

# Zhen-Li Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1568464/publications.pdf>

Version: 2024-02-01

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	Use of a Solution Cathode Glow Discharge for Cold Vapor Generation of Mercury with Determination by ICP-Atomic Emission Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 7043-7050.	6.5	165
2	Microplasma Source Based on a Dielectric Barrier Discharge for the Determination of Mercury by Atomic Emission Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 8622-8627.	6.5	131
3	Atomization of Hydride with a Low-Temperature, Atmospheric Pressure Dielectric Barrier Discharge and Its Application to Arsenic Speciation with Atomic Absorption Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 865-872.	6.5	119
4	The Determination of Protein-Based Arsenic in Shrimp Tissues by Hydride Generation-Atomic Fluorescence Spectrometer. <i>Food Analytical Methods</i> , 2016, 9, 1-6.	2.6	66
5	Elemental Determination of Microsamples by Liquid Film Dielectric Barrier Discharge Atomic Emission Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 4179-4184.	6.5	64
6	Generation of Volatile Cadmium and Zinc Species Based on Solution Anode Glow Discharge Induced Plasma Electrochemical Processes. <i>Analytical Chemistry</i> , 2017, 89, 3739-3746.	6.5	64
7	Determination of Se, Pb, and Sb by atomic fluorescence spectrometry using a new flameless, dielectric barrier discharge atomizer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 431-436.	2.9	60
8	Flowing and Nonflowing Liquid Electrode Discharge Microplasma for Metal Ion Detection by Optical Emission Spectrometry. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 249-269.	6.7	60
9	Evaluation of a hydride generation-atomic fluorescence system for the determination of arsenic using a dielectric barrier discharge atomizer. <i>Analytica Chimica Acta</i> , 2008, 607, 136-141.	5.4	58
10	Significant sensitivity improvement of alternating current driven-liquid discharge by using formic acid medium for optical determination of elements. <i>Talanta</i> , 2013, 106, 144-149.	5.5	57
11	Highly sensitive elemental analysis of Cd and Zn by solution anode glow discharge atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1089-1096.	3.0	57
12	Alternating current driven atmospheric-pressure liquid discharge for the determination of elements with optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1178.	3.0	56
13	Dielectric Barrier Discharge for High Efficiency Plasma-Chemical Vapor Generation of Cadmium. <i>Analytical Chemistry</i> , 2013, 85, 4150-4156.	6.5	56
14	Liquid Spray Dielectric Barrier Discharge Induced Plasma-Induced Chemical Vapor Generation for the Determination of Lead by ICPMS. <i>Analytical Chemistry</i> , 2017, 89, 6827-6833.	6.5	54
15	Plasma Jet Desorption Atomization-Atomic Fluorescence Spectrometry and Its Application to Mercury Speciation by Coupling with Thin Layer Chromatography. <i>Analytical Chemistry</i> , 2012, 84, 10170-10174.	6.5	53
16	On line vapor generation of osmium based on solution cathode glow discharge for the determination by ICP-OES. <i>Talanta</i> , 2013, 106, 133-136.	5.5	49
17	Non-chromatographic determination of inorganic and total mercury by atomic absorption spectrometry based on a dielectric barrier discharge atomizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 697.	3.0	47
18	Dielectric barrier discharge-plasma induced vaporization and its application to the determination of mercury by atomic fluorescence spectrometry. <i>Analyst, The</i> , 2011, 136, 4539.	3.5	47

