## Michael Sperling

List of Publications by Year in descending order

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76196 110170 5,412 156 40 64 citations h-index g-index papers 180 180 180 4519 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Organic Cation Transporter 2 Mediates Cisplatin-Induced Oto- and Nephrotoxicity and Is a Target for Protective Interventions. American Journal of Pathology, 2010, 176, 1169-1180.	1.9	366
2	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. Analytical Chemistry, 1992, 64, 3101-3108.	3.2	321
3	Differential determination of chromium(VI) and total chromium in natural waters using flow injection on-line separation and preconcentration electrothermal atomic absorption spectrometry. Analyst, The, 1992, 117, 629.	1.7	167
4	Flow injection on-line sorbent extraction pre-concentration for graphite furnace atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 1990, 5, 639.	1.6	125
5	Diagnosis of Nephrogenic Systemic Fibrosis by means of Elemental Bioimaging and Speciation Analysis. Analytical Chemistry, 2015, 87, 3321-3328.	3.2	115
6	On-line microwave sample pretreatment for the determination of mercury in water and urine by flow-injection cold-vapour atomic absorption spectrometry. Analytica Chimica Acta, 1992, 261, 91-103.	2.6	111
7	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
8	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. Journal of Analytical Atomic Spectrometry, 1991, 6, 295.	1.6	103
9	Determination of gadolinium-based MRI contrast agents in biological and environmental samples: A review. Analytica Chimica Acta, 2013, 764, 1-16.	2.6	102
10	Flame atomic absorption spectrometric determination of lead in biological samples using a flow injection system with on-line preconcentration by coprecipitation without filtration. Journal of Analytical Atomic Spectrometry, 1991, 6, 301.	1.6	93
11	Spatially and temporally resolved gas phase temperature measurements in a Massmann-type graphite tube furnace using coherent anti-Stokes Raman scattering. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1988, 43, 1187-1207.	1.5	92
12	ICP-MS as a new tool for the determination of gold nanoparticles in bioanalytical applications. Analytical and Bioanalytical Chemistry, 2008, 390, 249-252.	1.9	89
13	Differential determination of arsenic(III) and total arsenic using flow injection on-line separation and preconcentration for graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1991, 46, 1789-1801.	1.5	78
14	Silver Nanoparticles in the Lung: Toxic Effects and Focal Accumulation of Silver in Remote Organs. Nanomaterials, 2017, 7, 441.	1.9	76
15	On-line microwave sample pre-treatment for hydride generation and cold vapour atomic absorption spectrometry. Part 1. The manifold. Analyst, The, 1992, 117, 1729.	1.7	69
16	On-line microwave sample pre-treatment for hydride generation and cold vapour atomic absorption spectrometry. Part 2. Chemistry and applications. Analyst, The, 1992, 117, 1735.	1.7	69
17	Quantitative bioimaging of platinum in polymer embedded mouse organs using laser ablation ICP-MS. Metallomics, 2013, 5, 1440.	1.0	67
18	Speciation determination of arsenic in urine by high-performance liquid chromatography–hydride generation atomic absorption spectrometry with on-line ultraviolet photooxidationâ€. Analyst, The, 1998, 123, 1703-1710.	1.7	66

