Stephan Hann

List of Publications by Year
in descending order

169 papers	6,593 citations	61984 43 h-index	88630 70 g-index
172 all docs	172 docs citations	172 times ranked	7857 citing authors

#	Article	IF	Citations
1	An Interlaboratory Evaluation of Drift Tube Ion Mobilityâ€“Mass Spectrometry Collision Cross Section Measurements. Analytical Chemistry, 2017, 89, 9048-9055.	6.5	361
2	Recommendations for reporting ion mobility Mass Spectrometry measurements. Mass Spectrometry Reviews, 2019, 38, 291-320.	5.4	315
3	The industrial yeast Pichia pastoris is converted from a heterotroph into an autotroph capable of growth on CO2. Nature Biotechnology, 2020, 38, 210-216.	17.5	200
4	Ionic liquids for extraction of metals and metal containing compounds from communal and industrial waste water. Water Research, 2011, 45, 4601-4614.	11.3	142
5	Automated on-line flow-injection ICP-MS determination of trace metals (Mn, Fe, Co, Ni, Cu and Zn) in open ocean seawater: Application to the GEOTRACES program. Marine Chemistry, 2013, 155, 71-80.	2.3	137
6	LCâ€“MS/MS analysis of phenols for classification of red wine according to geographic origin, grape variety and vintage. Food Chemistry, 2010, 122, 366-372.	8.2	134
7	Model based engineering of Pichia pastoris central metabolism enhances recombinant protein production. Metabolic Engineering, 2014, 24, 129-138.	7.0	130
8	Root exudation of phytosiderophores from soilâ€grown wheat. New Phytologist, 2014, 203, 1161-1174.	7.3	124
9	Determination of Pt, Pd and Rh by inductively coupled plasma sector field mass spectrometry (ICP-SFMS) in size-classified urban aerosol samples. Journal of Analytical Atomic Spectrometry, 2003, 18, 239-246.	3.0	121
10	Systems-level organization of yeast methylotrophic lifestyle. BMC Biology, 2015, 13, 80.	3.8	118
11	Environmental application of elemental speciation analysis based on liquid or gas chromatography hyphenated to inductively coupled plasma mass spectrometryâ€”A review. Analytica Chimica Acta, 2010, 668, 114-129.	5.4	107
12	Fate of cancerostatic platinum compounds in biological wastewater treatment of hospital effluents. Chemosphere, 2007, 69, 1765-1774.	8.2	104
13	Two dimensional separation schemes for investigation of the interaction of an anticancer ruthenium(iii) compound with plasma proteins. Journal of Analytical Atomic Spectrometry, 2005, 20, 856.	3.0	99
14	The potential of ion mobilityâ€“mass spectrometry for non-targeted metabolomics. Current Opinion in Chemical Biology, 2018, 42, 9-15.	6.1	99
15	Novel separation method for highly sensitive speciation of cancerostatic platinum compounds by HPLC?ICP?MS. Analytical and Bioanalytical Chemistry, 2005, 381, 405-412.	3.7	97
16	Presence of cancerostatic platinum compounds in hospital wastewater and possible elimination by adsorption to activated sludge. Science of the Total Environment, 2005, 345, 141-152.	8.0	96
17	Evaluation of a novel tool for sampling root exudates from soil-grown plants compared to conventional techniques. Environmental and Experimental Botany, 2013, 87, 235-247.	4.2	94
18	Phosphonium and Ammonium Ionic Liquids with Aromatic Anions: Synthesis, Properties, and Platinum Extraction. Australian Journal of Chemistry, 2010, 63, 511.	0.9	86

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19	Determination of rare earth elements U and Th in environmental samples by inductively coupled plasma double focusing sectorfield mass spectrometry (ICP-SMS). Journal of Analytical Atomic Spectrometry, 1999, 14, 1-8.	3.0	85
20	Long-term in vivo degradation behavior and near-implant distribution of resorbed elements for magnesium alloys WZ21 and ZX50. Acta Biomaterialia, 2016, 42, 440-450.	8.3	82
