

Michael Sperling

List of Publications by Year in descending order

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156
papers

5,412
citations

76196

40
h-index

110170

64
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180
all docs

180
docs citations

180
times ranked

4519
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined speciation analysis and elemental bioimaging provide new insight into gadolinium retention in kidney. <i>Metallomics</i> , 2022, 14, .	1.0	3
2	Quantitative elemental bioimaging: an antibody-based double-labelling method to quantify the cell-specific distribution of silver nanoparticles in lung tissue sections. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1084-1089.	1.6	1
3	A simple preparation protocol for shipping and storage of tissue sections for laser ablation-inductively coupled plasma-mass spectrometry imaging. <i>Metallomics</i> , 2022, 14, .	1.0	4
4	Species-dependent interaction of Gd-based contrast agents with humic substances. <i>Chemosphere</i> , 2022, 300, 134528.	4.2	3
5	Gadolinium retention in the tunica media of arterial walls—a complementary study using elemental bioimaging and immunogold staining. <i>Metallomics</i> , 2022, 14, .	1.0	0
6	Long-term Gadolinium Retention in the Healthy Rat Brain: Comparison between Gadopichlenol, Gadobutrol, and Gadodiamide. <i>Radiology</i> , 2022, 305, 179-189.	3.6	12
7	Elemental bioimaging of Zn and Cd in leaves of hyperaccumulator <i>Arabidopsis halleri</i> using laser ablation-inductively coupled plasma-mass spectrometry and referencing strategies. <i>Chemosphere</i> , 2022, 305, 135267.	4.2	5
8	Deposition patterns of iatrogenic lanthanum and gadolinium in the human body depend on delivered chemical binding forms. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 63, 126665.	1.5	13
9	Spatially and size-resolved analysis of gold nanoparticles in rat spleen after intratracheal instillation by laser ablation-inductively coupled plasma-mass spectrometry. <i>Metallomics</i> , 2021, 13, .	1.0	5
10	A fast and automated separation and quantification method for bromine speciation analyzing bromide and 5-bromo-2â€™-deoxyuridine in enzymatically digested DNA samples via ion chromatography-inductively coupled plasma-mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1652, 462370.	1.8	0
11	Mild Dissolution/Recomplexation Strategy for Speciation Analysis of Gadolinium from MR Contrast Agents in Bone Tissues by Means of HPLC-ICP-MS. <i>Analytical Chemistry</i> , 2021, 93, 11398-11405.	3.2	11
12	Gadolinium Tissue Distribution in a Large-Animal Model after a Single Dose of Gadolinium-based Contrast Agents. <i>Radiology</i> , 2021, 301, 637-642.	3.6	17
13	Fast and automated monitoring of gadolinium-based contrast agents in surface waters. <i>Water Research</i> , 2021, 207, 117836.	5.3	9
14	Weighted Linear Regression Improves Accuracy of Quantitative Elemental Bioimaging by Means of LA-ICP-MS. <i>Analytical Chemistry</i> , 2021, 93, 15720-15727.	3.2	10
15	Multimodal imaging of hallucinogens 25Câ€™ and 25Iâ€™NBOME on blotter papers. <i>Drug Testing and Analysis</i> , 2020, 12, 465-471.	1.6	8
16	Effect of Long-Term Retention of Gadolinium on Metabolism of Deep Cerebellar Nuclei After Repeated Injections of Gadodiamide in Rats. <i>Investigative Radiology</i> , 2020, 55, 120-128.	3.5	18
17	Complementary approach for analysis of phospholipids by liquid chromatography hyphenated to elemental and molecular mass spectrometry. <i>Analytical Science Advances</i> , 2020, 1, 46.	1.2	3
18	Elemental bioimaging of Na distribution in roots of <i>Arabidopsis thaliana</i> using laser ablation-ICP-MS under cold plasma conditions. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2057-2063.	1.6	6

