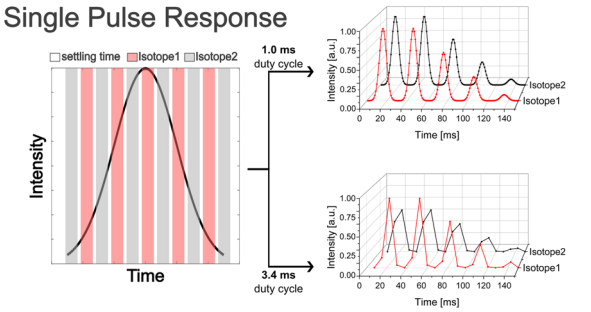

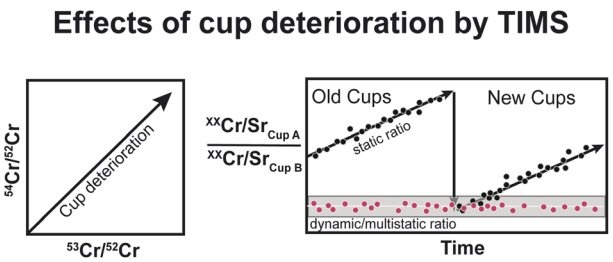

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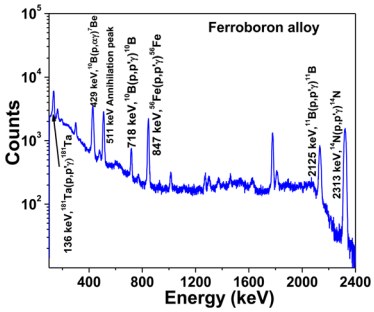
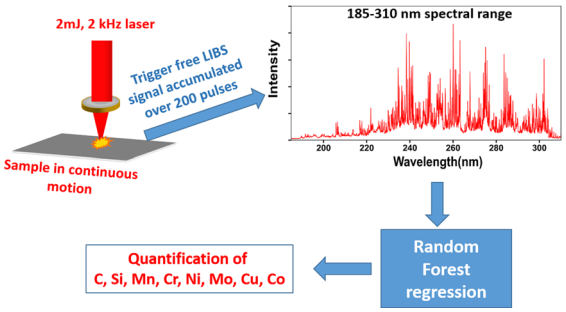
1919



Characterization of ferroboron alloys by simultaneously quantifying Fe and B mass fractions and isotopic compositions of B by external particle induced gamma-ray emission method

Sk Wasim Raja,* R. Acharya, Akash Dileep Gandhi and J. B. Singh

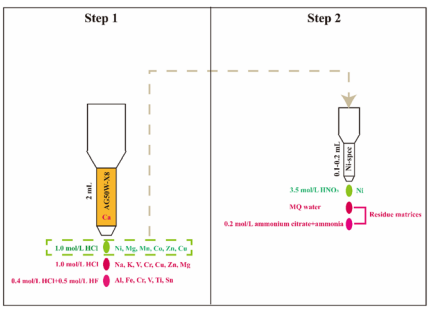
1927



Trigger-free LIBS using kHz and a few mJ laser in combination with random forest regression for the quantitative analysis of steel elements

S. Ahlawat,* A. Singh, S. Sahu, P. K. Mukhopadhyay, R. Arya and S. K. Dixit

1938



A two-step chromatographic purification method for Ni for its isotopic analysis by MC-ICP-MS

Lingke Li, Fei Wu,* Yongsheng Liu, Tao He, Jie Lin, Wen Zhang, Rui Li, Haihong Chen, Keqing Zong, Zhen Zeng and Zhaochu Hu

CORRECTION

1948

Correction: Development of a multi-isotopic (Pb, Fe, Cu) analytical protocol in gold matrices for ancient coin provenance studies

Louise de Palaminy,* Franck Poitrasson, Sandrine Baron, Maryse Blet-Lemarquand and Loïc Perrière