21	Oxidative protein folding and unfolded protein response elicit differing redox regulation in endoplasmic reticulum and cytosol of yeast. Free Radical Biology and Medicine, 2012, 52, 2000-2012.	2.9	81
22	Application of HPLC-ICP-MS to speciation of cisplatin and its degradation products in water containing different chloride concentrations and in human urine. Journal of Analytical Atomic Spectrometry, 2003, 18, 1391-1395.	3.0	77
23	Determination of Rh, Pd and Pt in environmental silica containing matrices: capabilities and limitations of ICP-SFMS. Journal of Analytical Atomic Spectrometry, 2000, 15, 1553-1557.	3.0	74
24	River-derived humic substances as iron chelators in seawater. Marine Chemistry, 2015, 174, 85-93.	2.3	74
25	SEC-ICP-DRCMS and SEC-ICP-SFMS for determination of metalâ€“sulfur ratios in metalloproteins. Journal of Analytical Atomic Spectrometry, 2004, 19, 74-79.	3.0	71
26	Time and substrate dependent exudation of carboxylates by Lupinus albus L. and Brassica napus L.. Plant Physiology and Biochemistry, 2011, 49, 1272-1278.	5.8	68
27	Increasing selectivity and coverage in LC-MS based metabolome analysis. TrAC - Trends in Analytical Chemistry, 2016, 82, 358-366.	11.4	68
28	Quantification of cisplatin, carboplatin and oxaliplatin in spiked human plasma samples by ICP-SFMS and hydrophilic interaction liquid chromatography (HILIC) combined with ICP-MS detection. Journal of Analytical Atomic Spectrometry, 2009, 24, 1336.	3.0	66
29	<scp>U</scp>¹³<scp>C</scp> cell extract of <scp>P</scp>ichia pastoris â€“ a powerful tool for evaluation of sample preparation in metabolomics. Journal of Separation Science, 2012, 35, 3091-3105.	2.5	66
30	Integrating ion mobility spectrometry into mass spectrometry-based exposome measurements: what can it add and how far can it go?. Bioanalysis, 2017, 9, 81-98.	1.5	66
31	Determination of glyphosate and AMPA in surface and waste water using high-performance ion chromatography coupled to inductively coupled plasma dynamic reaction cell mass spectrometry (HPICâ€“ICPâ€“DRCâ€“MS). Analytical and Bioanalytical Chemistry, 2008, 391, 695-699.	3.7	63
32	LCâ€“MS analysis of low molecular weight organic acids derived from root exudation. Analytical and Bioanalytical Chemistry, 2011, 400, 2587-2596.	3.7	63
33	LCâ€“ and CZEâ€“ICP-MS approaches for the in vivo analysis of the anticancer drug candidate sodium trans-[tetrachloridobis(1H-indazole)ruthenate(iii)] (KP1339) in mouse plasma. Metallomics, 2011, 3, 1049.	2.4	62
34	In situ observation of localized, sub-mm scale changes of phosphorus biogeochemistry in the rhizosphere. Plant and Soil, 2018, 424, 573-589.	3.7	59
35	CE-ICP-SFMS and HPIC-ICP-SFMS for arsenic speciation in soil solution and soil water extracts. Journal of Analytical Atomic Spectrometry, 2002, 17, 1042-1047.	3.0	57
36	Arabidopsis thaliana Î²1,2-xylosyltransferase: an unusual glycosyltransferase with the potential to act at multiple stages of the plant N-glycosylation pathway. Biochemical Journal, 2005, 388, 515-525.	3.7	57

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37	Quantitative Metabolite Profiling Utilizing Parallel Column Analysis for Simultaneous Reversed-Phase and Hydrophilic Interaction Liquid Chromatography Separations Combined with Tandem Mass Spectrometry. Analytical Chemistry, 2014, 86, 4145-4150.	6.5	55
38	Increasing pentose phosphate pathway flux enhances recombinant protein production in Pichia pastoris. Applied Microbiology and Biotechnology, 2016, 100, 5955-5963.	3.6	54
