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ISSN 0267-9477 CODEN JASPE2 40(1) 1–316 (2025)



#### Cover

See Yuzhu Liu, Jozef Lengyel *et al.*, pp. 114–121. Image reproduced by permission of Jun Feng, Yihui Yan and Yuzhu Liu from *J. Anal. At. Spectrom.*, 2025, **40**, 114. Image partly generated using BRIA AI.

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#### Atomic spectrometry update – a review of advances in environmental analysis

Warren R. L. Cairns, Owen T. Butler,\* Olga Cavoura, Christine M. Davidson, José-Luis Todolí-Torró and Marcus von der Au



Atomic Spectrometry Updates

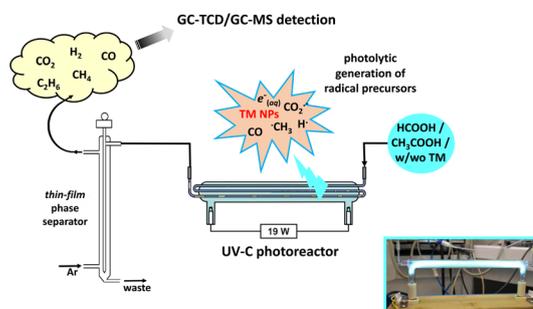


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#### Insights into the role of transition and noble metals mediating photochemical vapor generation

Ralph E. Sturgeon,\* Enea Pagliano, Gisele S. Lopes, Renato S. A. Neto and Jane K. S. Brito



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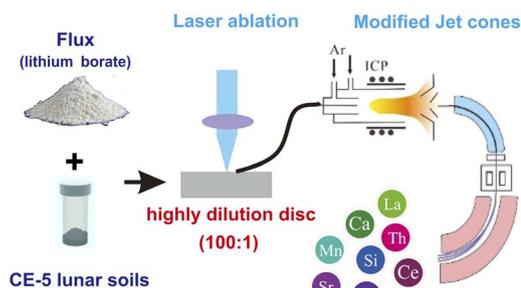
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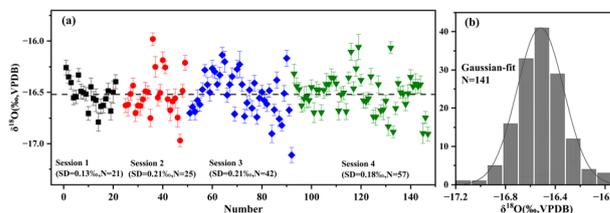
Shitou Wu,\* Dingshuai Xue, Yueheng Yang, Hao Wang, Chunlai Li and Fuyuan Wu



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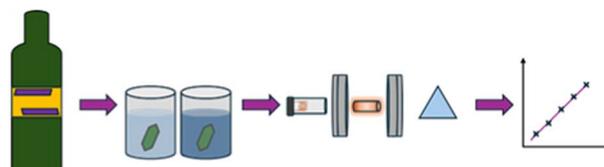
Xuna Yin, Miaohong He,\* Le Zhang,\* Wenfeng Deng, Yangrui Guo, Zexian Cui, Qing Yang, Yanqiang Zhang and Gangjian Wei



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Annika Schulze, Maximilian von Bremen-Kühne,\* Philipp Albert, Christoph Krösche and Cornel Venzago

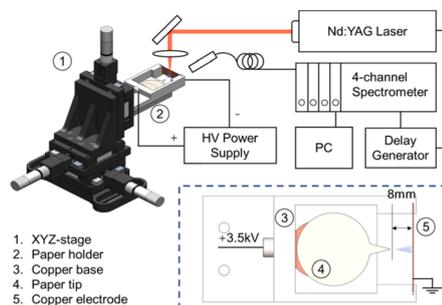


Si, leached from coated glass into food contact simulants, analyzed by GF-AAS. LOQ = 0.2 µg/L.

