Zhen-Li Zhu

List of Publications by Year
in descending order

69 papers	2,423 citations	126907 33 h-index	223800 46 g-index
70 all docs	70 docs citations	70 times ranked	1403 citing authors

#	Article	IF	Citations
1	Antimony isotope fractionation during adsorption on aluminum oxides. Journal of Hazardous Materials, 2022, 429, 128317.	12.4	18
2	Electrothermal Desolvation-Enhanced Dielectric Barrier Discharge Plasma-Induced Vapor Generation for Sensitive Determination of Antimony by Atomic Fluorescence Spectrometry. Analytical Chemistry, 2022, 94, 4455-4462.	6.5	11
3	Plasma-mediated vapor generation techniques. , 2022, , 283-315.		0
4	Fast and highly sensitive Cd isotopic analyses in low-Cd complex samples with MC-ICPMS based on plasma electrochemical vapor generation. Analytica Chimica Acta, 2022, 1215, 339980.	5.4	7
5	One-step separation of Cu, Fe, Zn and Cd and isotope ratio analysis by MC-ICP-MS for geological samples. Analytical Methods, 2022, 14, 2782-2792.	2.7	2
6	Stable isotope fractionation of cadmium in the soil-rice-human continuum. Science of the Total Environment, 2021, 761, 143262.	8.0	28
7	A new purification method based on a thiol silica column for high precision antimony isotope measurements. Journal of Analytical Atomic Spectrometry, 2021, 36, 157-164.	3.0	15
8	High precision cadmium isotope analysis of geological reference materials by double spike MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2021, 36, 390-398.	3.0	16
9	Magnetic enhancement for the analysis of scintillation crystals by radio frequency glow discharge mass spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 932-937.	3.0	0
10	Development of an Automatic Column Chromatography Separation Device for Metal Isotope Analysis Based on Droplet Counting. Analytical Chemistry, 2021, 93, 7196-7203.	6.5	4
11	Sensitivity and High-Precision Lead Isotopic Analysis by Multicollector Inductively Coupled Plasma Mass Spectrometry Based on Liquid Spray Dielectric Barrier Discharge Plasma-Induced Chemical Vapor Generation. ACS Earth and Space Chemistry, 2021, 5, 1762-1771.	2.7	8
12	Development of a Portable Method for Serum Lithium Measurement Based on Low-Cost Miniaturized Ultrasonic Nebulization Coupled with Atmospheric-Pressure Air-Sustained Discharge. Analytical Chemistry, 2021, 93, 13351-13359.	6.5	8
13	Quantitative analysis of lithium in brine by laser-induced breakdown spectroscopy based on convolutional neural network. Analytica Chimica Acta, 2021, 1178, 338799.	5.4	20
14	Direct and Sensitive Determination of Antimony in Water by Hydrogen-Doped Solution Anode Glow Discharge-Optical Emission Spectrometry Without Hydride Generation. Analytical Chemistry, 2021, 93, 16393-16400.	6.5	14
15	Plasma induced chemical vapor generation for atomic spectrometry: A review. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 167, 105822.	2.9	35
16	Effects of exogenous dissolved organic matter on the adsorptionâ€"desorption behaviors and bioavailabilities of Cd and Hg in a plantâ€"soil system. Science of the Total Environment, 2020, 728, 138252.	8.0	41
17	Performance Evaluation of Atmospheric Pressure Glow Discharge-Optical Emission Spectrometry for the Determination of Sodium, Lithium, Calcium and Magnesium Using Membrane Desolvation. Atomic Spectroscopy, 2020, 41, 57-63.	1.2	9
18	Direct determination of cadmium in rice by solid sampling electrothermal vaporization atmospheric pressure glow discharge atomic emission spectrometry using a tungsten coil trap. Journal of Analytical Atomic Spectrometry, 2019, 34, 1786-1793.	3.0	19