39	Systems biology approach for in vivo photodynamic therapy optimization of ruthenium-porphyrin compounds. Journal of Photochemistry and Photobiology B: Biology, 2012, 117, 80-89.	3.8	51
40	Elemental labelling combined with liquid chromatography inductively coupled plasma mass spectrometry for quantification of biomolecules: A review. Analytica Chimica Acta, 2012, 750, 98-110.	5.4	51
41	Metal mobilization from soils by phytosiderophores â€“ experiment and equilibrium modeling. Plant and Soil, 2014, 383, 59-71.	3.7	47
42	Fingerprinting of traditionally produced red wines using liquid chromatography combined with drift tube ion mobility-mass spectrometry. Analytica Chimica Acta, 2019, 1052, 179-189.	5.4	46
43	What CHO is made of: Variations in the biomass composition of Chinese hamster ovary cell lines. Metabolic Engineering, 2020, 61, 288-300.	7.0	46
44	Theoretical evaluation of peak capacity improvements by use of liquid chromatography combined with drift tube ion mobility-mass spectrometry. Journal of Chromatography A, 2015, 1416, 47-56.	3.7	45
45	Bioaccessibility of selected trace metals in urban PM2.5 and PM10 samples: a model study. Analytical and Bioanalytical Chemistry, 2008, 390, 1149-1157.	3.7	44
46	Bacterially Induced Weathering of Ultramafic Rock and Its Implications for Phytoextraction. Applied and Environmental Microbiology, 2013, 79, 5094-5103.	3.1	44
47	Interactions of a novel ruthenium-based anticancer drug (KP1019 or FFC14a) with serum proteins ? significance for the patient. International Journal of Clinical Pharmacology and Therapeutics, 2005, 43, 583-585.	0.6	44
48	ICP-SFMS determination of palladium using IDMS in combination with on-line and off-line matrix separation. Journal of Analytical Atomic Spectrometry, 2001, 16, 1057-1063.	3.0	43
49	Bioaccessibility of palladium and platinum in urban aerosol particulates. Atmospheric Environment, 2012, 55, 213-219.	4.1	42
50	ICT: isotope correction toolbox. Bioinformatics, 2016, 32, 154-156.	4.1	42
51	Flow injection combined with ICP-MS for accurate high throughput analysis of elemental impurities in pharmaceutical products according to USP <232>/<233>. Journal of Pharmaceutical and Biomedical Analysis, 2014, 95, 121-129.	2.8	39
52	LC-MS/MS-based analysis of coenzyme A and short-chain acyl-coenzyme A thioesters. Analytical and Bioanalytical Chemistry, 2015, 407, 6681-6688.	3.7	39
53	Hydrophilic interaction LC combined with electrospray MS for highly sensitive analysis of underivatized amino acids in rhizosphere research. Journal of Separation Science, 2010, 33, 911-922.	2.5	38
54	Modeling and measuring intracellular fluxes of secreted recombinant protein in Pichia pastoris with a novel 34S labeling procedure. Microbial Cell Factories, 2011, 10, 47.	4.0	37

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55	Geochemical Processes Constraining Iron Uptake in Strategy II Fe Acquisition. Environmental Science & Technology, 2014, 48, 12662-12670.	10.0	37
56	Phytosiderophore-induced mobilization and uptake of Cd, Cu, Fe, Ni, Pb and Zn by wheat plants grown on metal-enriched soils. Environmental and Experimental Botany, 2017, 138, 67-76.	4.2	37
57	Studying metal integration in native and recombinant copper proteins by hyphenated ICP-DRC-MS and ESI-TOF-MS capabilities and limitations of the complementary techniques. Journal of Analytical Atomic Spectrometry, 2006, 21, 1224-1231.	3.0	36
58	Complexation of metals by phytosiderophores revealed by CEâ€ESIâ€MS and CEâ€ICPâ€MS. Electrophoresis, 2010, 31, 1201-1207.	2.4	36
59	pH-Dependent Bioavailability, Speciation, and Phytotoxicity of Tungsten (W) in Soil Affect Growth and Molybdoenzyme Activity of Nodulated Soybeans. Environmental Science & Technology, 2018, 52, 6146-6156.	10.0	36