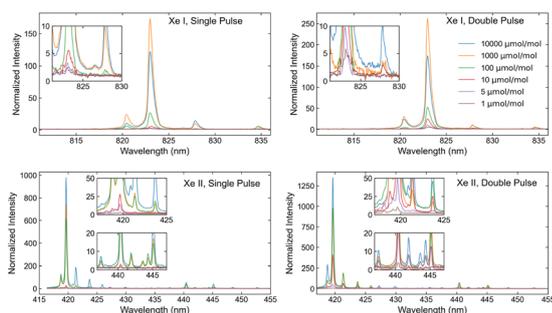
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### A simple method for elemental analysis of liquids in sprayed microdroplets by laser-induced breakdown spectroscopy

Jun Feng, Yihui Yan, Yuzhu Liu\* and Jozef Lengyel\*



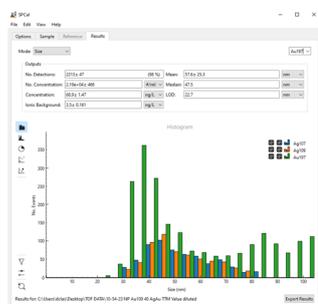
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L. Garrett,\* M. Burger, Y. Lee, H. Kim, P. Sabharwall, S. Choi and I. Jovanovic

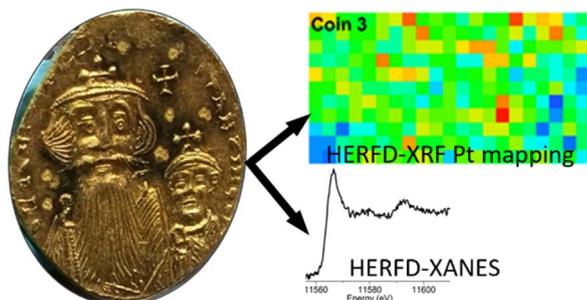
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Thomas E. Lockwood, Lukas Schlatt and David Clases\*

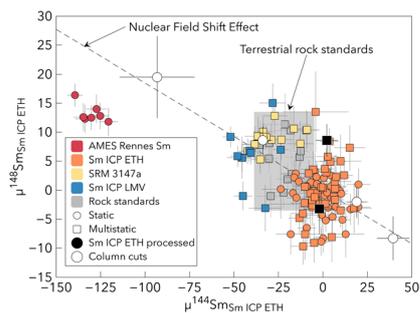
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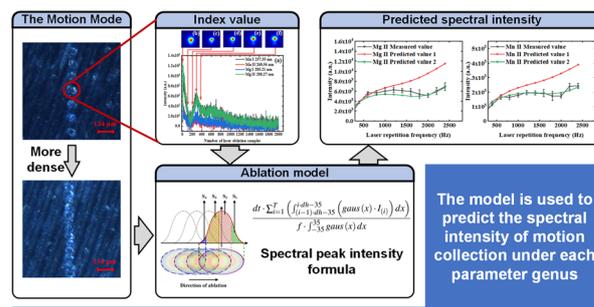
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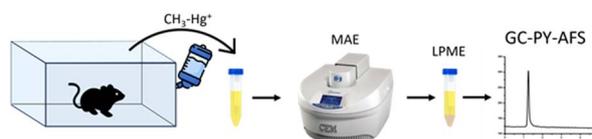
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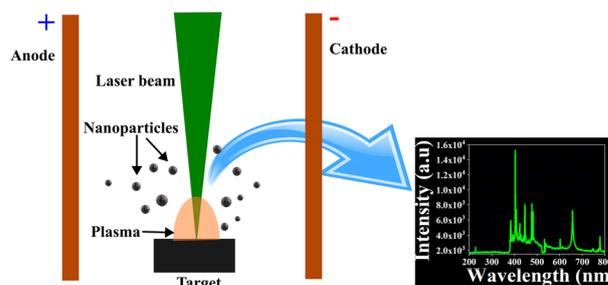
Marcelo Verdugo,\* Ferdinand Ávila, Jhoel Ruiz, Constanza Vásquez, Nicole Roldán, M. Gabriela Lobos and Álvaro O. Ardiles



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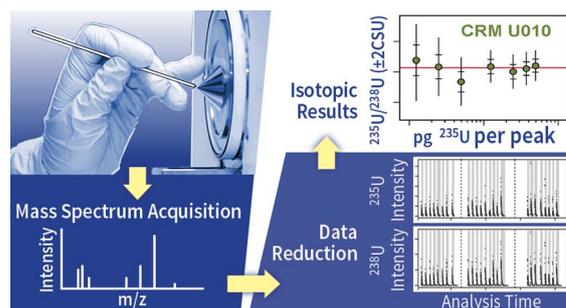
Sanchia Mae Kharphanbuh and Arpita Nath\*