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19	Interpretation of Lateâ€Pleistocene/Holocene Transition in the Sea of Marmara From Geochemistry of Bulk Carbonates. Geochemistry, Geophysics, Geosystems, 2019, 20, 4487-4504.	2.5	3
20	Determination of antimony in water samples by hydride generation coupled with atmospheric pressure glow discharge atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 331-337.	3.0	22
21	Redistribution of Electron Equivalents between Magnetite and Aqueous Fe2+ Induced by a Model Quinone Compound AQDS. Environmental Science & Technology, 2019, 53, 1863-1873.	10.0	18
22	Determination of trace cadmium in geological samples by membrane desolvation inductively coupled plasma mass spectrometry. Microchemical Journal, 2019, 148, 561-567.	4.5	20
23	A practical method for measuring high precision calcium isotope ratios without chemical purification for calcium carbonate samples by multiple collector inductively coupled plasma mass spectrometry. Chemical Geology, 2019, 514, 105-111.	3.3	8
24	Highly Sensitive Determination of Arsenic and Antimony Based on an Interrupted Gas Flow Atmospheric Pressure Glow Discharge Excitation Source. Analytical Chemistry, 2019, 91, 1912-1919.	6.5	35
25	Simultaneous Sensitive Determination of Selenium, Silver, Antimony, Lead, and Bismuth in Microsamples Based on Liquid Spray Dielectric Barrier Discharge Plasma-Induced Vapor Generation. Analytical Chemistry, 2019, 91, 928-934.	6.5	34
26	Determination of trace cadmium in rice by liquid spray dielectric barrier discharge induced plasma â^'chemical vapor generation coupled with atomic fluorescence spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 141, 15-21.	2.9	34
27	Determination of nitrite in water samples using atmospheric pressure glow discharge microplasma emission and chemical vapor generation of NO species. Analytica Chimica Acta, 2018, 1001, 100-105.	5.4	19
28	Determination of nitrate and ammonium ions in water samples by atmospheric pressure glow discharge microplasma molecular emission spectrometry coupled with chemical vapour generation. Journal of Analytical Atomic Spectrometry, 2018, 33, 2153-2159.	3.0	8
29	Reversible Fe(<scp>ii</scp>) uptake/release by magnetite nanoparticles. Environmental Science: Nano, 2018, 5, 1545-1555.	4.3	20
30	Generation of Volatile Cadmium and Zinc Species Based on Solution Anode Glow Discharge Induced Plasma Electrochemical Processes. Analytical Chemistry, 2017, 89, 3739-3746.	6.5	64
31	Battery-Operated Atomic Emission Analyzer for Waterborne Arsenic Based on Atmospheric Pressure Glow Discharge Excitation Source. Analytical Chemistry, 2017, 89, 3694-3701.	6.5	45
32	The online coupling of high performance liquid chromatography with atomic fluorescence spectrometry based on dielectric barrier discharge induced chemical vapor generation for the speciation of mercury. Journal of Analytical Atomic Spectrometry, 2017, 32, 678-685.	3.0	26
33	Liquid Spray Dielectric Barrier Discharge Induced Plasmaâ€"Chemical Vapor Generation for the Determination of Lead by ICPMS. Analytical Chemistry, 2017, 89, 6827-6833.	6.5	54
34	Abiotic degradation of methyl parathion by manganese dioxide: Kinetics and transformation pathway. Chemosphere, 2016, 150, 90-96.	8.2	37
35	Simultaneous Determination of Size and Quantification of Gold Nanoparticles by Direct Coupling Thin layer Chromatography with Catalyzed Luminol Chemiluminescence. Scientific Reports, 2016, 6, 24577.	3.3	14
36	Evaluation of flow injection-solution cathode glow discharge-atomic emission spectrometry for the determination of major elements in brines. Talanta, 2016, 155, 314-320.	5.5	46