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19	3.1 Analysis of rare-earth metals and their species. , 2020, , 225-234.		0
20	A mass spectrometry-based approach gives new insight into organotinâ€“protein interactions. Metallomics, 2020, 12, 1702-1712.	1.0	2
21	Trendbericht Analytische Chemie II: Trenntechniken und Elektroanalytik. Nachrichten Aus Der Chemie, 2020, 68, 48-53.	0.0	0
22	Revealing Silver Nanoparticle Uptake by Macrophages Using SR- μ XRF and LA-ICP-MS. Chemical Research in Toxicology, 2020, 33, 1250-1255.	1.7	15
23	An integrative approach to cisplatin chronic toxicities in mice reveals importance of organic cation-transporter-dependent protein networks for renoprotection. Archives of Toxicology, 2019, 93, 2835-2848.	1.9	16
24	Allergic reaction to a green tattoo with nickel as a possible allergen. Contact Dermatitis, 2019, 81, 64-66.	0.8	18
25	LA-ICP-TOF-MS for rapid, all-elemental and quantitative bioimaging, isotopic analysis and the investigation of plasma processes. Journal of Analytical Atomic Spectrometry, 2019, 34, 694-701.	1.6	30
26	Quantitative imaging of platinum-based antitumor complexes in bone tissue samples using LA-ICP-MS. Journal of Trace Elements in Medicine and Biology, 2019, 54, 98-102.	1.5	15
27	Gadolinium Deposition in the Brain in a Large Animal Model. Investigative Radiology, 2019, 54, 531-536.	3.5	53
28	μ XRF and LA-ICP-TQMS for quantitative bioimaging of iron in organ samples of a hemochromatosis model. Journal of Trace Elements in Medicine and Biology, 2019, 52, 166-175.	1.5	12
29	LA-ICP-MS/MS improves limits of detection in elemental bioimaging of gadolinium deposition originating from MRI contrast agents in skin and brain tissues. Journal of Trace Elements in Medicine and Biology, 2019, 51, 212-218.	1.5	36
30	Quantitative dried blood spot analysis for metallodrugs by laser ablation-inductively coupled plasma-mass spectrometry. Journal of Trace Elements in Medicine and Biology, 2019, 51, 50-56.	1.5	15
31	Combination of micro X-ray fluorescence spectroscopy and time-of-flight secondary ion mass spectrometry imaging for the marker-free detection of CeO ₂ nanoparticles in tissue sections. Journal of Analytical Atomic Spectrometry, 2018, 33, 491-501.	1.6	15
32	Bioimaging of the elemental distribution in cocoa beans by means of LA-ICP-TQMS. Journal of Analytical Atomic Spectrometry, 2018, 33, 187-194.	1.6	15
33	Analysis of metal-based contrast agents in medicine and the environment. TrAC - Trends in Analytical Chemistry, 2018, 104, 135-147.	5.8	26
34	Quantitative imaging of translocated silver following nanoparticle exposure by laser ablation-inductively coupled plasma-mass spectrometry. Analytical Methods, 2018, 10, 836-840.	1.3	12
35	Spatially resolved quantification of gadolinium deposited in the brain of a patient treated with gadolinium-based contrast agents. Journal of Trace Elements in Medicine and Biology, 2018, 45, 125-130.	1.5	43
36	Multimodal laser ablation/desorption imaging analysis of Zn and MMP-11 in breast tissues. Analytical and Bioanalytical Chemistry, 2018, 410, 913-922.	1.9	28

