

Detlef GÃ¼nther

List of Publications by Year in descending order

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143
papers

14,987
citations

43973

48
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18075

120
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146
docs citations

146
times ranked

11896
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ analysis of major and trace elements of anhydrous minerals by LA-ICP-MS without applying an internal standard. <i>Chemical Geology</i> , 2008, 257, 34-43.	1.4	3,342
2	Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. <i>Nature Methods</i> , 2014, 11, 417-422.	9.0	1,430
3	Determination of Reference Values for NIST SRM 610-617 Glasses Following ISO Guidelines. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 397-429.	1.7	1,371
4	Inter-laboratory note. Laser ablation inductively coupled plasma mass spectrometric transient signal data acquisition and analyte concentration calculation. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 899-904.	1.6	1,342
5	Solid sample analysis using laser ablation inductively coupled plasma mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 255-265.	5.8	432
6	Capabilities of an Argon Fluoride 193 nm Excimer Laser for Laser Ablation Inductively Coupled Plasma Mass Spectrometry Microanalysis of Geological Materials. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 939-944.	1.6	386
7	Effect of particle size distribution on ICP-induced elemental fractionation in laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 831-837.	1.6	324
8	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 63-74.	8.8	308
9	Review of the State-of-the-Art of Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2011, 65, 155-162.	1.2	221
10	Elemental fractionation in laser ablation-inductively coupled plasma-mass spectrometry: evidence for mass load induced matrix effects in the ICP during ablation of a silicate glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 51-62.	1.6	202
11	The influence of ablation carrier gases Ar, He and Ne on the particle size distribution and transport efficiencies of laser ablation-induced aerosols: implications for LA-ICP-MS. <i>Applied Surface Science</i> , 2003, 207, 144-157.	3.1	176
12	Fast Chemical Imaging at High Spatial Resolution by Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 10107-10116.	3.2	174
13	Wavelength dependant ablation rates for metals and silicate glasses using homogenized laser beam profiles - implications for LA-ICP-MS. <i>Applied Surface Science</i> , 2001, 182, 91-102.	3.1	164
14	Critical revision of GD-MS, LA-ICP-MS and SIMS as inorganic mass spectrometric techniques for direct solid analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1145.	1.6	153
15	A prototype of a new inductively coupled plasma time-of-flight mass spectrometer providing temporally resolved, multi-element detection of short signals generated by single particles and droplets. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 226-233.	1.6	150
16	Laser ablation-ICP-MS: particle size dependent elemental composition studies on filter-collected and online measured aerosols from glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1158-1164.	1.6	148
17	Mobility and H ₂ O loss from fluid inclusions in natural quartz crystals. <i>Contributions To Mineralogy and Petrology</i> , 1999, 137, 1-14.	1.2	141
18	Elemental Fractionation Studies in Laser Ablation Inductively Coupled Plasma Mass Spectrometry on Laser-Induced Brass Aerosols. <i>Analytical Chemistry</i> , 2003, 75, 747-753.	3.2	140