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19	Flow injection on-line separation and preconcentration for electrothermal atomic absorption spectrometry. Part 2. Determination of ultra-trace amounts of cobalt in water. Journal of Analytical Atomic Spectrometry, 1991, 6, 615.	1.6	62
20	Expansion of dynamic working range and correction for interferences in flame atomic absorption spectrometry using flow-injection gradient ratio calibration with a single standard. Analytical Chemistry, 1991, 63, 151-159.	3.2	60
21	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. Applied Spectroscopy, 1991, 45, 1433-1443.	1.2	60
22	Speciation and Isotope Dilution Analysis of Gadolinium-Based Contrast Agents in Wastewater. Environmental Science & Environmen	4.6	60
23	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
24	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
25	Hyphenated techniques as tools for speciation analysis of metal-based pharmaceuticals: developments and applications. Analytical and Bioanalytical Chemistry, 2012, 403, 1501-1522.	1.9	57
26	Interaction of thimerosal with proteinsâ€"ethylmercuryadduct formation of human serum albumin and β-lactoglobulin A. Metallomics, 2009, 1, 87-91.	1.0	55
27	Flow injection on-line acid digestion and pre-reduction of arsenic for hydride generation atomic absorption spectrometry—a feasibility study. Talanta, 1993, 40, 1917-1926.	2.9	53
28	Gadolinium Deposition in the Brain in a Large Animal Model. Investigative Radiology, 2019, 54, 531-536.	3.5	53
29	Palladium nitrate–magnesium nitrate modifier for electrothermal atomic absorption spectrometry. Part 4. Interference of sulfate in the determination of selenium. Journal of Analytical Atomic Spectrometry, 1992, 7, 505-509.	1.6	52
30	Speciation analysis with HPLC-mass spectrometry: time to take stock. Analyst, The, 2005, 130, 998.	1.7	51
31	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
32	Flame atomic absorption spectrometric determination of cadmium and copper in biological reference materials using on-line sorbent extraction preconcentration. Fresenius' Journal of Analytical Chemistry, 1992, 344, 535-540.	1.5	50
33	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 ?-cysteine complexes. Talanta, 2000, 51, 1059-1068.	2.9	50
34	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. Journal of Chromatography A, 2013, 1308, 125-131.	1.8	49
35	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
36	Time-based and volume-based sampling for flow-injection on-line sorbent extraction graphite furnace atomic absorption spectrometry. Analytica Chimica Acta, 1992, 261, 477-487.	2.6	47

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37	Simple and rapid quantification of gadolinium in urine and blood plasma samples by means of total reflection X-ray fluorescence (TXRF). Metallomics, 2011, 3, 1035.	1.0	46
38	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
39	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
40	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
41	Speciation of Gd-based MRI contrast agents and potential products of transmetalation with iron ions or parenteral iron supplements. Analytical and Bioanalytical Chemistry, 2012, 404, 2133-2141.	1.9	41
42	Analysis of high-purity reagents using automatic on-line column preconcentration-separation and electrothermal atomic absorption spectrometry. Fresenius' Journal of Analytical Chemistry, 1993, 346, 550-555.	1.5	40
43	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
44	Elemental Bioimaging of Nanosilver-Coated Prostheses Using X-ray Fluorescence Spectroscopy and Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Analytical Chemistry, 2014, 86, 615-620.	3.2	37
45	Expansion of dynamic range of flame atomic absorption spectrometry by an efficient flow injection dilution system based on dispersion of microliter-volume samples. Analytical Chemistry, 1993, 65, 1682-1688.	3.2	36
46	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
47	Identification and quantification of potential metabolites of Gd-based contrast agents by electrochemistry/separations/mass spectrometry. Journal of Chromatography A, 2012, 1240, 147-155.	1.8	35
48	The interaction of platinum-based drugs with native biologically relevant proteins. Analytical and Bioanalytical Chemistry, 2013, 405, 1855-1864.	1.9	35
49	Elemental bioimaging of haematoxylin and eosin-stained tissues by laser ablation ICP-MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 989.	1.6	35
50	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
51	Elemental bioimaging and speciation analysis for the investigation of Wilson's disease using $\hat{l}$ 4XRF and XANES. Metallomics, 2016, 8, 648-653.	1.0	35
52	Organometallic derivatizing agents in bioanalysis. Analytical and Bioanalytical Chemistry, 2010, 397, 3483-3494.	1.9	34
53	Detoxification of mercury speciesâ€"an in vitro study with antidotes in human whole blood. Analytical and Bioanalytical Chemistry, 2009, 395, 1929-1935.	1.9	33
54	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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55	Quantitative bioimaging of platinum group elements in tumor spheroids. Analytica Chimica Acta, 2016, 938, 106-113.	2.6	32
56	Investigating the stability of gadolinium based contrast agents towards UV radiation. Water Research, 2016, 91, 244-250.	5.3	32
57	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
58	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
59	Speciation analysis of the antirheumatic agent Auranofin and its thiol adducts by LC/ESI-MS and LC/ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 975.	1.6	31
60	Laser ablation based bioimaging with simultaneous elemental and molecular mass spectrometry: towards spatially resolved speciation analysis. Rapid Communications in Mass Spectrometry, 2013, 27, 2588-2594.	0.7	31
61	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
62	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
63	In vitro study of thimerosal reactions in human whole blood and plasma surrogate samples. Journal of Trace Elements in Medicine and Biology, 2014, 28, 125-130.	1.5	30
64	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
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	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
67	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). Metallomics, 2011, 3, 847.	1.0	27
68	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
69	Spatial Distribution of Radiant Intensity from Primary Sources for Atomic Absorption Spectrometry. Part I: Hollow Cathode Lamps. Applied Spectroscopy, 1995, 49, 413-424.	1.2	26
70	Analysis of metal-based contrast agents in medicine and the environment. TrAC - Trends in Analytical Chemistry, 2018, 104, 135-147.	5.8	26
71	Ambient molecular imaging by laser ablation atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2595-2600.	0.7	25
72	A palladium label to monitor nanoparticle-assisted drug delivery of a photosensitizer into tumor spheroids by elemental bioimaging. Metallomics, 2014, 6, 77-81.	1.0	25