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37	Biolabeling with cobaltocinium tags. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 781-791.	0.3	0
38	Complementary Molecular and Elemental Mass-Spectrometric Imaging of Human Brain Tumors Resected by Fluorescence-Guided Surgery. Analytical Chemistry, 2018, 90, 12253-12260.	3.2	13
39	One-year Retention of Gadolinium in the Brain: Comparison of Gadodiamide and Gadoterate Meglumine in a Rodent Model. Radiology, 2018, 288, 424-433.	3.6	107
40	Investigations on the binding of ethylmercury from thiomersal to proteins in influenza vaccines. Journal of Trace Elements in Medicine and Biology, 2018, 50, 100-104.	1.5	11
41	Phosphonate coating of SiO ₂ nanoparticles abrogates inflammatory effects and local changes of the lipid composition in the rat lung: a complementary bioimaging study. Particle and Fibre Toxicology, 2018, 15, 31.	2.8	14
42	Impact of the Particle Diameter on Ion Cloud Formation from Gold Nanoparticles in ICPMS. Analytical Chemistry, 2018, 90, 10271-10278.	3.2	18
43	Interaction of the New Monofunctional Anticancer Agent Phenanthriplatin With Transporters for Organic Cations. Frontiers in Chemistry, 2018, 6, 180.	1.8	21
44	High spatial resolution LA-ICP-MS demonstrates massive liver copper depletion in Wilson disease rats upon Methanobactin treatment. Journal of Trace Elements in Medicine and Biology, 2018, 49, 119-127.	1.5	27
45	Gadolinium-based contrast agents induce gadolinium deposits in cerebral vessel walls, while the neuropil is not affected: an autopsy study. Acta Neuropathologica, 2018, 136, 127-138.	3.9	45
46	Quantitative Bioimaging of Platinum via Online Isotope Dilution-Laser Ablation-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2018, 90, 7033-7039.	3.2	23
47	Elemental bioimaging by means of LA-ICP-OES: investigation of the calcium, sodium and potassium distribution in tobacco plant stems and leaf petioles. Metallomics, 2017, 9, 676-684.	1.0	12
48	Spatial investigation of the elemental distribution in Wilson's disease liver after D-penicillamine treatment by LA-ICP-MS. Journal of Trace Elements in Medicine and Biology, 2017, 44, 26-31.	1.5	20
49	Isobaric dilution analysis as a calibration tool for long lived radionuclides in ICP-MS. Journal of Trace Elements in Medicine and Biology, 2017, 40, 97-103.	1.5	11
50	Imaging metals in Caenorhabditis elegans. Metallomics, 2017, 9, 357-364.	1.0	12
51	Investigating the influence of standard staining procedures on the copper distribution and concentration in Wilson's disease liver samples by laser ablation-inductively coupled plasma-mass spectrometry. Journal of Trace Elements in Medicine and Biology, 2017, 44, 71-75.	1.5	13
52	Silver Nanoparticles in the Lung: Toxic Effects and Focal Accumulation of Silver in Remote Organs. Nanomaterials, 2017, 7, 441.	1.9	76
53	Imaging by Elemental and Molecular Mass Spectrometry Reveals the Uptake of an Arsenolipid in the Brain of <i>Drosophila melanogaster</i> . Analytical Chemistry, 2016, 88, 5258-5263.	3.2	51
54	Quantification of Manganese Enhanced Magnetic Resonance Imaging based on Spatially Resolved Elemental Mass Spectrometry. ChemistrySelect, 2016, 1, 264-266.	0.7	6