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19	Capabilities of inductively coupled plasma mass spectrometry for the detection of nanoparticles carried by monodisperse microdroplets. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1166.	1.6	137
20	Peer Reviewed: Laser Ablation-ICPMS. <i>Analytical Chemistry</i> , 2003, 75, 341 A-347 A.	3.2	134
21	Single-particle multi-element fingerprinting (spMEF) using inductively-coupled plasma time-of-flight mass spectrometry (ICP-TOFMS) to identify engineered nanoparticles against the elevated natural background in soils. <i>Environmental Science: Nano</i> , 2017, 4, 307-314.	2.2	128
22	Comparison of laser ablation ICP-MS and isotope dilution REE analyses – implications for Sm–Nd garnet geochronology. <i>Chemical Geology</i> , 2000, 168, 255-274.	1.4	117
23	Characterization of a new ICP-TOFMS instrument with continuous and discrete introduction of solutions. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 548-561.	1.6	117
24	Fundamental studies on the ablation behaviour of carbon in LA-ICP-MS with respect to the suitability as internal standard. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1294.	1.6	112
25	A local aerosol extraction strategy for the determination of the aerosol composition in laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1192.	1.6	111
26	Elemental Analyses Using Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS) of Geological Samples Fused with Li ₂ B ₄ O ₇ and Calibrated Without Matrix-Matched Standards. <i>Mikrochimica Acta</i> , 2001, 136, 101-107.	2.5	98
27	Modal metasomatism in the Kaapvaal craton lithosphere: constraints on timing and genesis from U-Pb zircon dating of metasomatized peridotites and MARID-type xenoliths. <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 704-719.	1.2	87
28	A New Microfluidics-Based Droplet Dispenser for ICPMS. <i>Analytical Chemistry</i> , 2014, 86, 6012-6018.	3.2	86
29	Simultaneous Mass Quantification of Nanoparticles of Different Composition in a Mixture by Microdroplet Generator-ICPTOFMS. <i>Analytical Chemistry</i> , 2014, 86, 8142-8148.	3.2	86
30	Characteristics and capabilities of an ICP-MS with a dynamic reaction cell for dry aerosols and laser ablation. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1125-1131.	1.6	85
31	Determination of sulfur in fluid inclusions by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1581.	1.6	83
32	High-Speed, High-Resolution, Multielemental Laser Ablation-Inductively Coupled Plasma-Time-of-Flight Mass Spectrometry Imaging: Part I. Instrumentation and Two-Dimensional Imaging of Geological Samples. <i>Analytical Chemistry</i> , 2015, 87, 8250-8258.	3.2	76
33	Development and Evaluation of a Standard Method for the Quantitative Determination of Elements in Float Glass Samples by LA-ICP-MS. <i>Journal of Forensic Sciences</i> , 2005, 50, 1-15.	0.9	73
34	Deep and bottom water export from the Southern Ocean to the Pacific over the past 38 million years. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	72
35	Toward faster and higher resolution LA-ICPMS imaging: on the co-evolution of LA cell design and ICPMS instrumentation. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2687-2695.	1.9	72
36	Mass Quantification of Nanoparticles by Single Droplet Calibration Using Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 5875-5883.	3.2	71

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37	Quantitative analysis of Fe-based samples using ultraviolet nanosecond and femtosecond laser ablation-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1194-1201.	1.6	70
38	High-Speed, High-Resolution, Multielemental LA-ICP-TOFMS Imaging: Part II. Critical Evaluation of Quantitative Three-Dimensional Imaging of Major, Minor, and Trace Elements in Geological Samples. <i>Analytical Chemistry</i> , 2015, 87, 8259-8267.	3.2	70
39	Phenomenological studies on structure and elemental composition of nanosecond and femtosecond laser-generated aerosols with implications on laser ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 812-822.	1.5	67
40	Self-Assembly of Metal and Metal Oxide Nanoparticles and Nanowires into a Macroscopic Ternary Aerogel Monolith with Tailored Photocatalytic Properties. <i>Chemistry of Materials</i> , 2014, 26, 5576-5584.	3.2	67
41	Quadrupole mass spectrometry and optical emission spectroscopy: detection capabilities and representative sampling of short transient signals from laser-ablation. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1149-1155.	1.6	62
42	Gold adsorption on the carbon surface of C/Co nanoparticles allows magnetic extraction from extremely diluted aqueous solutions. <i>Journal of Materials Chemistry</i> , 2009, 19, 8239.	6.7	57
43	Identification of growth mechanisms in metamorphic garnet by high-resolution trace element mapping with LA-ICP-TOFMS. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	1.2	57
44	Quantitative analysis of glass using inductively coupled plasma atomic emission and mass spectrometry, laser micro-analysis inductively coupled plasma atomic emission spectrometry and laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 251-254.	1.6	53
45	Effects of operating conditions and matrix on mass bias in MC-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 637.	1.6	53
46	Monte Carlo Simulation of Low-Count Signals in Time-of-Flight Mass Spectrometry and Its Application to Single-Particle Detection. <i>Analytical Chemistry</i> , 2018, 90, 11847-11855.	3.2	53
47	Fundamental studies on the ablation behaviour of Pb/U in NIST 610 and zircon 91500 using laser ablation inductively coupled plasma mass spectrometry with respect to geochronology. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 21-27.	1.6	50
48	Characterization of calibration materials for trace element analysis and fingerprint studies of gold using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 476.	1.6	49
49	Capabilities of laser ablation inductively coupled plasma time-of-flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1946-1959.	1.6	49
50	Direct lead isotope analysis in Hg-rich sulfides by LA-MC-ICP-MS with a gas exchange device and matrix-matched calibration. <i>Analytica Chimica Acta</i> , 2016, 948, 9-18.	2.6	48
51	Single-particle ICP-MS with online microdroplet calibration: toward matrix independent nanoparticle sizing. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 716-728.	1.6	48
52	Capabilities of a homogenized 266 nm Nd:YAG laser ablation system for LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 8-14.	1.6	47
53	Correlation of Growth and Breakdown of Major and Accessory Minerals in Metapelites from Campolungo, Central Alps. <i>Journal of Petrology</i> , 2011, 52, 2293-2334.	1.1	46
54	Development of direct atmospheric sampling for laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 142.	1.6	44

