

IN THIS ISSUE

ISSN 0267-9477 CODEN JASPE2 39(4) 987–1178 (2024)



Cover

See Frank Vanhaecke *et al.*, pp. 1050–1056. Image reproduced by permission of Frank Vanhaecke from *J. Anal. At. Spectrom.*, 2024, **39**, 1050.



Inside cover

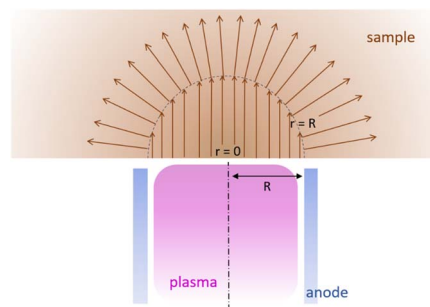
See Davide Bleiner, pp. 1057–1069. Image reproduced by permission of Davide Bleiner from *J. Anal. At. Spectrom.*, 2024, **39**, 1057.

COMMUNICATION

996

Analysis of hydrogen in a hydrogenated, 3D-printed Ti–6Al–4V alloy by glow discharge optical emission spectroscopy: sample heating effects

Zdeněk Weiss,* Jaroslav Čapek, Zdeněk Kačenka, Ondřej Ekrt, Jaromír Kopeček, Monika Losertová and Dalibor Vojtěch

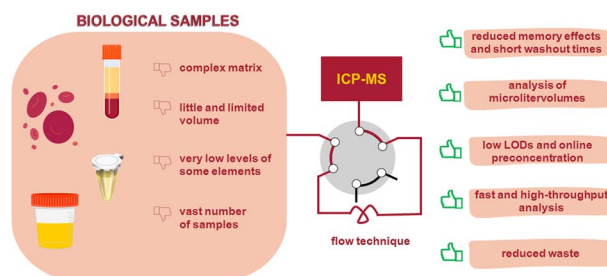


TUTORIAL REVIEW

1004

Flow techniques in the analysis of biological samples by inductively coupled plasma mass spectrometry – a review

Ewelina Kowa, Anna Telk* and Marcin Wiczorek



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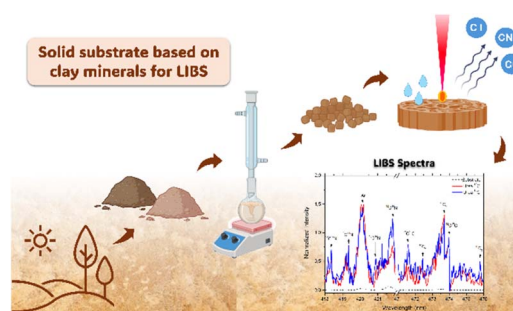
Fundamental questions
Elemental answers

TECHNICAL NOTES

1024

A solid substrate based on clay minerals for sampling organic liquids in molecular LIBS analysis

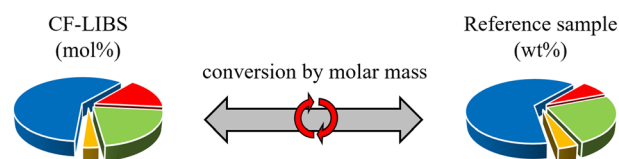
Layla P. Santos, José F. Q. Pereira and Ivo M. Raimundo, Jr*



1030

Mass and mole fractions in calibration-free LIBS

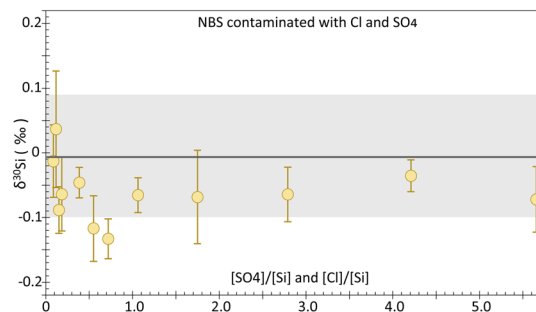
Tobias Völker* and Igor B. Gornushkin



1033

Assessment of matrix effects induced by chloride, sulfate and dissolved organic carbon during Si isotope measurements by MC-ICP-MS under wet plasma conditions

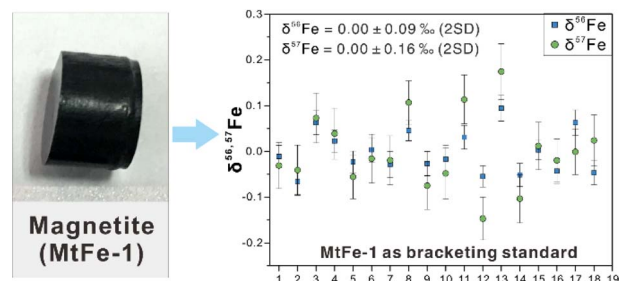
Sofía López-Urzúa,* Tu-Han Luu and Louis Derry