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73	Quantitative Bioimaging to Investigate the Uptake of Mercury Species in <i>Drosophila melanogaster</i> . Analytical Chemistry, 2015, 87, 10392-10396.	3.2	23
74	Quantitative Bioimaging of Platinum via Online Isotope Dilution-Laser Ablation-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2018, 90, 7033-7039.	3.2	23
75	Contribution of system components to dispersion in the analysis of micro-volume samples by flow injection flame atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 1991, 6, 179.	1.6	22
76	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
77	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
78	Investigation of reactions and atomization of arsine in a heated quartz tube using atomic absorption and mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1990, 45, 1235-1256.	1.5	21
79	Interaction of the New Monofunctional Anticancer Agent Phenanthriplatin With Transporters for Organic Cations. Frontiers in Chemistry, 2018, 6, 180.	1.8	21
80	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
81	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
82	Comparison of three propulsion systems for application in flow-injection zone penetration dilution and sorbent extraction preconcentration for flame atomic absorption spectrometry. Analytica Chimica Acta, 1992, 269, 9-19.	2.6	18
83	Impact of the Particle Diameter on Ion Cloud Formation from Gold Nanoparticles in ICPMS. Analytical Chemistry, 2018, 90, 10271-10278.	3.2	18
84	Allergic reaction to a green tattoo with nickel as a possible allergen. Contact Dermatitis, 2019, 81, 64-66.	0.8	18
85	Effect of Long-Term Retention of Gadolinium on Metabolism of Deep Cerebellar Nuclei After Repeated Injections of Gadodiamide in Rats. Investigative Radiology, 2020, 55, 120-128.	3.5	18
86	Complexation and oxidation strategies for improved TXRF determination of mercury in vaccines. Journal of Analytical Atomic Spectrometry, 2013, 28, 719.	1.6	17
87	Gadolinium Tissue Distribution in a Large-Animal Model after a Single Dose of Gadolinium-based Contrast Agents. Radiology, 2021, 301, 637-642.	3.6	17
88	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
89	Nitrogen purged TXRF for the quantification of silver and palladium. Journal of Analytical Atomic Spectrometry, 2012, 27, 1799.	1.6	16
90	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