60	A single Gal4-like transcription factor activates the Crabtree effect in Komagataella phaffii. Nature Communications, 2018, 9, 4911.	12.8	36
61	Gas Chromatography-Quadrupole Time-of-Flight Mass Spectrometry-Based Determination of Isotopologue and Tandem Mass Isotopomer Fractions of Primary Metabolites for ‹sup›13‹/sup›C-Metabolic Flux Analysis. Analytical Chemistry, 2015, 87, 11792-11802.	6.5	35
62	Accurate quantification of the redox-sensitive GSH/GSSG ratios in the yeast Pichia pastoris by HILICâ€“MS/MS. Analytical and Bioanalytical Chemistry, 2013, 405, 2031-2039.	3.7	34
63	In vitro studies on cisplatin focusing on kinetic aspects of intracellular chemistry by LC-ICP-MS. Metallomics, 2013, 5, 636.	2.4	33
64	Isotopologue analysis of sugar phosphates in yeast cell extracts by gas chromatography chemical ionization time-of-flight mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 2865-2875.	3.7	33
65	An integrated metabolomics workflow for the quantification of sulfur pathway intermediates employing thiol protection with N-ethyl maleimide and hydrophilic interaction liquid chromatography tandem mass spectrometry. Analyst, The, 2015, 140, 7687-7695.	3.5	33
66	Mass spectrometry based analysis of nucleotides, nucleosides, and nucleobasesâ€”application to feed supplements. Analytical and Bioanalytical Chemistry, 2012, 404, 799-808.	3.7	32
67	Down-scaling narrowbore LC-ICP-MS to capillary LC-ICP-MS: a comparative study of different introduction systems. Journal of Analytical Atomic Spectrometry, 2006, 21, 86-89.	3.0	31
68	Effect of the L499M mutation of the ascomycetous‹i›Botrytis aclada‹/i›laccase on redox potential and catalytic properties. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2913-2923.	2.5	31
69	Removal of Cr, Mn, and Co from Textile Wastewater by Horizontal Rotating Tubular Bioreactor. Environmental Science & Technology, 2012, 46, 10690-10696.	10.0	30
70	Fundamental study of ion trapping and multiplexing using drift tube-ion mobility time-of-flight mass spectrometry for non-targeted metabolomics. Analytical and Bioanalytical Chemistry, 2019, 411, 6265-6274.	3.7	30
71	Complementing reversed-phase selectivity with porous graphitized carbon to increase the metabolome coverage in an on-line two-dimensional LC-MS setup for metabolomics. Analyst, The, 2015, 140, 3465-3473.	3.5	29
72	Ultra-trace analysis of platinum in human tissue samples. Analytical and Bioanalytical Chemistry, 2005, 382, 1500-1506.	3.7	27

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73	Quantification of elemental labeled peptides in cellular uptake studies. Journal of Analytical Atomic Spectrometry, 2009, 24, 97-102.	3.0	27
74	Analysis of ironâ€phytosiderophore complexes in soil related samples: LCâ€ESIâ€MS/MS versus CEâ€MS. Electrophoresis, 2012, 33, 726-733.	2.4	27
75	Overexpression of the transcription factor Yap1 modifies intracellular redox conditions and enhances recombinant protein secretion. Microbial Cell, 2014, 1, 376-386.	3.2	27
76	Extravasation of Pt-based chemotherapeutics â€“ bioimaging of their distribution in resectates using laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). Metallomics, 2015, 7, 508-515.	2.4	27
77	Review of sample preparation strategies for MS-based metabolomic studies in industrial biotechnology. Analytica Chimica Acta, 2016, 938, 18-32.	5.4	27
78	Ultra-trace analysis of silver and platinum in seawater by ICP-SFMS after off-line matrix separation and pre-concentration. Marine Chemistry, 2018, 199, 44-52.	2.3	27