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55	Analytische Chemie 2014/2015. Nachrichten Aus Der Chemie, 2016, 64, 497-508.	0.0	0
56	Quantitative bioimaging of platinum group elements in tumor spheroids. Analytica Chimica Acta, 2016, 938, 106-113.	2.6	32
57	Investigating the stability of gadolinium based contrast agents towards UV radiation. Water Research, 2016, 91, 244-250.	5.3	32
58	Elemental bioimaging and speciation analysis for the investigation of Wilson's disease using μ XRF and XANES. Metallomics, 2016, 8, 648-653.	1.0	35
59	Tracing gadolinium-based contrast agents from surface water to drinking water by means of speciation analysis. Journal of Chromatography A, 2016, 1440, 105-111.	1.8	59
60	Element bioimaging of liver needle biopsy specimens from patients with Wilson's disease by laser ablation-inductively coupled plasma-mass spectrometry. Journal of Trace Elements in Medicine and Biology, 2016, 35, 97-102.	1.5	31
61	Investigating the adduct formation of organic mercury species with carbonic anhydrase and hemoglobin from human red blood cell hemolysate by means of LC/ESI-TOF-MS and LC/ICP-MS. Metallomics, 2016, 8, 101-107.	1.0	19
62	2015 European Winter Conference on Plasma Spectrochemistry. Journal of Analytical Atomic Spectrometry, 2015, 30, 2035-2037.	1.6	1
63	Study on aerosol characteristics and fractionation effects of organic standard materials for bioimaging by means of LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2015, 30, 2056-2065.	1.6	35
64	Elemental Bioimaging by Means of Fast Scanning Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 1274-1282.	1.2	7
65	Elemental Bioimaging of Thulium in Mouse Tissues by Laser Ablation-ICPMS as a Complementary Method to Heteronuclear Proton Magnetic Resonance Imaging for Cell Tracking Experiments. Analytical Chemistry, 2015, 87, 4225-4230.	3.2	28
66	Diagnosis of Nephrogenic Systemic Fibrosis by means of Elemental Bioimaging and Speciation Analysis. Analytical Chemistry, 2015, 87, 3321-3328.	3.2	115
67	Quantitative bioimaging of p-boronophenylalanine in thin liver tissue sections as a tool for treatment planning in boron neutron capture therapy. Analytical and Bioanalytical Chemistry, 2015, 407, 2365-2371.	1.9	8
68	Quantitative imaging of platinum based on laser ablation-inductively coupled plasma-mass spectrometry to investigate toxic side effects of cisplatin. Metallomics, 2015, 7, 1595-1603.	1.0	31
69	Quantitative Bioimaging to Investigate the Uptake of Mercury Species in <i>Drosophila melanogaster</i> . Analytical Chemistry, 2015, 87, 10392-10396.	3.2	23
70	Identification and quantification of electrochemically generated metabolites of thyroxine by means of liquid chromatography/electrospray-mass spectrometry and countergradient liquid chromatography/inductively coupled plasma-mass spectrometry. Journal of Chromatography A, 2015, 1419, 81-88.	1.8	11
71	Chromium ^{VI} , 2014, , .		2
72	Assessing the intracellular concentration of platinum in medulloblastoma cell lines after Cisplatin incubation. Journal of Trace Elements in Medicine and Biology, 2014, 28, 166-172.	1.5	9

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73	In vitro study of thimerosal reactions in human whole blood and plasma surrogate samples. <i>Journal of Trace Elements in Medicine and Biology</i> , 2014, 28, 125-130.	1.5	30
74	On-line species-unspecific isotope dilution analysis in the picomolar range reveals the time- and species-depending mercury uptake in human astrocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1909-1916.	1.9	14
75	A palladium label to monitor nanoparticle-assisted drug delivery of a photosensitizer into tumor spheroids by elemental bioimaging. <i>Metallomics</i> , 2014, 6, 77-81.	1.0	25
76	Low gas flow inductively coupled plasma optical emission spectrometry for the analysis of food samples after microwave digestion. <i>Talanta</i> , 2014, 129, 575-578.	2.9	11
77	Elemental Bioimaging of Nanosilver-Coated Prostheses Using X-ray Fluorescence Spectroscopy and Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 615-620.	3.2	37
78	Rapid cell mode switching and dual laser ablation inductively coupled plasma mass spectrometry for elemental bioimaging. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2627-2635.	0.7	9
79	Metallomics: an emerging interdisciplinary science. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1789-1790.	1.9	2
80	The interaction of platinum-based drugs with native biologically relevant proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1855-1864.	1.9	35
81	Quantitative bioimaging of platinum in polymer embedded mouse organs using laser ablation ICP-MS. <i>Metallomics</i> , 2013, 5, 1440.	1.0	67
82	Sensitive quantification of gadolinium-based magnetic resonance imaging contrast agents in surface waters using hydrophilic interaction liquid chromatography and inductively coupled plasma sector field mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1308, 125-131.	1.8	49
83	Ambient molecular imaging by laser ablation atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2595-2600.	0.7	25
84	Complexation and oxidation strategies for improved TXRF determination of mercury in vaccines. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 719.	1.6	17
85	Elemental bioimaging of haematoxylin and eosin-stained tissues by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 989.	1.6	35
86	Influence of cimetidine and its metabolites on Cisplatinâ€™Investigation of adduct formation by means of electrochemistry/liquid chromatography/electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1279, 49-57.	1.8	9
87	Determination of gadolinium-based MRI contrast agents in biological and environmental samples: A review. <i>Analytica Chimica Acta</i> , 2013, 764, 1-16.	2.6	102
88	Adduct formation of ionic and nanoparticulate silver with amino acids and glutathione. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	10
89	Laser ablation based bioimaging with simultaneous elemental and molecular mass spectrometry: towards spatially resolved speciation analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2588-2594.	0.7	31
90	Speciation analysis of the antirheumatic agent Auranofin and its thiol adducts by LC/ESI-MS and LC/ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 975.	1.6	31