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91	Combination of micro X-ray fluorescence spectroscopy and time-of-flight secondary ion mass spectrometry imaging for the marker-free detection of CeO <sub>2</sub> nanoparticles in tissue sections. Journal of Analytical Atomic Spectrometry, 2018, 33, 491-501.	1.6	15
92	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
93	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
94	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
95	Revealing Silver Nanoparticle Uptake by Macrophages Using SR-νXRF and LA-ICP-MS. Chemical Research in Toxicology, 2020, 33, 1250-1255.	1.7	15
96	Flow injection: The ultimate approach to automation in analytical atomic spectroscopy. Pure and Applied Chemistry, 1993, 65, 2465-2472.	0.9	14
97	Spatially resolved atomic absorption analysis. Journal of Analytical Atomic Spectrometry, 2000, 15, 1375-1382.	1.6	14
98	On-line species-unspecific isotope dilution analysis in the picomolar range reveals the time- and species-depending mercury uptake in human astrocytes. Analytical and Bioanalytical Chemistry, 2014, 406, 1909-1916.	1.9	14
99	Phosphonate coating of SiO2 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
100	Improvement of detection limits for flow-injection flame atomic absorption spectrometry by dedicated signal processing. Analytica Chimica Acta, 1992, 261, 115-123.	2.6	13
101	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
102	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
103	Deposition patterns of iatrogenic lanthanum and gadolinium in the human body depend on delivered chemical binding forms. Journal of Trace Elements in Medicine and Biology, 2021, 63, 126665.	1.5	13
104	Determination of ultra-trace concentrations of elements by means of on-line solid sorbent extraction graphite furnace atomic absorption spectrometry. Fresenius' Journal of Analytical Chemistry, 1992, 343, 754-755.	1.5	12
105	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
106	Imaging metals in Caenorhabditis elegans. Metallomics, 2017, 9, 357-364.	1.0	12
107	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
108	$\hat{l}$ 4XRF 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

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109	Long-term Gadolinium Retention in the Healthy Rat Brain: Comparison between Gadopiclenol, Gadobutrol, and Gadodiamide. Radiology, 2022, 305, 179-189.	3.6	12
110	Low gas flow inductively coupled plasma optical emission spectrometry for the analysis of food samples after microwave digestion. Talanta, 2014, 129, 575-578.	2.9	11
111	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
112	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
113	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
114	Mild Dissolution/Recomplexation Strategy for Speciation Analysis of Gadolinium from MR Contrast Agents in Bone Tissues by Means of HPLC-ICP-MS. Analytical Chemistry, 2021, 93, 11398-11405.	3.2	11
115	Development of a novel low-flow ion source/sampling cone geometry for inductively coupled plasma mass spectrometry and application in hyphenated techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 48-55.	1.5	10
116	Adduct formation of ionic and nanoparticular silver with amino acids and glutathione. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	10
117	Weighted Linear Regression Improves Accuracy of Quantitative Elemental Bioimaging by Means of LA-ICP-MS. Analytical Chemistry, 2021, 93, 15720-15727.	3.2	10
118	Influence of cimetidine and its metabolites on Cisplatin—Investigation of adduct formation by means of electrochemistry/liquid chromatography/electrospray mass spectrometry. Journal of Chromatography A, 2013, 1279, 49-57.	1.8	9
119	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
120	Rapid cell mode switching and dual laser ablation inductively coupled plasma mass spectrometry for elemental bioimaging. Rapid Communications in Mass Spectrometry, 2014, 28, 2627-2635.	0.7	9
121	Fast and automated monitoring of gadolinium-based contrast agents in surface waters. Water Research, 2021, 207, 117836.	5.3	9
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	Introducing wet aerosols into the static high sensitivity ICP (SHIP). Analytical and Bioanalytical Chemistry, 2007, 388, 1605-1613.	1.9	8
124	Fast and low sample consuming quantification of manganese in cell nutrient solutions by flow injection ICP-QMS. Metallomics, 2011, 3, 1291.	1.0	8
125	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
126	Multimodal imaging of hallucinogens 25C―and 25Iâ€NBOMe on blotter papers. Drug Testing and Analysis, 2020, 12, 465-471.	1.6	8