79	Uncertainty of species unspecific quantification strategies in hyphenated ICP-MS analysis. Journal of Analytical Atomic Spectrometry, 2003, 18, 1047.	3.0	26
80	Investigation of the reaction of cisplatin with methionine in aqueous media using HPLC-ICP-DRCMS. Journal of Analytical Atomic Spectrometry, 2004, 19, 894-898.	3.0	26
81	Elucidating rhizosphere processes by mass spectrometry â€“ A review. Analytica Chimica Acta, 2017, 956, 1-13.	5.4	26
82	Platinum determination by inductively coupled plasmaâ€“sector field mass spectrometry (ICPâ€“SFMS) in different matrices relevant to human biomonitoring. Analytical and Bioanalytical Chemistry, 2003, 376, 198-204.	3.7	25
83	Quantitative Profiling of in Vivo Generated Cisplatinâ€DNA Adducts Using Different Isotope Dilution Strategies. Analytical Chemistry, 2009, 81, 9553-9560.	6.5	25
84	[(p-MeC6H4Pr)2Ru2(SC6H4-p-Bu)3]Cl (diruthenium-1), a dinuclear arene ruthenium compound with very high anticancer activity: An inÂvitro and inÂvivo study. Journal of Organometallic Chemistry, 2015, 782, 42-51.	1.8	25
85	Arsenic redox transformations and cycling in the rhizosphere of Pteris vittata and Pteris quadriaurita. Environmental and Experimental Botany, 2020, 177, 104122.	4.2	25
86	Flow injection on-line pre-concentration of platinum coupled with electrothermal atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2004, 19, 1474.	3.0	24
87	Ultra-fast HPLC-ICP-MS analysis of oxaliplatin in patient urine. Analytical and Bioanalytical Chemistry, 2010, 397, 401-406.	3.7	24
88	Interlaboratory comparison for quantitative primary metabolite profiling in Pichia pastoris. Analytical and Bioanalytical Chemistry, 2013, 405, 5159-5169.	3.7	23
89	Uncertainty budgeting in fold change determination and implications for non-targeted metabolomics studies in model systems. Analyst, The, 2017, 142, 80-90.	3.5	23
90	Simultaneous determination of pesticides, mycotoxins, tropane alkaloids, growth regulators, and pyrrolizidine alkaloids in oats and whole wheat grains after online clean-up via two-dimensional liquid chromatography tandem mass spectrometry. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 98-111.	1.5	23

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91	Reconstruction of a case of thallium poisoning using LA-ICP-SFMS. International Journal of Legal Medicine, 2005, 119, 35-39.	2.2	22
92	On-line fast column switching SEC Ã— IC separation combined with ICP-MS detection for mapping metallodrugâ€“biomolecule interaction. Journal of Analytical Atomic Spectrometry, 2010, 25, 861.	3.0	22
93	From the peat bog to the estuarine mixing zone: Common features and variances in riverine dissolved organic matter determined by non-targeted analysis. Marine Chemistry, 2017, 194, 158-167.	2.3	22
94	Species specific IDMS for accurate quantification of carboplatin in urine by LC-ESI-TOFMS and LC-ICP-QMS. Journal of Analytical Atomic Spectrometry, 2007, 23, 29-36.	3.0	21
95	Quantitative determination of intact free cisplatin in cell models by LC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 109-115.	3.0	21
96	Distantly related plant and nematode core Î±1,3-fucosyltransferases display similar trends in structureâ€“function relationships. Glycobiology, 2011, 21, 1401-1415.	2.5	21
97	Speciation analysis of orthophosphate and myoâ€inositol hexakisphosphate in soilâ€and plantâ€related samples by highâ€performance ion chromatography combined with inductively coupled plasma mass spectrometry. Journal of Separation Science, 2014, 37, 1711-1719.	2.5	21
98	Metabolic profiling of amino acids in cellular samples via zwitterionic sub-2 Î¼m particle size HILIC-MS/MS and a uniformly 13C labeled internal standard. Analytical and Bioanalytical Chemistry, 2014, 406, 915-922.	3.7	21
