Yanbei Zhu

List of Publications by Year
in descending order

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100 papers	2,545 citations	257450 24 h-index	197818 49 g-index
105 all docs	105 docs citations	105 times ranked	3300 citing authors

#	Article	IF	Citations
1	A Layered P2â€•and O3â€Type Composite as a Highâ€Energy Cathode for Rechargeable Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 5894-5899.	13.8	321
2	A quinone-based oligomeric lithium salt for superior Liâ€“organic batteries. Energy and Environmental Science, 2014, 7, 4077-4086.	30.8	259
3	Study of the lithium/nickel ions exchange in the layered LiNi0.42Mn0.42Co0.16O2 cathode material for lithium ion batteries: experimental and first-principles calculations. Energy and Environmental Science, 2014, 7, 1068.	30.8	195
4	Novel titanium-based O3-type NaTi_{0.5}Ni_{0.5}O₂as a cathode material for sodium ion batteries. Chemical Communications, 2014, 50, 457-459.	4.1	179
5	An Ultrastable Anode for Longâ€Life Roomâ€Temperature Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 8963-8969.	13.8	126
6	Understanding sodium-ion diffusion in layered P2 and P3 oxides via experiments and first-principles calculations: a bridge between crystal structure and electrochemical performance. NPG Asia Materials, 2016, 8, e266-e266.	7.9	101
7	A Highâ€Capacity, Lowâ€Cost Layered Sodium Manganese Oxide Material as Cathode for Sodiumâ€Ion Batteries. ChemSusChem, 2014, 7, 2115-2119.	6.8	93
8	Multielement determination of trace metals in seawater by ICP-MS with aid of down-sized chelating resin-packed minicolumn for preconcentration. Talanta, 2007, 72, 600-606.	5.5	84
9	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. Science Bulletin, 2018, 63, 376-384.	9.0	75
10	Gadolinium Anomaly in the Distributions of Rare Earth Elements Observed for Coastal Seawater and River Waters around Nagoya City. Bulletin of the Chemical Society of Japan, 2004, 77, 1835-1842.	3.2	73
11	Preparation of monolithic chelating adsorbent inside a syringe filter tip for solid phase microextraction of trace elements in natural water prior to their determination by ICP-MS. Talanta, 2010, 81, 1438-1445.	5.5	51
12	Determination of REEs in seawater by ICP-MS after on-line preconcentration using a syringe-driven chelating column. Talanta, 2009, 78, 891-895.	5.5	48
13	Multielement Determination of Trace Metals in Seawater by ICP-MS Using a Chelating Resin-Packed Minicolumn for Preconcentration. Bulletin of the Chemical Society of Japan, 2005, 78, 107-115.	3.2	44
14	Determination of rare earth elements in seawater by ICP-MS after preconcentration with a chelating resin-packed minicolumn. Journal of Alloys and Compounds, 2006, 408-412, 985-988.	5.5	42
15	Effect of Ashing Temperature on Accurate Determination of Plutonium in Soil Samples. Analytical Chemistry, 2015, 87, 5511-5515.	6.5	40
16	Determination of Fe, Cu, Ni, and Zn in seawater by ID-ICP-MS after preconcentration using a syringe-driven chelating column. Journal of Analytical Atomic Spectrometry, 2009, 24, 1179.	3.0	39
17	Determination of rare earth elements in seawater samples by inductively coupled plasma tandem quadrupole mass spectrometry after coprecipitation with magnesium hydroxide. Talanta, 2020, 209, 120536.	5.5	35
18	Multielement Determination of Trace Metals in Seawater by Inductively Coupled Plasma Mass Spectrometry after Tandem Preconcentration Using a Chelating Resin. Bulletin of the Chemical Society of Japan, 2005, 78, 659-667.	3.2	30