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91	Nitrogen purged TXRF for the quantification of silver and palladium. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1799.	1.6	16
92	Development of a novel low-flow ion source/sampling cone geometry for inductively coupled plasma mass spectrometry and application in hyphenated techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 76, 48-55.	1.5	10
93	Speciation and Isotope Dilution Analysis of Gadolinium-Based Contrast Agents in Wastewater. <i>Environmental Science & Technology</i> , 2012, 46, 11929-11936.	4.6	60
94	Speciation of Gd-based MRI contrast agents and potential products of transmetalation with iron ions or parenteral iron supplements. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2133-2141.	1.9	41
95	Hyphenated techniques as tools for speciation analysis of metal-based pharmaceuticals: developments and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1501-1522.	1.9	57
96	Identification and quantification of potential metabolites of Gd-based contrast agents by electrochemistry/separations/mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1240, 147-155.	1.8	35
97	Simple and rapid quantification of gadolinium in urine and blood plasma samples by means of total reflection X-ray fluorescence (TXRF). <i>Metallomics</i> , 2011, 3, 1035.	1.0	46
98	Adduct formation of Thimerosal with human and rat hemoglobin: a study using liquid chromatography coupled to electrospray time-of-flight mass spectrometry (LC/ESI-TOF-MS). <i>Metallomics</i> , 2011, 3, 847.	1.0	27
99	The Third International Symposium on Metallomics 2011. <i>Metallomics</i> , 2011, 3, 1263.	1.0	2
100	Speciation Issue. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 22-22.	1.6	3
101	Fast and low sample consuming quantification of manganese in cell nutrient solutions by flow injection ICP-QMS. <i>Metallomics</i> , 2011, 3, 1291.	1.0	8
102	Organometallic derivatizing agents in bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3483-3494.	1.9	34
103	Investigation of the interaction of Mercurochrome [®] constituents with proteins using liquid chromatography/mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3525-3532.	1.9	3
104	Organic Cation Transporter 2 Mediates Cisplatin-Induced Oto- and Nephrotoxicity and Is a Target for Protective Interventions. <i>American Journal of Pathology</i> , 2010, 176, 1169-1180.	1.9	366
105	Detoxification of mercury species ²⁺ an in vitro study with antidotes in human whole blood. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1929-1935.	1.9	33
106	Interaction of thimerosal with proteins ²⁺ ethylmercury adduct formation of human serum albumin and Î2-lactoglobulin A. <i>Metallomics</i> , 2009, 1, 87-91.	1.0	55
107	ICP-MS as a new tool for the determination of gold nanoparticles in bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 249-252.	1.9	89
108	Introducing wet aerosols into the static high sensitivity ICP (SHIP). <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1605-1613.	1.9	8