99	Microbial decomposition of 13C- labeled phytosiderophores in the rhizosphere of wheat: Mineralization dynamics and key microbial groups involved. Soil Biology and Biochemistry, 2016, 98, 196-207.	8.8	20
100	Functional ironâ€deficiency in women with allergic rhinitis is associated with symptoms after nasal provocation and lack of ironâ€sequestering microbes. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 2882-2886.	5.7	20
101	Sample preparation workflow for the liquid chromatography tandem mass spectrometry based analysis of nicotinamide adenine dinucleotide phosphate cofactors in yeast^{â€}. Journal of Separation Science, 2014, 37, 2185-2191.	2.5	19
102	Implementation of data-dependent isotopologue fragmentation in 13C-based metabolic flux analysis. Analytical and Bioanalytical Chemistry, 2017, 409, 3713-3718.	3.7	19
103	Rapid screening methods for yeast subâ€metabolome analysis with a highâ€resolution ion mobility quadrupole timeâ€ofâ€flight mass spectrometer. Rapid Communications in Mass Spectrometry, 2019, 33, 66-74.	1.5	19
104	Secretory protein betaâ€lactoglobulin in cattle stable dust may contribute to the allergyâ€protective farm effect. Clinical and Translational Allergy, 2022, 12, e12125.	3.2	19
105	Comprehensive assessment of measurement uncertainty in 13C-based metabolic flux experiments. Analytical and Bioanalytical Chemistry, 2018, 410, 3337-3348.	3.7	18
106	Novel acquisition strategies for metabolomics using drift tube ion mobility-quadrupole resolved all ions time-of-flight mass spectrometry (IM-QRAI-TOFMS). Analytica Chimica Acta, 2021, 1163, 338508.	5.4	18
107	Stability assessment of different chelating moieties used for elemental labeling of bio-molecules. Metallomics, 2011, 3, 1304.	2.4	17
108	Fully automated on-line two-dimensional liquid chromatography in combination with ESI MS/MS detection for quantification of sugar phosphates in yeast cell extracts. Analyst, The, 2014, 139, 1512.	3.5	17

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109	Critical assessment of different methods for quantitative measurement of metallodrug-protein associations. Analytical and Bioanalytical Chemistry, 2018, 410, 7211-7220.	3.7	17
110	Uncertainty Estimations for Collision Cross Section Determination via Uniform Field Drift Tube-Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 2102-2110.	2.8	17
111	Multivariate modelling techniques applied to metabolomic, elemental and isotopic fingerprints for the verification of regional geographical origin of Austrian carrots. Food Chemistry, 2021, 338, 127924.	8.2	17
112	Novel matrix separationâ€"on-line pre-concentration procedure for accurate quantification of palladium in environmental samples by isotope dilution inductively coupled plasma sector field mass spectrometry. Journal of Analytical Atomic Spectrometry, 2006, 21, 1287-1293.	3.0	16
113	Accurate LCâ€ESIâ€MS/MS quantification of 2â€²â€deoxymugineic acid in soil and root related samples employing porous graphitic carbon as stationary phase and a ¹³C₄â€labeled internal standard. Electrophoresis, 2014, 35, 1375-1385.	2.4	16
114	Characterization of metal-tagged antibodies used in ICP-MS-based immunoassays. Analytical and Bioanalytical Chemistry, 2014, 406, 163-169.	3.7	16
115	Characterisation of zinc-binding domains of peroxisomal RING finger proteins using size exclusion chromatography/inductively coupled plasma-mass spectrometry. Biological Chemistry, 2007, 388, 1209-1214.	2.5	15