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55	The uncertainty budget of the multi-element analysis of glasses using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 122-130.	1.6	43
56	Vaporization and ionization of laser ablation generated aerosols in an inductively coupled plasma mass spectrometer—implications from ion distribution maps. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1143-1151.	1.6	42
57	Femtosecond laser ablation-ICP-mass spectrometry analysis of a heavy metallic matrix: Determination of platinum group metals and gold in lead fire-assay buttons as a case study. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1259.	1.6	42
58	Experimental partitioning of halogens and other trace elements between olivine, pyroxenes, amphibole and aqueous fluid at 2 ÅGPa and 900 Å€“1,300 Å°C. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 639-653.	1.2	39
59	An internal standardisation strategy for quantitative immunoassay tissue imaging using laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 254-259.	1.6	39
60	Performance of sp-ICP-TOFMS with signal distributions fitted to a compound Poisson model. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1900-1909.	1.6	38
61	Portable Laser Ablation Sampling Device for Elemental Fingerprinting of Objects Outside the Laboratory with Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 5358-5364.	3.2	36
62	Investigation of a Combined Microdroplet Generator and Pneumatic Nebulization System for Quantitative Determination of Metal-Containing Nanoparticles Using ICPMS. <i>Analytical Chemistry</i> , 2015, 87, 8687-8694.	3.2	36
63	Accelerated evaporation of microdroplets at ambient conditions for the on-line analysis of nanoparticles by inductively-coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1707.	1.6	35
64	Comparison of 795 nm and 265 nm femtosecond and 193 nm nanosecond laser ablation inductively coupled plasma mass spectrometry for the quantitative multi-element analysis of glass materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1345.	1.6	35
65	Comparison of sp-ICP-MS and MDG-ICP-MS for the determination of particle number concentration. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4035-4044.	1.9	32
66	Analysis of Inorganic Nanoparticles by Single-particle Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. <i>Chimia</i> , 2018, 72, 221.	0.3	32
67	Development and characterization of custom-engineered and compacted nanoparticles as calibration materials for quantification using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 955-962.	1.6	31
68	Reassessment of the influence of carrier gases He and Ar on signal intensities in 193 Ånm excimer LA-ICP-MS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1655-1663.	1.6	31
69	Magnetic anisotropy of carbonate minerals at room temperature and 77 K. <i>American Mineralogist</i> , 2007, 92, 1673-1684.	0.9	29
70	Aerosol entrainment and a large-capacity gas exchange device (Q-GED) for laser ablation inductively coupled plasma mass spectrometry in atmospheric pressure air. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 831.	1.6	29
71	The effect of carrier gas humidity on the vaporization of laser-produced aerosols in inductively coupled plasmas. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 280-286.	1.6	29
72	High-resolution, Quantitative Element Imaging of an Upper Crust, Low-angle Cataclasite (Zuccale Fault), Tj ETQq0 0 0 rgBT /Overlock and Geoanalytical Research, 2018, 42, 559-574.	1.7	29