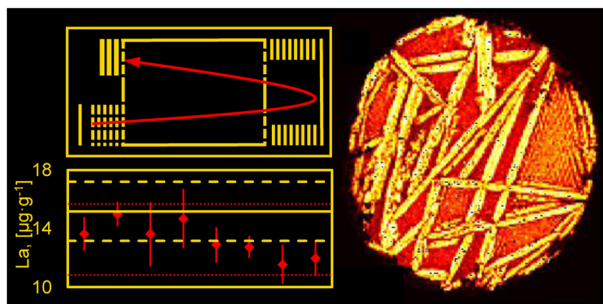
1043

A magnetite reference material for *in situ* Fe isotope analysis

Xiao-Wen Huang, Sen Lin,* Kaiyun Chen,* Jin-Ting Kang, Zhi-Hong Li, Yu-Miao Meng and Liang Qi



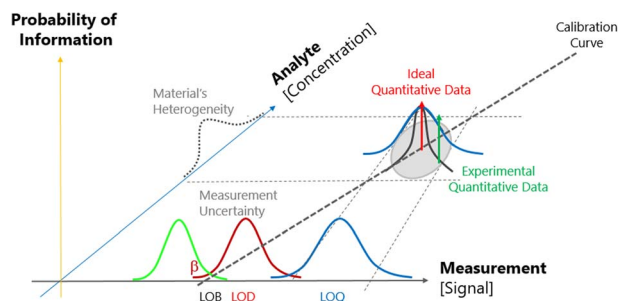
1050



Analytical capabilities of LA-ICP-ToF-MS for ultra-fast 2D quantitative elemental mapping of micrometeorites

Stepan M. Chernonozhkin, Thibaut Van Acker, Stijn J. M. Van Malderen, Joke Belza, Steven Goderis and Frank Vanhaecke*

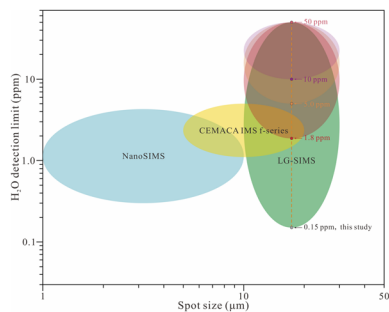
1057



Nano-imaging mass spectrometry by means of high-energy laser desorption ionization (HELDI)

Davide Bleiner

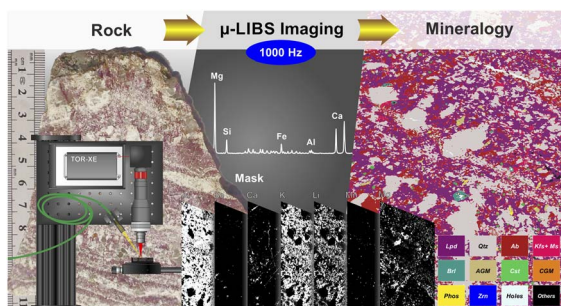
1070



Ultralow H₂O content analysis with a large-geometry secondary ion mass spectrometer

Zexian Cui, Xiao-Ping Xia,* Qing Yang,* Kai Zhang, Xiaozhi Yang, Chun-Kit Lai, Wan-Feng Zhang, Yan-Qiang Zhang and Ya-Nan Yang

1077



Ultrafast μ LIBS imaging for the multiscale mineralogical characterization of pegmatite rocks

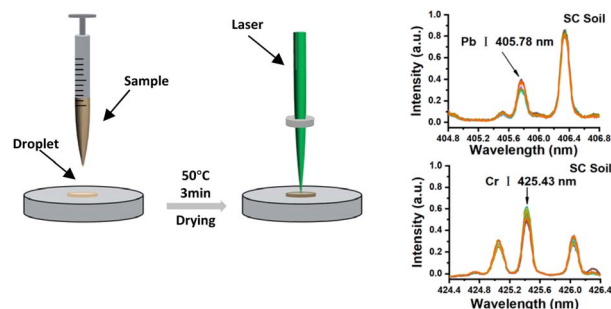
Cesar Alvarez-Llamas,* Adrian Tercier, Christophe Ballouard, Cecile Fabre, Sylvain Hermelin, Jeremie Margueritat, Ludovic Duponchel, Christophe Dujardin and Vincent Motto-Ros*