116	Sulfur containing amino acids â€“ challenge of accurate quantification. Journal of Analytical Atomic Spectrometry, 2012, 27, 1018.	3.0	15
117	Reduced quenching and extraction time for mammalian cells using filtration and syringe extraction. Journal of Biotechnology, 2014, 182-183, 97-103.	3.8	15
118	Reaction of pyranose dehydrogenase from AgaricusÂmeleagris with its carbohydrate substrates. FEBS Journal, 2015, 282, 4218-4241.	4.7	15
119	SI-traceable certification of Cu, Cr, Cd and Pb in sediment and fly ash candidate reference materials. Journal of Environmental Monitoring, 2000, 2, 613-620.	2.1	14
120	Preliminary comparison of inductively coupled plasma mass spectrometry and electrospray mass spectrometry hyphenated with ion chromatography for trace analysis of iodide. Journal of Analytical Atomic Spectrometry, 2003, 18, 512-514.	3.0	14
121	High-throughput flow injection analysis of labeled peptides in cellular samplesâ€"ICP-MS analysis versus fluorescence based detection. International Journal of Mass Spectrometry, 2011, 307, 105-111.	1.5	14
122	Metabolomics sampling ofPichia pastorisrevisited: rapid filtration prevents metabolite loss during quenching. FEMS Yeast Research, 2015, 15, fov049.	2.3	14
123	In vivo synthesized ³⁴S enriched amino acid standards for species specific isotope dilution of proteins. Journal of Analytical Atomic Spectrometry, 2016, 31, 1830-1835.	3.0	14
124	Sensitive quantitative analysis of phosphorylated primary metabolites using selective metal oxide enrichment and GC- and IC- MS/MS. Talanta, 2019, 205, 120147.	5.5	14
125	Beyond alcohol oxidase: the methylotrophic yeast Komagataella phaffii utilizes methanol also with its native alcohol dehydrogenase Adh2. FEMS Yeast Research, 2021, 21, .	2.3	14
126	Determination of chloroplatinates by CE coupled to inductively coupled plasma sector field MS. Electrophoresis, 2007, 28, 3492-3499.	2.4	13

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127	Speciation analysis of sugar phosphates via anion exchange chromatography combined with inductively coupled plasma dynamic reaction cell mass spectrometry â€“ optimization for the analysis of yeast cell extracts. Journal of Analytical Atomic Spectrometry, 2014, 29, 915.	3.0	13
128	On-line sample treatment coupled with atomic spectrometric detection for the determination of trace elements in natural waters. Journal of Analytical Atomic Spectrometry, 2020, 35, 643-670.	3.0	13
129	Novel approach for determination of trace metals bound to suspended solids in surface water samples by inductively coupled plasma sector field mass spectrometry (ICP-SFMS). Journal of Analytical Atomic Spectrometry, 2008, 23, 111-118.	3.0	12
130	Retention of phytosiderophores by the soil solid phase â€“ adsorption and desorption. Plant and Soil, 2016, 404, 85-97.	3.7	12
131	Traceability of fluorescent engineered nanomaterials and their fate in complex liquid waste matrices. Environmental Pollution, 2016, 214, 795-805.	7.5	12
132	GCâ€“QTOFMS with a low-energy electron ionization source for advancing isotopologue analysis in 13C-based metabolic flux analysis. Analytical and Bioanalytical Chemistry, 2019, 411, 1495-1502.	3.7	12
133	Separation of spectral and non-spectral interferences by on-line high performance ion chromatography inductively coupled plasma sector field mass spectrometry (HPIC-ICP-SFMS) for accurate determination of 234U , 235U, 238U and 232Th in industrial ores. Journal of Analytical Atomic Spectrometry, 2000, 15, 721-725.	3.0	11
134	Immunoaffinity assisted LC-ICP-MSâ€”a versatile tool in biomedical research. Journal of Analytical Atomic Spectrometry, 2010, 25, 18-20.	3.0	11