#	ARTICLE	IF	CITATIONS
19	Solution cathode glow discharge induced vapor generation of mercury and its application to mercury speciation by high performance liquid chromatography-atomic fluorescence spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 4462-4467.	3.7	46
20	Evaluation of a new dielectric barrier discharge excitation source for the determination of arsenic with atomic emission spectrometry. <i>Talanta</i> , 2014, 122, 234-239.	5.5	46
21	Evaluation of flow injection-solution cathode glow discharge-atomic emission spectrometry for the determination of major elements in brines. <i>Talanta</i> , 2016, 155, 314-320.	5.5	46
22	Battery-Operated Atomic Emission Analyzer for Waterborne Arsenic Based on Atmospheric Pressure Glow Discharge Excitation Source. <i>Analytical Chemistry</i> , 2017, 89, 3694-3701.	6.5	45
23	Solution cathode glow discharge induced vapor generation of iodine for determination by inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1390.	3.0	43
24	Effects of exogenous dissolved organic matter on the adsorption-desorption behaviors and bioavailabilities of Cd and Hg in a plant-soil system. <i>Science of the Total Environment</i> , 2020, 728, 138252.	8.0	41
25	Dielectric barrier discharge micro-plasma emission source for the determination of thimerosal in vaccines by photochemical vapor generation. <i>Microchemical Journal</i> , 2012, 104, 7-11.	4.5	40
26	Dielectric barrier discharge-plasma induced vaporization for the determination of thiomersal in vaccines by atomic fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 496.	3.0	39
27	Cold vapor generation of Zn based on dielectric barrier discharge induced plasma chemical process for the determination of water samples by atomic fluorescence spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7523-7531.	3.7	38
28	Abiotic degradation of methyl parathion by manganese dioxide: Kinetics and transformation pathway. <i>Chemosphere</i> , 2016, 150, 90-96.	8.2	37
29	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 383-389.	3.0	36
30	Highly Sensitive Determination of Arsenic and Antimony Based on an Interrupted Gas Flow Atmospheric Pressure Glow Discharge Excitation Source. <i>Analytical Chemistry</i> , 2019, 91, 1912-1919.	6.5	35
31	Plasma induced chemical vapor generation for atomic spectrometry: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105822.	2.9	35
32	Determination of trace cadmium in rice by liquid spray dielectric barrier discharge induced plasma -chemical vapor generation coupled with atomic fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 141, 15-21.	2.9	34
33	Simultaneous Sensitive Determination of Selenium, Silver, Antimony, Lead, and Bismuth in Microsamples Based on Liquid Spray Dielectric Barrier Discharge Plasma-Induced Vapor Generation. <i>Analytical Chemistry</i> , 2019, 91, 928-934.	6.5	34
34	Detection of HIV-1 p24 antigen using streptavidin-biotin and gold nanoparticles based immunoassay by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1477-1482.	3.0	33
35	Quantitative Characterization of Gold Nanoparticles by Coupling Thin Layer Chromatography with Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 6079-6087.	6.5	32
36	Application of ion molecule reaction to eliminate WO interference on mercury determination in soil and sediment samples by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1198.	3.0	28

#	ARTICLE	IF	CITATIONS
37	Dielectric barrier discharge micro-plasma emission source for the determination of lead in water samples by tungsten coil electro-thermal vaporization. <i>Talanta</i> , 2015, 132, 106-111.	5.5	28
38	Stable isotope fractionation of cadmium in the soil-rice-human continuum. <i>Science of the Total Environment</i> , 2021, 761, 143262.	8.0	28
39	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 678-685.	3.0	26
40	Determination of trace amounts of Pb, Cd, Ni and Co by wavelength-dispersive X-ray fluorescence spectrometry after preconcentration with dithizone functionalized graphene. <i>Analytical Methods</i> , 2014, 6, 8569-8576.	2.7	24
41	Plasma-induced vapor generation technique for analytical atomic spectrometry. <i>Reviews in Analytical Chemistry</i> , 2014, 33, .	3.2	22
42	Determination of antimony in water samples by hydride generation coupled with atmospheric pressure glow discharge atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 331-337.	3.0	22
43	Soil monitoring of arsenic by methanol addition DRC ICP-MS after boiling aqua regia extraction. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2076.	3.0	21
44	High-efficiency photooxidation vapor generation of osmium for determination by inductively coupled plasma-optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 506.	3.0	21
45	Reversible Fe( <sup>ii</sup> ) uptake/release by magnetite nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 1545-1555.	4.3	20
46	Determination of trace cadmium in geological samples by membrane desolvation inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2019, 148, 561-567.	4.5	20
47	Quantitative analysis of lithium in brine by laser-induced breakdown spectroscopy based on convolutional neural network. <i>Analytica Chimica Acta</i> , 2021, 1178, 338799.	5.4	20
48	Determination of nitrite in water samples using atmospheric pressure glow discharge microplasma emission and chemical vapor generation of NO species. <i>Analytica Chimica Acta</i> , 2018, 1001, 100-105.	5.4	19
49	Direct determination of cadmium in rice by solid sampling electrothermal vaporization atmospheric pressure glow discharge atomic emission spectrometry using a tungsten coil trap. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1786-1793.	3.0	19
50	Redistribution of Electron Equivalents between Magnetite and Aqueous Fe <sup>2+</sup> Induced by a Model Quinone Compound AQDS. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1863-1873.	10.0	18
51	Antimony isotope fractionation during adsorption on aluminum oxides. <i>Journal of Hazardous Materials</i> , 2022, 429, 128317.	12.4	18
52	High precision cadmium isotope analysis of geological reference materials by double spike MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 390-398.	3.0	16
53	A new purification method based on a thiol silica column for high precision antimony isotope measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 157-164.	3.0	15
54	Simultaneous Determination of Size and Quantification of Gold Nanoparticles by Direct Coupling Thin layer Chromatography with Catalyzed Luminol Chemiluminescence. <i>Scientific Reports</i> , 2016, 6, 24577.	3.3	14