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19	Determination of cadmium in food samples by ID-ICP-MS with solid phase extraction for eliminating spectral-interferences. Talanta, 2012, 90, 57-62.	5.5	28
20	On-line elution of iron hydroxide coprecipitate carrier for determination of REEs in natural water by mix-gas ICP-MS. Journal of Analytical Atomic Spectrometry, 2010, 25, 364-369.	3.0	27
21	Determination of REEs in natural water by ICP-MS with the aid of an automatic column changing system. Journal of Analytical Atomic Spectrometry, 2010, 25, 1253.	3.0	27
22	Preparation and certification of Hijiki reference material, NMIJ CRM 7405-a, from the edible marine algae hijiki (Hizikia fusiforme). Analytical and Bioanalytical Chemistry, 2012, 402, 1713-1722.	3.7	27
23	Distributions of Major-to-Ultratrace Elements among the Particulate and Dissolved Fractions in Natural Water as Studied by ICP-AES and ICP-MS after Sequential Fractionation. Analytical Sciences, 2004, 20, 29-36.	1.6	26
24	Multielement Determination of Trace Metals in River Water (Certified Reference Material, JSAC 0301-1) by High Efficiency Nebulization ICP-MS after 100-fold Preconcentration with a Chelating Resin-Packed Minicolumn. Analytical Sciences, 2005, 21, 199-203.	1.6	23
25	Development of a Certified Reference Material (NMIJ CRM 7505-a) for the Determination of Trace Elements in Tea Leaves. Analytical Sciences, 2011, 27, 1149-1155.	1.6	22
26	Internal standard method coupled with a gravimetric standard addition method for elemental measurements by ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 1000.	3.0	21
27	Fractional Distributions of Trace Metals in Surface Water of Lake Biwa as Studied by Ultrafiltration and ICP-MS. Bulletin of the Chemical Society of Japan, 2005, 78, 1970-1976.	3.2	20
28	Analysis of Fluorine in Drinking Water by ICP-QMS/QMS with an Octupole Reaction Cell. Analytical Sciences, 2017, 33, 1279-1280.	1.6	18
29	Rare earth elements distribution and geochemical behaviour in the volcanic groundwaters of Mount Vulture, southern Italy. Chemical Geology, 2020, 539, 119503.	3.3	18
30	Quantitative analysis of the elements in powder samples by LA-ICP-MS with PMMA powder as the binder and Cs as the internal standard. Journal of Analytical Atomic Spectrometry, 2013, 28, 301-306.	3.0	17
31	Selective encapsulation of cesium ions using the cyclic peptide moiety of surfactin: Highly efficient removal based on an aqueous giant micellar system. Colloids and Surfaces B: Biointerfaces, 2015, 134, 59-64.	5.0	17
32	Proficiency test in Japan for the elements in tea-leaf powder. TrAC - Trends in Analytical Chemistry, 2012, 34, 152-160.	11.4	16
33	Direct determination of rare earth elements in natural water samples by inductively coupled plasma tandem quadrupole mass spectrometry with oxygen as the reaction gas for separating spectral interferences. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106100.	2.9	14
34	Development of a Certified Reference Material (NMIJ CRM 7531-a) for the Determination of Trace Cadmium and Other Elements in Brown Rice Flour. Analytical Sciences, 2012, 28, 1171-1177.	1.6	12
35	Applications and Uncertainty Estimation of Single Level Standard Addition Method ICP-MS for Elemental Analysis in Various Matrix. Analytical Sciences, 2018, 34, 701-710.	1.6	12
36	Relative Enrichment of Mo in the Radicle of Peanut Seed (Arachis hypogaea), Observed by Multi-elemental Imagining with LA-ICP-MS. Analytical Sciences, 2012, 28, 1121-1124.	1.6	11