135	Elemental analysis in biotechnology. Current Opinion in Biotechnology, 2015, 31, 93-100.	6.6	11
136	Determination of size-dependent metal distribution in dissolved organic matter by SEC-UV/VIS-ICP-MS with special focus on changes in seawater. Electrophoresis, 2016, 37, 1063-1071.	2.4	11
137	Accurate quantification of mercury in river water by isotope dilution MC-ICP-SFMS and ICP-QMS detection after cold vapour generation. Journal of Analytical Atomic Spectrometry, 2012, 27, 1983.	3.0	10
138	Measurement uncertainty of isotopologue fractions in fluxomics determined via mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 5133-5146.	3.7	10
139	Comparison of fully wettable RPLC stationary phases for LCâ€MSâ€based cellular metabolomics. Electrophoresis, 2017, 38, 2287-2295.	2.4	10
140	Selective and Accurate Quantification ofN-Acetylglucosamine in Biotechnological Cell Samples via GCâ€“MS/MS and GCâ€“TOFMS. Analytical Chemistry, 2020, 92, 4875-4883.	6.5	10
141	Identity confirmation of anthocyanins in berries by LCâ€“DADâ€“IMâ€QTOFMS. Electrophoresis, 2021, 42, 473-481.	2.4	10
142	The study of reduced versus oxidized glutathione in cancer cell models employing isotopically labelled standards. Analytical Methods, 2014, 6, 3086-3094.	2.7	9
143	Metabolomics of Pichia pastoris: impact of buffering conditions on the kinetics and nature of metabolite loss during quenching. FEMS Yeast Research, 2017, 17, .	2.3	9
144	Doping Method Determines Para- or Superparamagnetic Properties of Photostable and Surface-Modifiable Quantum Dots for Multimodal Bioimaging. Chemistry of Materials, 2018, 30, 4233-4241.	6.7	9

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145	Monitoring the production process of selenized yeast by elemental speciation analysis. Metallomics, 2012, 4, 1176.	2.4	8
146	Mobility and fate of ligand stabilized semiconductor nanoparticles in landfill leachates. Journal of Hazardous Materials, 2020, 394, 122477.	12.4	8
147	Speciation of 2â€²-deoxymugineic acidâ€“metal complexes in top soil extracts by multi-modal stationary phase LC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2015, 30, 1345-1355.	3.0	7
148	Element labeling of antibody fragments for ICP-MS based immunoassays. Journal of Analytical Atomic Spectrometry, 2016, 31, 2330-2337.	3.0	7
149	Alternating in-source fragmentation with single-stage high-resolution mass spectrometry with high annotation confidence in non-targeted metabolomics. Talanta, 2022, 236, 122828.	5.5	7
150	Drift-Tube Ion Mobility-Mass Spectrometry for Nontargeted â€²Omics. Methods in Molecular Biology, 2020, 2084, 79-94.	0.9	7
151	Trace Metal Speciation with ICP-MS Detection. , 2009, , 259-335.		6
152	Analysis of Underivatized Amino Acids: Zwitterionic Hydrophilic Interaction Chromatography Combined with Triple Quadrupole Tandem Mass Spectrometry. Methods in Molecular Biology, 2012, 828, 39-46.	0.9	6
153	Impact of glutathione metabolism on zinc homeostasis in Saccharomyces cerevisiae. FEMS Yeast Research, 2017, 17, .	2.3	6
154	Turbulent flow chromatography in combination with HPLC-ICP-MS for high-throughput analysis of free, intact metal based drugs in biomedical samples. Journal of Analytical Atomic Spectrometry, 2016, 31, 1811-1817.	3.0	5
155	FI-ICP-TOFMS for quantification of biologically essential trace elements in cerebrospinal fluid â€“ high-throughput at low sample volume. Analyst, The, 2019, 144, 4653-4660.	3.5	5
156	Temperatureâ€dependent irreversible conformational change of recombinant ADAMTS13 upon metal ion chelation. Journal of Thrombosis and Haemostasis, 2019, 17, 995-1002.	3.8	5
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