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73	Selective Dating of Paint Components: Radiocarbon Dating of Lead White Pigment. <i>Radiocarbon</i> , 2019, 61, 473-493.	0.8	29
74	Diffusion- and velocity-driven spatial separation of analytes from single droplets entering an ICP off-axis. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 262-271.	1.6	28
75	Detecting and Number Counting of Single Engineered Nanoparticles by Digital Particle Polymerase Chain Reaction. <i>ACS Nano</i> , 2015, 9, 9564-9572.	7.3	28
76	A laser ablation system for the analysis of radioactive samples using inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 399-402.	1.6	27
77	New spinel oxide catalysts for visible-light-driven water oxidation. <i>RSC Advances</i> , 2012, 2, 3076.	1.7	27
78	Signal enhancement in laser ablation inductively coupled plasma-mass spectrometry using water and/or ethanol vapor in combination with a shielded torch. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 536.	1.6	26
79	Single-particle ICP-TOFMS with online microdroplet calibration for the simultaneous quantification of diverse nanoparticles in complex matrices. <i>Environmental Science: Nano</i> , 2019, 6, 3349-3358.	2.2	26
80	Experimental chlorine partitioning between forsterite, enstatite and aqueous fluid at upper mantle conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 684-700.	1.6	25
81	Occurrence of gas flow rotational motion inside the ICP torch: a computational and experimental study. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 249-261.	1.6	25
82	Color mechanisms in spinel: cobalt and iron interplay for the blue color. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 431-439.	0.3	25
83	In torch laser ablation sampling for inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 987.	1.6	24
84	Microwave-Hydrothermal Synthesis of Nanostructured Zinc-Copper Gallates. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2036-2043.	1.0	24
85	Quantitative Recovery of Magnetic Nanoparticles from Flowing Blood: Trace Analysis and the Role of Magnetization. <i>Advanced Functional Materials</i> , 2013, 23, 4888-4896.	7.8	23
86	Isotope ratio determination of objects in the field by portable laser ablation sampling and subsequent multicollector ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 801.	1.6	22
87	Using the stable isotope marker ^{44}Ca to study dispersal and host-foraging activity in parasitoids. <i>Journal of Applied Ecology</i> , 2006, 43, 1031-1039.	1.9	21
88	Visualization, velocimetry, and mass spectrometric analysis of engineered and laser-produced particles passing through inductively coupled plasma sources. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 619.	1.6	21
89	Laser Ablation $\delta^{14}\text{C}$ Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. <i>Analytical Chemistry</i> , 2016, 88, 8570-8576.	3.2	21
90	In torch laser ablation sampling for inductively coupled plasma time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 941-947.	1.6	20

