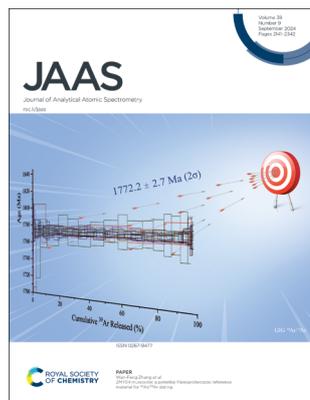


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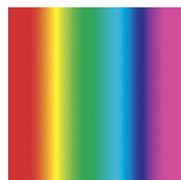
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See Wan-Feng Zhang *et al.*, pp. 2173–2182. Image reproduced by permission of Wan-Feng Zhang from *J. Anal. At. Spectrom.*, 2024, **39**, 2173.

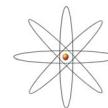
EDITORIAL

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Atomic Spectrometry Updates: An overview and call for new writers



Atomic
Spectrometry
Updates

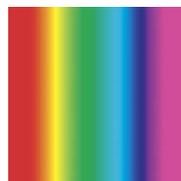


ATOMIC SPECTROMETRY UPDATES

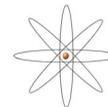
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Atomic spectrometry update: review of advances in X-ray fluorescence spectrometry and its special applications

Christine Vanhoof, Jeffrey R. Bacon, Ursula E. A. Fittschen and Laszlo Vincze



Atomic
Spectrometry
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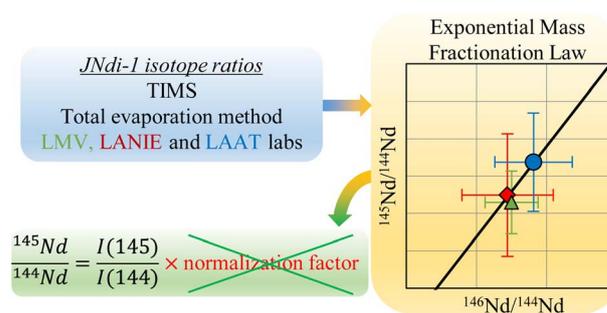
Fundamental questions
Elemental answers

TECHNICAL NOTE

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Reference value of the JNdi-1 isotopic material without normalization

Alexandre Quemet,* Guillaume Lasnier, Sébastien Mialle, H  l  ne Isnard, Maud Boyet, Marion Gar  on and Delphine Auclair

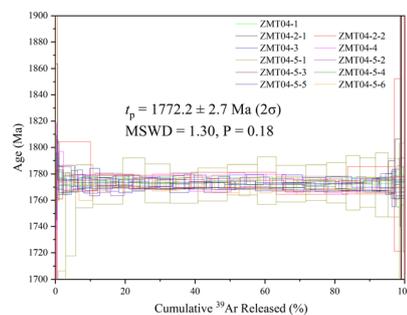


PAPERS

2173

ZMT04 muscovite: a potential Paleoproterozoic reference material for $^{40}\text{Ar}/^{39}\text{Ar}$ dating

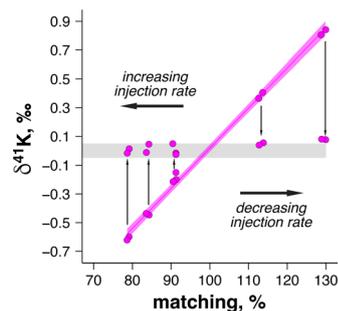
Wan-Feng Zhang,* De-Wen Zheng, Fred Jourdan, Adam Frew, Celia Mayers, Yi-Gang Xu, Huai-Yu He, Yan-Qiang Zhang, Jun-Jie Wang, Ying-De Jiang, Ming Xiao, Jun-Jie Li and Jia Zhang



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Routine measurement of high-precision potassium stable isotope compositions using a continuous-flow Neoma MC-ICPMS/MS

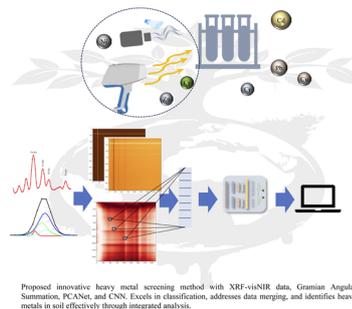
Emmanuelle Albalat, Philippe T  louk and Vincent Balter*



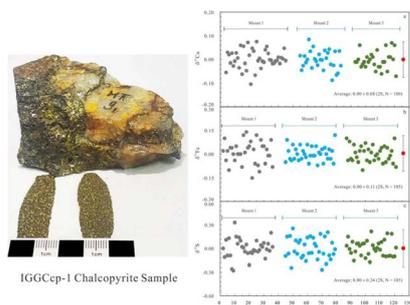
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Research on an XRF-visNIR soil heavy metal exceedance analysis method based on GAS transformation and PCANet