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127	The EU network on trace element speciation in full swing. TrAC - Trends in Analytical Chemistry, 2000, 19, 210-214.	<b>5.</b> 8	7
128	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
129	Quantification of Manganese Enhanced Magnetic Resonance Imaging based on Spatially Resolved Elemental Mass Spectrometry. ChemistrySelect, 2016, 1, 264-266.	0.7	6
130	Elemental bioimaging of Na distribution in roots of Arabidopsis thaliana using laser ablation-ICP-MS under cold plasma conditions. Journal of Analytical Atomic Spectrometry, 2020, 35, 2057-2063.	1.6	6
131	Spatially and size-resolved analysis of gold nanoparticles in rat spleen after intratracheal instillation by laser ablation-inductively coupled plasma-mass spectrometry. Metallomics, 2021, 13, .	1.0	5
132	Elemental bioimaging of Zn and Cd in leaves of hyperaccumulator Arabidopsis halleri using laser ablation-inductively coupled plasma-mass spectrometry and referencing strategies. Chemosphere, 2022, 305, 135267.	4.2	5
133	CARS thermometry in a transversely heated graphite-tube atomizer used in atomic absorption spectrometry. Applied Physics B: Lasers and Optics, 1995, 61, 201-205.	1.1	4
134	Speciation and the Emerging Legislation. , 2005, , 737-744.		4
135	A simple preparation protocol for shipping and storage of tissue sections for laser ablation-inductively coupled plasma-mass spectrometry imaging. Metallomics, 2022, 14, .	1.0	4
136	Investigation of the interaction of Mercurochrome® constituents with proteins using liquid chromatography/mass spectrometry. Analytical and Bioanalytical Chemistry, 2010, 397, 3525-3532.	1.9	3
137	Speciation Issue. Journal of Analytical Atomic Spectrometry, 2011, 26, 22-22.	1.6	3
138	Complementary approach for analysis of phospholipids by liquid chromatography hyphenated to elemental and molecular mass spectrometry. Analytical Science Advances, 2020, 1, 46.	1.2	3
139	Combined speciation analysis and elemental bioimaging provide new insight into gadolinium retention in kidney. Metallomics, 2022, 14, .	1.0	3
140	Species-dependent interaction of Gd-based contrast agents with humic substances. Chemosphere, 2022, 300, 134528.	4.2	3
141	The Third International Symposium on Metallomics 2011. Metallomics, 2011, 3, 1263.	1.0	2
142	Metallomics: an emerging interdisciplinary science. Analytical and Bioanalytical Chemistry, 2013, 405, 1789-1790.	1.9	2
143	Chromiumâ~†., 2014, , .		2
144	A mass spectrometry-based approach gives new insight into organotin–protein interactions. Metallomics, 2020, 12, 1702-1712.	1.0	2

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145	2015 European Winter Conference on Plasma Spectrochemistry. Journal of Analytical Atomic Spectrometry, 2015, 30, 2035-2037.	1.6	1
146	Quantitative elemental bioimaging: an antibody-based double-labelling method to quantify the cell-specific distribution of silver nanoparticles in lung tissue sections. Journal of Analytical Atomic Spectrometry, 2022, 37, 1084-1089.	1.6	1
147	The EC networking on elemental speciation revisited. Accreditation and Quality Assurance, 2004, 9, 268-271.	0.4	0
148	Analytische Chemie 2014/2015. Nachrichten Aus Der Chemie, 2016, 64, 497-508.	0.0	0
149	Biolabeling with cobaltocinium tags. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 781-791.	0.3	0
150	3.1 Analysis of rare-earth metals and their species. , 2020, , 225-234.		0
151	Trendbericht Analytische Chemie II: Trenntechniken und Elektroanalytik. Nachrichten Aus Der Chemie, 2020, 68, 48-53.	0.0	O
152	A fast and automated separation and quantification method for bromine speciation analyzing bromide and 5-bromo-2'-deoxyuridine in enzymatically digested DNA samples via ion chromatography-inductively coupled plasma-mass spectrometry. Journal of Chromatography A, 2021, 1652, 462370.	1.8	0
153	Physical Principles., 0,, 63-102.		0
154	Spectrometers., 0,, 103-148.		0
155	Speciation Analysis., 0,, 323-334.		0
156	Gadolinium retention in the tunica media of arterial wallsâ€"a complementary study using elemental bioimaging and immunogold staining. Metallomics, 2022, 14, .	1.0	0