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91	Early plume and shock wave dynamics in atmospheric-pressure ultraviolet-laser ablation of different matrix-assisted laser ablation matrices. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	20
92	Combined ¹⁴ C Analysis of Canvas and Organic Binder for Dating a Painting. <i>Radiocarbon</i> , 2018, 60, 207-218.	0.8	20
93	Capabilities of automated LA-ICP-TOFMS imaging of geological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2255-2266.	1.6	20
94	Replacing the Argon ICP: Nitrogen Microwave Inductively Coupled Atmospheric-Pressure Plasma (MICAP) for Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 13443-13450.	3.2	19
95	Emerging investigator series: automated single-nanoparticle quantification and classification: a holistic study of particles into and out of wastewater treatment plants in Switzerland. <i>Environmental Science: Nano</i> , 2021, 8, 1211-1225.	2.2	19
96	Improving detection capability for single particle inductively coupled plasma mass spectrometry with microdroplet sample introduction. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 233-242.	1.6	19
97	Tellurium isotope compositions of calcium-aluminum-rich inclusions. <i>Meteoritics and Planetary Science</i> , 2009, 44, 971-984.	0.7	18
98	Numerical simulation analysis of flow patterns and particle transport in the HEAD laser ablation cell with respect to inductively coupled plasma spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 295.	1.6	18
99	Characterization of inductively coupled plasma time-of-flight mass spectrometry in combination with collision/reaction cell technology – insights from highly time-resolved measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 135-146.	1.6	18
100	Influence of transport tube materials on signal response and drift in laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1247.	1.6	17
101	Abundance and Impact of Doubly Charged Polyatomic Argon Interferences in ICPMS Spectra. <i>Analytical Chemistry</i> , 2016, 88, 7281-7288.	3.2	17
102	<i>In vivo</i> risk evaluation of carbon-coated iron carbide nanoparticles based on short- and long-term exposure scenarios. <i>Nanomedicine</i> , 2016, 11, 783-796.	1.7	17
103	Skip the beat: minimizing aliasing error in LA-ICP-MS measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 591-602.	1.9	17
104	Determining isotope ratios using laser ablation sampling in air with MC-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1513.	1.6	16
105	Intracavitary cisplatin-fibrin chemotherapy after surgery for malignant pleural mesothelioma: A phase I trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 330-340.e4.	0.4	16
106	Parallel flow ablation cell for short signal duration in LA-ICP-TOFMS element imaging. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 677-683.	1.6	16
107	Signal acquisition in Ås time resolution for in-torch LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1189.	1.6	15
108	Novel sampling techniques for trace element quantification in ancient copper artifacts using laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Archaeological Science</i> , 2017, 82, 62-71.	1.2	13

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109	Analysis of xenon gas inclusions in nuclear fuel using laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1266.	1.6	12
110	A laser ablation millisecond-pulsed glow discharge time-of flight mass spectrometer (LA-GD-TOFMS) for quasi-simultaneous elemental and molecular analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1416.	1.6	12
111	Direct analysis of ultra-trace semiconductor gas by inductively coupled plasma mass spectrometry coupled with gas to particle conversion-gas exchange technique. <i>Analytica Chimica Acta</i> , 2015, 891, 73-78.	2.6	12
112	Water dispersible surface-functionalized platinum/carbon nanorattles for size-selective catalysis. <i>Chemical Science</i> , 2018, 9, 362-367.	3.7	12
113	An Rf-only ion funnel interface for ion cooling in laser ablation time of flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 57-68.	1.5	12
114	Development and evaluation of a standard method for the quantitative determination of elements in float glass samples by LA-ICP-MS. <i>Journal of Forensic Sciences</i> , 2005, 50, 1327-41.	0.9	12
115	Highly-sensitive open-cell LA-ICPMS approaches for the quantification of rare earth elements in natural carbonates at parts-per-billion levels. <i>Analytica Chimica Acta</i> , 2018, 1018, 54-61.	2.6	11
116	LA-ICP-MS using a nitrogen plasma source. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1750-1757.	1.6	11
117	Fundamental studies on droplet throughput and the analysis of single cells using a downward-pointing ICP-time-of-flight mass spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2617-2630.	1.6	11
118	Mass Spectrometric Observation of Doubly Charged Alkaline-Earth Argon Ions. <i>ChemPhysChem</i> , 2016, 17, 2640-2644.	1.0	10
119	Expanding the OD Rb 7 M 3 X 16 (M=Sb, Bi; X=Br, I) Family: Dual-Band Luminescence in Rb 7 Sb 3 Br 16. <i>Helvetica Chimica Acta</i> , 2021, 104, e2000206.	1.0	10
120	Stoichiometry of various Ag(In)SbTe phase change materials (PCMs) determined using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 217-222.	1.6	9
121	Capabilities of sequential and quasi-simultaneous LA-ICPMS for the multi-element analysis of small quantity of liquids (pl to nl): insights from fluid inclusion analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1945-1969.	1.6	9
122	Demonstrating Rapid Qualitative Elemental Analyses of Participant-Supplied Objects at a Public Outreach Event. <i>Journal of Chemical Education</i> , 2016, 93, 1749-1753.	1.1	9
123	Investigation of multi-layered silicate ceramics using laser ablation optical emission spectrometry, laser ablation inductively coupled plasma mass spectrometry, and electron microprobe analysis. <i>Chemical Papers</i> , 2011, 65, .	1.0	8
124	Rapid screening of boron isotope ratios in nuclear shielding materials by LA-ICPMS – a comparison of two different instrumental setups. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 185-192.	1.6	8
125	Variable aperture extraction lens for ion beam investigation in inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1329-1335.	1.6	8
126	Optimizing the analyte introduction for ¹⁴ C laser ablation-AMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1813-1819.	1.6	8