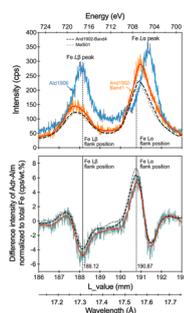
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Shelby Bowden,\* Kyle M. Samperton, Elizabeth D. LaBone, Haley B. Lawton, Abigail M. Waldron, Joseph M. Mannion, Matthew S. Wellons and Danielle R. Mannion



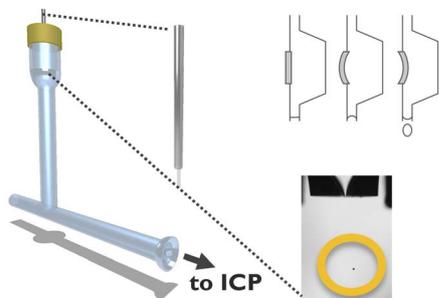
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Yonghua Cao, Chang-Ming Xing,\* Christina Yan Wang, Xianquan Ping and Xiaoju Lin

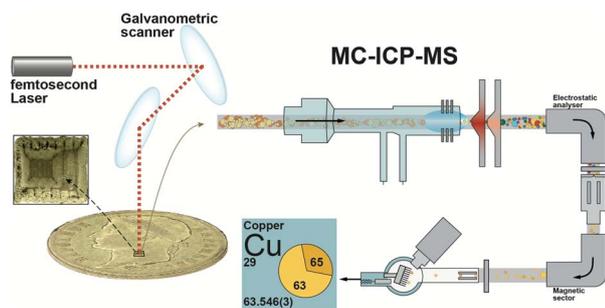
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### Quantitative elemental analysis of human leukemia K562 single cells by inductively coupled plasma mass spectrometry in combination with a microdroplet generator

Yu-ki Tanaka,\* Hinano Katayama, Risako Iida and Yasumitsu Ogra

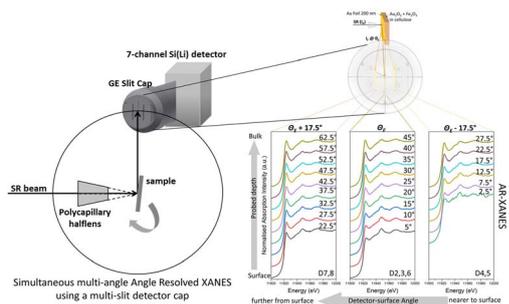
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Louise de Palaminy,\* Franck Poitrasson, Christophe Pécheyan, Gaëlle Barbotin, Pascale Louvat, Sylvain Bérail, Anne-Laure Ronzani, Luc Robbiola and Sandrine Baron

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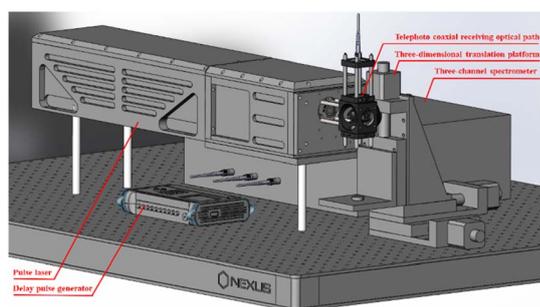
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Maram Na'es,\* Lars Lühl, Daniel Grötzsch, Ioanna Mantouvalou, Jonas Baumann and Birgit Kanngießer





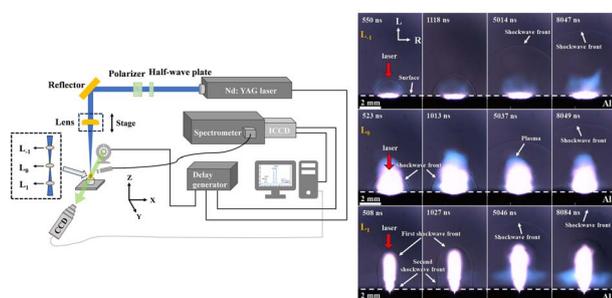
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## An accurate quantitative method for NdFeB magnetism based on laser-induced breakdown spectroscopy

Guanyu Chen, Jing Chen, Dongming Qu, Guang Yang\* and Huihui Sun\*

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Huihui Zhu, Bowen Fan, Yubo Zhang, Zhuo Wu, Fuli Chen, Xiaohui Su and Tao Lü\*