Qingya Wang,* Liangliang Tao, Fusheng Li, Zhichun Wu, Yaoyi Cai and Shubin Lyu



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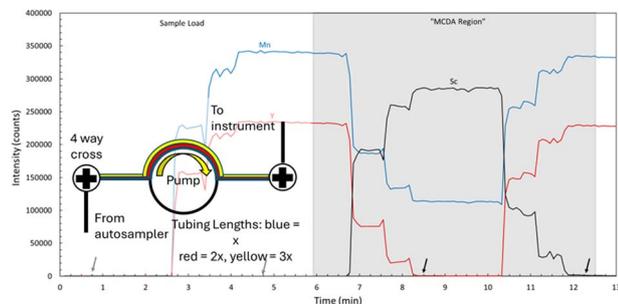


IGGCcp-1 Chalcopyrite Sample

A potential natural chalcopyrite reference material for *in situ* copper, iron, and sulfur isotope measurements

Lie-Wen Xie,* Hong-Rui Fan, Hui-Min Yu, Chao Huang, Lei Xu, Yue-Heng Yang, Shi-Tou Wu and Hao Wang

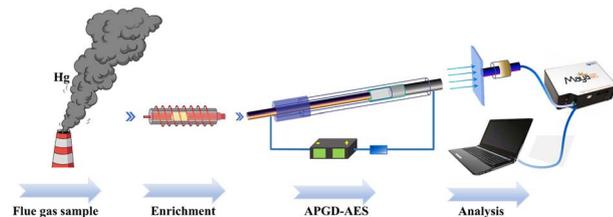
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Multi-channel dilution analysis

Willis B. Jones,* Robbie M. Huff, Adam L. Richardson, Taylor Dessoify, Sophie M. Lewis, Alexandria Eddy, Abigail J. Crossman and Bradley T. Jones

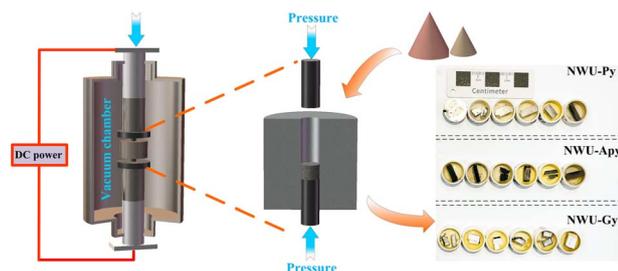
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Ultra-sensitive determination of mercury in flue gas by atmospheric pressure glow discharge atomic emission spectrometry coupled with gold amalgam enrichment

Meng Gao, Rong Rong, Zhaoqing Cai and Zheng Wang*

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Three new potential sulfur reference materials (pyrite, gypsum, and arsenopyrite) for *in situ* sulfur isotope analysis by laser ablation MC-ICP-MS

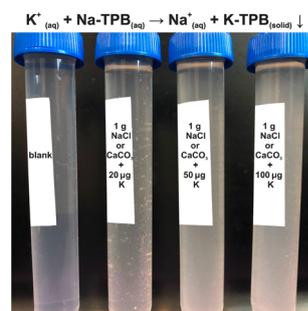
Deyi Peng, Zhian Bao, Kaiyun Chen, Nan Lv, Xiaojuan Nie, Jing Tian and Honglin Yuan*



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A novel method for extracting potassium (K) from K-poor and sodium-rich samples for high-precision stable K isotope analysis

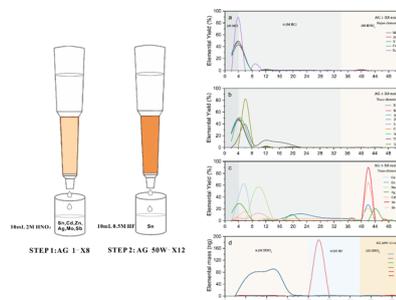
Xin-Yuan Zheng



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A novel chemical purification method for accurate Sn isotope measurement by MC-ICP-MS

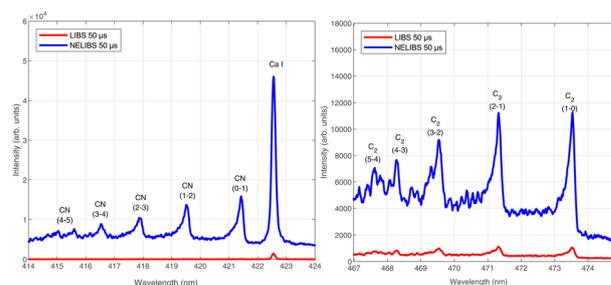
Qinyuan Qu, Wengang Liu, Wang Zheng, Benjamin Chetelat, Qingchuan Liu and Jiubin Chen*