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127	Forensic float glass fragment analysis using single-pulse laser ablation inductively coupled plasma time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2248-2254.	1.6	8
128	New Orientation: A Downward-pointing Vertical Inductively Coupled Plasma Mass Spectrometer for the Analysis of Microsamples. <i>Analytical Chemistry</i> , 2021, 93, 1001-1008.	3.2	8
129	Gas to Particle Conversion-Gas Exchange Technique for Direct Analysis of Metal Carbonyl Gas by Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 10025-10029.	3.2	7
130	A method for the preservation and determination of welding fume nanoparticles in exhaled breath condensate. <i>Environmental Science: Nano</i> , 2016, 3, 357-364.	2.2	6
131	Effects of H ₂ O- and O ₂ -containing He carrier gases on the ²⁰⁶ Pb/ ²³⁸ U system bias and down-hole fractionation in LA-ICPMS of zircon. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2238-2245.	1.6	6
132	Tracking mass removal of portable laser ablation sampling by its acoustic response. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 179, 106118.	1.5	6
133	Quantitative determination of nitrogen by LA-ICP-MS using ¹⁵ N enriched binary calcium nitrides. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 856.	1.6	5
134	Fingerprint of tropical climate variability and sea level in sediments of the Cariaco Basin during the last glacial period. <i>Sedimentology</i> , 2019, 66, 1967-1988.	1.6	5
135	Lone-Pair-Induced Structural Ordering in the Mixed-Valent OD Metal-Halides Rb ₂₃ Bi ^{III} ₃ Sb ^{III} ₇ Sb ^V ₂ Cl ₂₈ (0.7%). <i>Chemistry of Materials</i> , 2021, 33, 2408-2419.		
136	Listening with Curiosity – Tracking the Acoustic Response of Portable Laser Ablation. <i>Chimia</i> , 2021, 75, 300.	0.3	5
137	On video lectures during remote teaching and beyond. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3301-3309.	1.9	3
138	Direct analysis of nanoparticles in organic solvents by ICPMS with microdroplet injection. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1738-1750.	1.6	3
139	Plasma quenching during hydrocarbon sample introduction via gas chromatography into a pulsed ms dc-glow discharge. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2052.	1.6	1
140	Element Analysis of Small and even Smaller Objects by ICPMS and LA-ICPMS. <i>Chimia</i> , 2014, 68, 112.	0.3	1
141	A Microfluidic Chip for ICPMS Sample Introduction. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	1
142	Quantification and Clustering of Inorganic Nanoparticles in Wastewater Treatment Plants across Switzerland. <i>Chimia</i> , 2021, 75, 642.	0.3	1
143	Age and Provenance Analysis from Micrograms of Artwork Pigments. <i>Chimia</i> , 2020, 74, 299.	0.3	0