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37	Study on carbon-induced signal enhancement in inductively coupled plasma mass spectrometry: an approach from the spatial distribution of analyte signal intensities. Journal of Analytical Atomic Spectrometry, 2019, 34, 1865-1874.	3.0	11
38	Development of an automatic pH-adjustment system for solid phase extraction prior to the determination of REEs in seawater by ICP-MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 883.	3.0	10
39	Trends and Advances in Inductively Coupled Plasma Tandem Quadruple Mass Spectrometry (ICP-QMS/QMS) With Reaction Cell. Atomic Spectroscopy, 2021, 42, .	1.2	10
40	Speciation of Human Serum Proteins Based on Trace Metal Mapping Analysis by CIM Monolithic Disk Column HPLC/ICP-MS in Complement with Off-Line MALDI-TOF-MS Analysis. Bulletin of the Chemical Society of Japan, 2007, 80, 503-506.	3.2	9
41	Calcium tungstate coprecipitation for removal of Sr interference with determination of Rb by ID-ICP-MS. Talanta, 2008, 77, 897-900.	5.5	9
42	Development of a Certified Reference Material (NMIJ CRM 7512-a) for the Determination of Trace Elements in Milk Powder. Analytical Sciences, 2013, 29, 247-253.	1.6	9
43	Potential Anthropogenic Pollution by Eu as well as Gd Observed in River Water around Urban Area. Chemistry Letters, 2017, 46, 1327-1329.	1.3	9
44	Development of a highly precise ID-ICP-SFMS method for analysis of low concentrations of lead in rice flour reference materials. Analytical and Bioanalytical Chemistry, 2008, 391, 2055-2060.	3.7	8
45	Studies on Isotope Ratio Measurement of Cl by Inductively Coupled Plasma Triple-quad Mass Spectrometry. Analytical Sciences, 2017, 33, 375-380.	1.6	8
46	Determination of 56 Elements in Lake Baikal Water by High-Resolution ICP-MS with the Aid of a Tandem Preconcentration Method. Analytical Sciences, 2008, 24, 1513-1517.	1.6	7
47	Identification of possible technical problems in determination of the major inorganic constituents of brown-rice flour by evaluating proficiency test results. Analytical and Bioanalytical Chemistry, 2013, 405, 8347-8362.	3.7	7
48	Measurement of strontium isotope ratio in nitric acid extract of peanut testa by ICP-Q-MS after removal of Rb by extraction with pure water. Talanta, 2014, 119, 596-600.	5.5	7
49	Assessment of technical problems in the analysis of inorganic elements in squid through proficiency testing. TrAC - Trends in Analytical Chemistry, 2016, 76, 216-226.	11.4	7
50	Potential Anthropogenic Pollution of High-technology Metals with a Focus on Rare Earth Elements in Environmental Water. Analytical Sciences, 2021, 37, 131-143.	1.6	7
51	Chemical Speciation of Arsenic Species in Human Blood Serum by Liquid Chromatography Using a Phosphatidylcholine-Coated ODS Column with Detection by ICP-MS. Bulletin of the Chemical Society of Japan, 2007, 80, 498-502.	3.2	6
52	Distribution of the Elements in Cotyledon, Embryonic Axis, and Testa of Peanut Seeds Obtained by ICP-MS with Microwave Acid Digestion. Analytical Sciences, 2013, 29, 1027-1033.	1.6	6
53	Determination of Sulfur in Bioethanol Certified Reference Material. Journal of the Japan Petroleum Institute, 2013, 56, 171-175.	0.6	6
54	Lead Isotopic Compositions of Atmospheric Suspended Particulate Matter in Nagoya City as Measured by HR-ICP-MS. Journal of Nuclear Science and Technology, 2006, 43, 474-478.	1.3	5