1087

Decreasing the effect of soil particle size on heavy metal measurement stability using a method involving laser-induced breakdown spectroscopy and solid-phase conversion

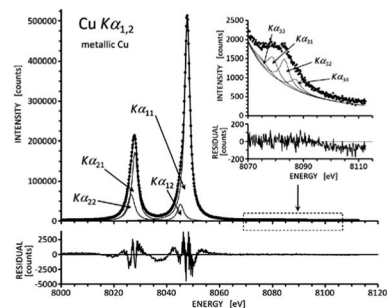
Changbo Song, Peng Lin, Shixiang Ma,* Fanghao Xu, Xuelin Wen, Xinglan Fu and Daming Dong



1094

Natural linewidths of Cu $K\alpha_{1,2}$ spectra obtained with an antiparallel double-crystal X-ray spectrometer

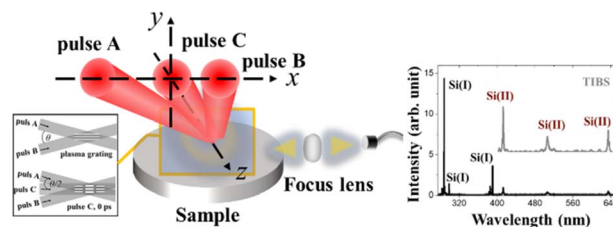
Yoshiaki Ito, Tatsunori Tochio, Michiru Yamashita, Sei Fukushima, Łukasz Syrocki, Katarzyna Słabkowska, Marek Polasik, José Pires Marques and Fernando Parente*



1102

Filament induced breakdown spectroscopy with enhanced excitations from plasma gratings

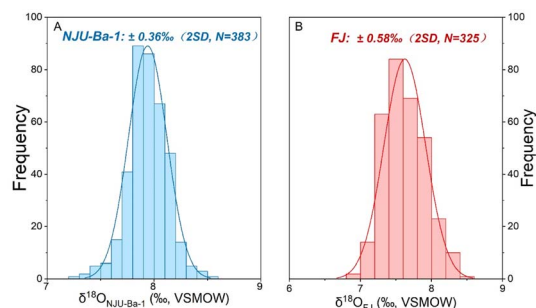
Fangfang Li, Mengyun Hu,* Yu Qiao, Shupeng Xu, Enlai Wan and Heping Zeng*



1110

Barite oxygen isotope reference materials for highly precise and accurate SIMS microanalysis

Lan-Lan Tian, Yue Guan, Wen-Li Xie, Kexin Xu, Feng-Tai Tong, Tao Yang, Yong-Bo Peng and Xiao-Lei Wang*

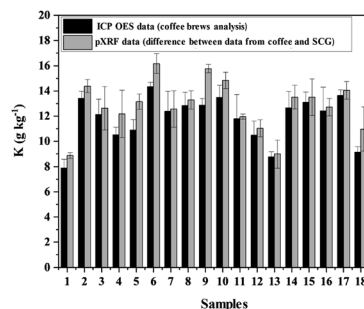


PAPERS

1152

A simple and reliable calibration method for direct analysis of ground-roasted coffee by portable XRF: an accurate analytical tool for total diet studies

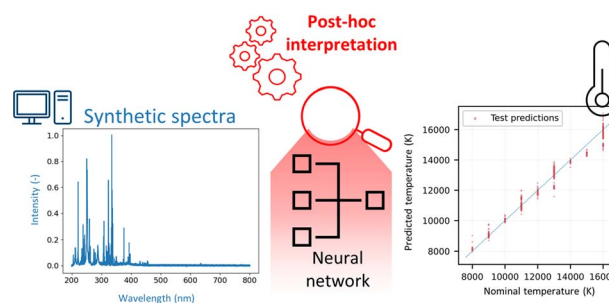
Nayza Ferreira Santos,
Luiz Roberto Guimarães Guilherme,
Marco Aurélio Carbone Carneiro and
Marcelo Braga Bueno Guerra*



1160

Interpreting neural networks trained to predict plasma temperature from optical emission spectra

Erik Képeš,* Homa Saeidfirozeh, Vojtěch Laitl,
Jakub Vrâbel, Petr Kubelík, Pavel Pořizka,* Martin Ferus
and Jozef Kaiser



CORRECTION

1175

Correction: High-precision measurement of Cd isotopes in ultra-trace Cd samples using double spike-standard addition MC-ICP-MS

Hui Chang, Jian-Ming Zhu,* Xiangli Wang and Ting Gao