#	ARTICLE	IF	CITATIONS
55	Direct and Sensitive Determination of Antimony in Water by Hydrogen-Doped Solution Anode Glow Discharge-Optical Emission Spectrometry Without Hydride Generation. <i>Analytical Chemistry</i> , 2021, 93, 16393-16400.	6.5	14
56	Electrothermal Desolvation-Enhanced Dielectric Barrier Discharge Plasma-Induced Vapor Generation for Sensitive Determination of Antimony by Atomic Fluorescence Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 4455-4462.	6.5	11
57	Performance Evaluation of Atmospheric Pressure Glow Discharge-Optical Emission Spectrometry for the Determination of Sodium, Lithium, Calcium and Magnesium Using Membrane Desolvation. <i>Atomic Spectroscopy</i> , 2020, 41, 57-63.	1.2	9
58	Determination of nitrate and ammonium ions in water samples by atmospheric pressure glow discharge microplasma molecular emission spectrometry coupled with chemical vapour generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2153-2159.	3.0	8
59	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. <i>Chemical Geology</i> , 2019, 514, 105-111.	3.3	8
60	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. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1762-1771.	2.7	8
61	Development of a Portable Method for Serum Lithium Measurement Based on Low-Cost Miniaturized Ultrasonic Nebulization Coupled with Atmospheric-Pressure Air-Sustained Discharge. <i>Analytical Chemistry</i> , 2021, 93, 13351-13359.	6.5	8
62	Fast and highly sensitive Cd isotopic analyses in low-Cd complex samples with MC-ICPMS based on plasma electrochemical vapor generation. <i>Analytica Chimica Acta</i> , 2022, 1215, 339980.	5.4	7
63	Electrodeposition as a Preconcentration and Sample Preparation Technique for Trace Selenium and Tellurium Determination by X-Ray Fluorescence Spectrometry. <i>Analytical Letters</i> , 2014, 47, 843-854.	1.8	6
64	Determination of Platinum Group Elements in Sulfide-Containing Minerals by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry with Synthetic Calibration Standards. <i>Analytical Letters</i> , 2015, 48, 830-842.	1.8	5
65	Development of an Automatic Column Chromatography Separation Device for Metal Isotope Analysis Based on Droplet Counting. <i>Analytical Chemistry</i> , 2021, 93, 7196-7203.	6.5	4
66	Interpretation of Late Pleistocene/Holocene Transition in the Sea of Marmara From Geochemistry of Bulk Carbonates. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4487-4504.	2.5	3
67	One-step separation of Cu, Fe, Zn and Cd and isotope ratio analysis by MC-ICP-MS for geological samples. <i>Analytical Methods</i> , 2022, 14, 2782-2792.	2.7	2
68	Magnetic enhancement for the analysis of scintillation crystals by radio frequency glow discharge mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 932-937.	3.0	0
69	Plasma-mediated vapor generation techniques. , 2022, , 283-315.		0