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55	Quantitative Analysis of Trace Elements in Silicate Glass Sample by LA-ICP-QMS/QMS with an ORC: Silicon as the Matrix of Calibrating Solutions and the Internal Standard for Measurement. Analytical Sciences, 2016, 32, 1237-1243.	1.6	5
56	Solidâ€“liquid phase epitaxial growth of Li₄Ti₅O₁₂ thin film. Applied Physics Express, 2016, 9, 125501.	2.4	5
57	Direct Determination of Cadmium in Seawater by Standard Addition ICP-QMS/QMS with an ORC. Analytical Sciences, 2016, 32, 1301-1305.	1.6	5
58	Accurate Characterization of Sulfur in Biodiesel Fuel Certified Reference Material. Journal of the Japan Petroleum Institute, 2016, 59, 317-321.	0.6	5
59	Simultaneous Direct Determinations of Na, Mg, K, Ca, P, and S in Biodiesel Fuel by ICP-QMS/QMS after Xylene Dilution: Development and Application of a High-throughput Method for a Homogeneity Assessment of a Candidate Reference Material. Analytical Sciences, 2017, 33, 209-215.	1.6	5
60	Development of a Certified Reference Material (NMIJ CRM 7203-a) for Elemental Analysis of Tap Water. Analytical Sciences, 2017, 33, 403-407.	1.6	5
61	Pseudo isotope dilution (PID) as an approach for correcting barium-related spectral interferences on the measurement of europium by inductively coupled plasma mass spectrometry (ICP-MS). Analytica Chimica Acta, 2021, 1180, 338854.	5.4	5
62	Determination of Rare Earth Elements by Inductively Coupled Plasmaâ€“Tandem Quadrupole Mass Spectrometry With Nitrous Oxide as the Reaction Gas. Frontiers in Chemistry, 0, 10, .	3.6	5
63	Partitionings of Major-to-Ultratrace Elements in Bittern as Determined by ICP-AES and ICP-MS with Aid of Chelating Resin Preconcentration. Bulletin of the Chemical Society of Japan, 2006, 79, 588-594.	3.2	4
64	An in-syringe La-coprecipitation Method for the Preconcentration of Oxo-anion Forming Elements in Seawater Prior to an ICP-MS Measurement. Analytical Sciences, 2008, 24, 1189-1192.	1.6	4
65	Characterization of a certified reference material (NMIJ CRM 8301-a) for determination of Cu in bio-ethanol. Fuel, 2013, 103, 736-741.	6.4	4
66	Final report on APMP.QM-S5: Essential and toxic elements in seafood. Metrologia, 2013, 50, 08004-08004.	1.2	4
67	Experimental Confirmation of SrF(CH₃F)₀₋₄⁺ and SrF(H₂O)(CH₃F)₀₋₃⁺ Cluster Ions Generated in the Reaction-cell of ICP-QMS/QMS. Analytical Sciences, 2017, 33, 879-881.	1.6	4
68	Quantification of elemental area densities in multiple metal layers (Au/Ni/Cu) on a Cr-coated quartz glass substrate for certification of NMIJ CRM 5208-a. Analytical and Bioanalytical Chemistry, 2018, 410, 2849-2857.	3.7	4
69	Classification of Chemical Elements in the Reaction Cell of ICP-MS Based on the Affinities with Sulfur, Oxygen, and Fluorine. Chemistry Letters, 2018, 47, 740-743.	1.3	4
70	Temporal characterization of fundamental plasma parameters in pulsed liquid electrode plasma (LEP) optical emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106089.	2.9	4
71	Report of the CCQM-K124: trace elements and chromium speciation in drinking waterâ€”part A: trace elements in drinking water, part B: chromium speciation in drinking water. Metrologia, 2017, 54, 08012-08012.	1.2	4
72	Solid Phase Extraction Using a Sulfoxide Adsorbent for Preconcentration and Separation of Hg(II) in Natural Water Followed by ICP-MS Measurements. Analytical Sciences, 2012, 28, 417-417.	1.6	3

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73	Multi-Element Profiling Analyses of Symbiotic Zooxanthellae and Soft Tissues in a Giant Clam (Tridacna crocea) Living in the Coral Reefs and Their Intake Process of Zn and Cd. Bulletin of the Chemical Society of Japan, 2017, 90, 520-526.	3.2	3