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37	Highly sensitive elemental analysis of Cd and Zn by solution anode glow discharge atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 1089-1096.	3.0	57
38	Significant signal enhancement of dielectric barrier discharge plasma induced vapor generation by using non-ionic surfactants for determination of mercury and cadmium by atomic fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 383-389.	3.0	36
39	The Determination of Protein-Based Arsenic in Shrimp Tissues by Hydride Generation-Atomic Fluorescence Spectrometer. Food Analytical Methods, 2016, 9, 1-6.	2.6	66
40	Quantitative Characterization of Gold Nanoparticles by Coupling Thin Layer Chromatography with Laser Ablation Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2015, 87, 6079-6087.	6.5	32
41	Determination of Platinum Group Elements in Sulfide-Containing Minerals by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry with Synthetic Calibration Standards. Analytical Letters, 2015, 48, 830-842.	1.8	5
42	Dielectric barrier discharge micro-plasma emission source for the determination of lead in water samples by tungsten coil electro-thermal vaporization. Talanta, 2015, 132, 106-111.	5.5	28
43	Electrodeposition as a Preconcentration and Sample Preparation Technique for Trace Selenium and Tellurium Determination by X-Ray Fluorescence Spectrometry. Analytical Letters, 2014, 47, 843-854.	1.8	6
44	Determination of trace amounts of Pb, Cd, Ni and Co by wavelength-dispersive X-ray fluorescence spectrometry after preconcentration with dithizone functionalized graphene. Analytical Methods, 2014, 6, 8569-8576.	2.7	24
45	Detection of HIV-1 p24 antigen using streptavidinâ€“biotin and gold nanoparticles based immunoassay by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 1477-1482.	3.0	33
46	High-efficiency photooxidation vapor generation of osmium for determination by inductively coupled plasma-optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 506.	3.0	21
47	Flowing and Nonflowing Liquid Electrode Discharge Microplasma for Metal Ion Detection by Optical Emission Spectrometry. Applied Spectroscopy Reviews, 2014, 49, 249-269.	6.7	60
48	Cold vapor generation of Zn based on dielectric barrier discharge induced plasma chemical process for the determination of water samples by atomic fluorescence spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 7523-7531.	3.7	38
49	Plasma-induced vapor generation technique for analytical atomic spectrometry. Reviews in Analytical Chemistry, 2014, 33, .	3.2	22
50	Evaluation of a new dielectric barrier discharge excitation source for the determination of arsenic with atomic emission spectrometry. Talanta, 2014, 122, 234-239.	5.5	46
51	On line vapor generation of osmium based on solution cathode glow discharge for the determination by ICP-OES. Talanta, 2013, 106, 133-136.	5.5	49
52	Significant sensitivity improvement of alternating current driven-liquid discharge by using formic acid medium for optical determination of elements. Talanta, 2013, 106, 144-149.	5.5	57
53	Dielectric Barrier Discharge for High Efficiency Plasma-Chemical Vapor Generation of Cadmium. Analytical Chemistry, 2013, 85, 4150-4156.	6.5	56
54	Elemental Determination of Microsamples by Liquid Film Dielectric Barrier Discharge Atomic Emission Spectrometry. Analytical Chemistry, 2012, 84, 4179-4184.	6.5	64

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55	Plasma Jet Desorption Atomization-Atomic Fluorescence Spectrometry and Its Application to Mercury Speciation by Coupling with Thin Layer Chromatography. Analytical Chemistry, 2012, 84, 10170-10174.	6.5	53
56	Dielectric barrier discharge micro-plasma emission source for the determination of thimerosal in vaccines by photochemical vapor generation. Microchemical Journal, 2012, 104, 7-11.	4.5	40
57	Dielectric barrier discharge-plasma induced vaporization for the determination of thiomersal in vaccines by atomic fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2012, 27, 496.	3.0	39
58	Soil monitoring of arsenic by methanol addition DRC ICP-MS after boiling aqua regia extraction. Journal of Analytical Atomic Spectrometry, 2011, 26, 2076.	3.0	21
59	Application of ion molecule reaction to eliminate WO interference on mercury determination in soil and sediment samples by ICP-MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 1198.	3.0	28
60	Dielectric barrier discharge-plasma induced vaporization and its application to the determination of mercury by atomic fluorescence spectrometry. Analyst, The, 2011, 136, 4539.	3.5	47
61	Alternating current driven atmospheric-pressure liquid discharge for the determination of elements with optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2011, 26, 1178.	3.0	56
62	Solution cathode glow discharge induced vapor generation of mercury and its application to mercury speciation by high performance liquid chromatographyâ€“atomic fluorescence spectrometry. Journal of Chromatography A, 2011, 1218, 4462-4467.	3.7	46
63	Non-chromatographic determination of inorganic and total mercury by atomic absorption spectrometry based on a dielectric barrier discharge atomizer. Journal of Analytical Atomic Spectrometry, 2010, 25, 697.	3.0	47
64	Solution cathode glow discharge induced vapor generation of iodine for determination by inductively coupled plasma optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2010, 25, 1390.	3.0	43
65	Evaluation of a hydride generation-atomic fluorescence system for the determination of arsenic using a dielectric barrier discharge atomizer. Analytica Chimica Acta, 2008, 607, 136-141.	5.4	58
66	Determination of Se, Pb, and Sb by atomic fluorescence spectrometry using a new flameless, dielectric barrier discharge atomizer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 431-436.	2.9	60
67	Use of a Solution Cathode Glow Discharge for Cold Vapor Generation of Mercury with Determination by ICP-Atomic Emission Spectrometry. Analytical Chemistry, 2008, 80, 7043-7050.	6.5	165
68	Microplasma Source Based on a Dielectric Barrier Discharge for the Determination of Mercury by Atomic Emission Spectrometry. Analytical Chemistry, 2008, 80, 8622-8627.	6.5	131
69	Atomization of Hydride with a Low-Temperature, Atmospheric Pressure Dielectric Barrier Discharge and Its Application to Arsenic Speciation with Atomic Absorption Spectrometry. Analytical Chemistry, 2006, 78, 865-872.	6.5	119