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109	Speciation and the Emerging Legislation. , 2005, , 737-744.		4
110	Speciation analysis with HPLC-mass spectrometry: time to take stock. Analyst, The, 2005, 130, 998.	1.7	51
111	New torch design for inductively coupled plasma optical emission spectrometry with minimised gas consumption. Journal of Analytical Atomic Spectrometry, 2005, 20, 308.	1.6	31
112	The EC networking on elemental speciation revisited. Accreditation and Quality Assurance, 2004, 9, 268-271.	0.4	0
113	On-line UV-photooxidation with peroxodisulfate for automated flow injection and for high-performance liquid chromatography coupled to hydride generation atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 339-353.	1.5	31
114	The EU network on trace element speciation in full swing. TrAC - Trends in Analytical Chemistry, 2000, 19, 210-214.	5.8	7
115	Flow-injection hydride generation atomic absorption spectrometric study of the automated on-line pre-reduction of arsenate, methylarsonate and dimethylarsinate and high-performance liquid chromatographic separation of their γ -cysteine complexes. Talanta, 2000, 51, 1059-1068.	2.9	50
116	Spatially resolved atomic absorption analysis. Journal of Analytical Atomic Spectrometry, 2000, 15, 1375-1382.	1.6	14
117	Determination of (ultra)trace amounts of lead in biological materials by on-line coupling flow injection microcolumn separation and preconcentration to electrothermal atomic absorption spectrometry using a macrocycle immobilized silica gel sorbent. Journal of Analytical Atomic Spectrometry, 1999, 14, 1625-1629.	1.6	22
118	Application of a Macrocycle Immobilized Silica Gel Sorbent to Flow Injection On-Line Microcolumn Preconcentration and Separation Coupled with Flame Atomic Absorption Spectrometry for Interference-Free Determination of Trace Lead in Biological and Environmental Samples. Analytical Chemistry, 1999, 71, 4216-4222.	3.2	42
119	On-Line Coupling of Flow Injection Microcolumn Separation and Preconcentration to Electrothermal Atomic Absorption Spectrometry for Determination of (Ultra)trace Selenite and Selenate in Water. Analytical Chemistry, 1999, 71, 4353-4360.	3.2	48
120	Speciation determination of arsenic in urine by high-performance liquid chromatography-hydride generation atomic absorption spectrometry with on-line ultraviolet photooxidation. Analyst, The, 1998, 123, 1703-1710.	1.7	66
121	Spatial Distribution of Radiant Intensity from Primary Sources for Atomic Absorption Spectrometry. Part II: Electrodeless Discharge Lamps. Applied Spectroscopy, 1996, 50, 483-497.	1.2	16
122	Three-dimensional structure of the radiation beam in atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 931-940.	1.5	8
123	Spatially and temporally resolved detection of analytical signals in graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 1023-1044.	1.5	22
124	Temporal and spatial temperature distributions in transversely heated graphite tube atomizers and their analytical characteristics for atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 897-930.	1.5	39
125	Investigation of on-line coupling electrothermal atomic absorption spectrometry with flow injection sorption preconcentration using a knotted reactor for totally automatic determination of lead in water samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 1891-1908.	1.5	57
126	Electrothermal atomic absorption spectrometric determination of lead in high-purity reagents with flow-injection on-line microcolumn preconcentration and separation using a macrocycle immobilized silica gel sorbent. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 1875-1889.	1.5	32