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Investigation of signal enhancement in nanoparticle enhanced molecular LIBS of graphite

Swetapuspa Soumyashree* and Prashant Kumar

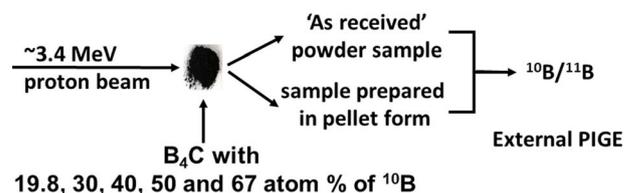


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Potential of external (in air) particle induced gamma-ray emission method for the preparation of isotopic composition of boron in-house reference standard in boron carbide matrix for quality control work

Sk Wasim Raja,* R. Acharya, Arati D. Sonawane, T. S. R. C. Murthy and S. Majumdar

Preparation of in-house reference standards for isotopic compositions of B in B₄C matrix by external PIGE



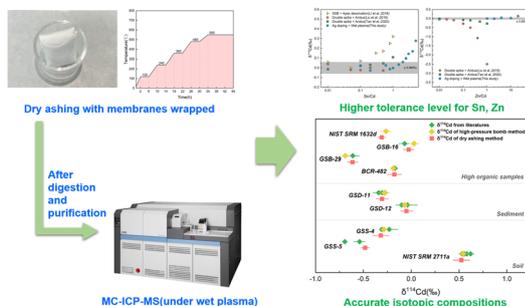
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Quality control in workshop production of NdFeB magnetic materials using an LIBS rare earth magnet instrument

Guanyu Chen, Bohao Su, Dongming Qu, Xueying Jin, Guang Yang,* Qingkai Li* and Tao Wang

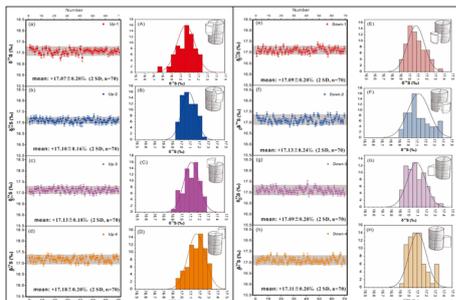
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Cadmium isotopes analysis of environmental samples with high organic matter by dry ashing method under wet plasma conditions

Xian Wu, Zeyu Wang, Guangyi Sun,* Yu Lin, Xuewu Fu,* Yang Tang and Xinbin Feng

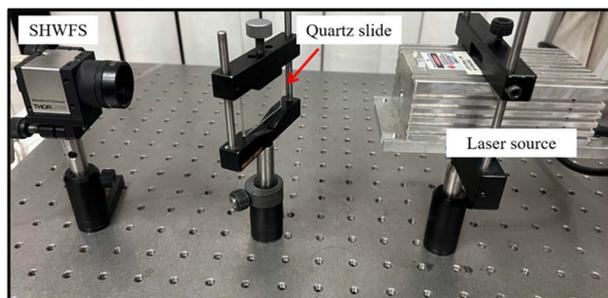
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A synthesized sphalerite standard for *in situ* analysis of sulfur isotopes and trace elements by LA-MC-ICP-MS and LA-ICP-MS

Zhi-hui Dai, Peng Liao, Deng-jun Wang, Sen Lin,* He-ping Li, Zhi-an Bao, Ke-jun Hou, Lie-meng Chen, Ting-guang Lan and Can Cui

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Wavefront-enhanced laser-induced breakdown spectroscopy (WELIBS) with lasers at multi-wavelengths via crystalline quartz

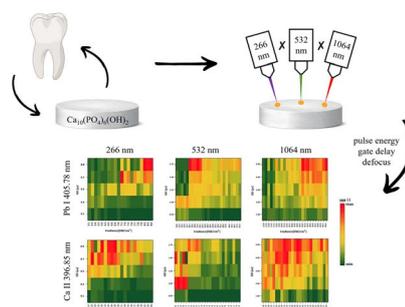
Asmaa Elhassan, Raghda Hosny El-Saeid, Rania M. Abdelazeem, Zienab Abdel-Salam and Mohamed Abdel-Harith*



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Investigating the effects of laser wavelengths and other ablation parameters on the detection of biogenic elements and contaminants in hydroxyapatite

Aida Fazlić, Anna Faruzelová, Jakub Buday, Lenka Michlovská, Lucy Vojtová, Pavlína Modlitbová, Pavel Pořízka* and Jozef Kaiser



CORRECTION

2340

Correction: (LA)-MC-ICPMS/MS measurement of Sr radiogenic isotope ratios

Philippe Télouk and Vincent Balter*