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127	CARS thermometry in a transversely heated graphite-tube atomizer used in atomic absorption spectrometry. <i>Applied Physics B: Lasers and Optics</i> , 1995, 61, 201-205.	1.1	4
128	Spatial Distribution of Radiant Intensity from Primary Sources for Atomic Absorption Spectrometry. Part I: Hollow Cathode Lamps. <i>Applied Spectroscopy</i> , 1995, 49, 413-424.	1.2	26
129	Analysis of high-purity reagents using automatic on-line column preconcentration-separation and electrothermal atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 346, 550-555.	1.5	40
130	Expansion of dynamic range of flame atomic absorption spectrometry by an efficient flow injection dilution system based on dispersion of microliter-volume samples. <i>Analytical Chemistry</i> , 1993, 65, 1682-1688.	3.2	36
131	Flow injection on-line acid digestion and pre-reduction of arsenic for hydride generation atomic absorption spectrometry—a feasibility study. <i>Talanta</i> , 1993, 40, 1917-1926.	2.9	53
132	Flow injection: The ultimate approach to automation in analytical atomic spectroscopy. <i>Pure and Applied Chemistry</i> , 1993, 65, 2465-2472.	0.9	14
133	Differential determination of chromium(VI) and total chromium in natural waters using flow injection on-line separation and preconcentration electrothermal atomic absorption spectrometry. <i>Analyst, The</i> , 1992, 117, 629.	1.7	167
134	On-line microwave sample pre-treatment for hydride generation and cold vapour atomic absorption spectrometry. Part 1. The manifold. <i>Analyst, The</i> , 1992, 117, 1729.	1.7	69
135	Palladium nitrate—magnesium nitrate modifier for electrothermal atomic absorption spectrometry. Part 4. Interference of sulfate in the determination of selenium. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 505-509.	1.6	52
136	Determination of chromium(III) and chromium(VI) in water using flow injection on-line preconcentration with selective adsorption on activated alumina and flame atomic absorption spectrometric detection. <i>Analytical Chemistry</i> , 1992, 64, 3101-3108.	3.2	321
137	Determination of ultra-trace concentrations of elements by means of on-line solid sorbent extraction graphite furnace atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 343, 754-755.	1.5	12
138	Flame atomic absorption spectrometric determination of cadmium and copper in biological reference materials using on-line sorbent extraction preconcentration. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 344, 535-540.	1.5	50
139	On-line microwave sample pre-treatment for hydride generation and cold vapour atomic absorption spectrometry. Part 2. Chemistry and applications. <i>Analyst, The</i> , 1992, 117, 1735.	1.7	69
140	On-line microwave sample pretreatment for the determination of mercury in water and urine by flow-injection cold-vapour atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1992, 261, 91-103.	2.6	111
141	Improvement of detection limits for flow-injection flame atomic absorption spectrometry by dedicated signal processing. <i>Analytica Chimica Acta</i> , 1992, 261, 115-123.	2.6	13
142	Time-based and volume-based sampling for flow-injection on-line sorbent extraction graphite furnace atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1992, 261, 477-487.	2.6	47
143	Comparison of three propulsion systems for application in flow-injection zone penetration dilution and sorbent extraction preconcentration for flame atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1992, 269, 9-19.	2.6	18
144	Flow injection on-line separation and preconcentration for electrothermal atomic absorption spectrometry. Part 2. Determination of ultra-trace amounts of cobalt in water. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 615.	1.6	62

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145	Contribution of system components to dispersion in the analysis of micro-volume samples by flow injection flame atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 179.	1.6	22
146	Flame atomic absorption spectrometric determination of lead in biological samples using a flow injection system with on-line preconcentration by coprecipitation without filtration. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 301.	1.6	93
147	Expansion of dynamic working range and correction for interferences in flame atomic absorption spectrometry using flow-injection gradient ratio calibration with a single standard. <i>Analytical Chemistry</i> , 1991, 63, 151-159.	3.2	60
148	Flame Atomic Absorption Spectrometric Determination of Cadmium, Cobalt, and Nickel in Biological Samples Using a Flow Injection System with On-Line Preconcentration by Co-Precipitation without Filtration. <i>Applied Spectroscopy</i> , 1991, 45, 1433-1443.	1.2	60
149	Flow injection on-line separation and preconcentration for electrothermal atomic absorption spectrometry. Part 1. Determination of ultratrace amounts of cadmium, copper, lead and nickel in water samples. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 295.	1.6	103
150	Differential determination of arsenic(III) and total arsenic using flow injection on-line separation and preconcentration for graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1991, 46, 1789-1801.	1.5	78
151	Flow injection on-line sorbent extraction pre-concentration for graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 639.	1.6	125
152	Investigation of reactions and atomization of arsine in a heated quartz tube using atomic absorption and mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1990, 45, 1235-1256.	1.5	21
153	Spatially and temporally resolved gas phase temperature measurements in a Massmann-type graphite tube furnace using coherent anti-Stokes Raman scattering. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1988, 43, 1187-1207.	1.5	92
154	Physical Principles. , 0, , 63-102.		0
155	Spectrometers. , 0, , 103-148.		0
156	Speciation Analysis. , 0, , 323-334.		0