74	Quantitative Analysis of Major and Minor Elements in Lead-free Solder Chip by LA-ICP-MS. Analytical Sciences, 2018, 34, 693-699.	1.6	3
75	Elemental characteristics and biogeochemical cycles of trace metals in coastal seawater around coral reefs elucidated by multi-element profiling analyses. Estuarine, Coastal and Shelf Science, 2020, 240, 106779.	2.1	3
76	Lead Isotopic Compositions of Atmospheric Suspended Particulate Matter in Nagoya City as Measured by HR-ICP-MS. Journal of Nuclear Science and Technology, 2006, 43, 474-478.	1.3	3
77	Development of an Automatic pH Adjustment Instrument for the Preparation of Analytical Samples Prior to Solid Phase Extraction. Analytical Sciences, 2020, 36, 621-625.	1.6	3
78	Separation Characteristics of a Phosphatidylcholine-Coated ODS Column for Direct Sample Injection Analysis of Biological Fluid Samples. Bulletin of the Chemical Society of Japan, 2007, 80, 329-334.	3.2	2
79	Vertical Distribution of Lead in Lake Baikal Water Measured by ID-ICP-MS. Journal of Nuclear Science and Technology, 2008, 45, 65-68.	1.3	2
80	Determination and Size-Fractional Distribution of the Elements in Garlic. Analytical Sciences, 2009, 25, 137-140.	1.6	2
81	Final report on CCQM-K89: Trace and essential elements inHerba Ecliptae. Metrologia, 2013, 50, 08003-08003.	1.2	2
82	Determination of Rubidium by ID-ICP-QMS/QMS with Fluoromethane as the Reaction Cell Gas to Separate Spectral Interference from Strontium. Analytical Sciences, 2018, 34, 681-685.	1.6	2
83	Automatic Preparation of Calibrating Solutions for Quantitative Analysis by ICP-MS. Analytical Sciences, 2019, 35, 1295-1298.	1.6	2
84	Calcium fluoride as a dominating matrix for quantitative analysis by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS): A feasibility study. Analytica Chimica Acta, 2020, 1129, 24-30.	5.4	2
85	Report of the CCQM-K123: trace elements in biodiesel fuel. Metrologia, 2017, 54, 08008-08008.	1.2	2
86	Measurement of heavy metals and organo-tin in leather powder. Metrologia, 2018, 55, 08020.	1.2	2
87	Single-cell Analysis Based on ICP-MS. Analytical Sciences, 2021, 37, 1653-1654.	1.6	2
88	Final report on key comparison CCQM-K100: Analysis of copper in ethanol. Metrologia, 2014, 51, 08013-08013.	1.2	1
89	Confirmation of⁴⁰Ar⁺related product ions in the octopole reaction cell of an ICP-QMS/QMS with¹⁸O₂enriched oxygen as the reaction cell gas. Journal of Analytical Atomic Spectrometry, 2017, 32, 816-821.	3.0	1
90	Electrospray ICP-MS and SPMS for the In Situ Production of Nanoparticles and Simultaneous On-line Measurements of Its Elemental Signals and Particle Sizes. Chemistry Letters, 2017, 46, 569-572.	1.3	1

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91	Cold Plasma: Effective Control of Argon Emission Line Interferences on the Measurement of Rubidium by Axial-view ICP-OES. Chemistry Letters, 2017, 46, 1751-1753.	1.3	1
92	Sensitive Determination of Rb by Cool Plasma ICP-OES. Bunseki Kagaku, 2018, 67, 19-25.	0.2	1
93	Development of a Certified Reference Material (NMIJ CRM 7202-c) for Trace Elemental Analysis of River Water. Bunseki Kagaku, 2020, 69, 11-23.	0.2	1
94	AN IN-SYRINGE La CO-PRECIPITATION METHOD FOR PRE-CONCENTRATION OF OXO-ANIONS FORMING ELEMENTS IN SEAWATER FOLLOWED BY ICP-MS MEASUREMENT. Jurnal Riset Kimia, 2007, 1, 8.	0.1	1
95	Application of syringe-driven chelate-minicolumn in determination of trace elements in water samples. Diqiu Huaxue, 2006, 25, 196-196.	0.5	0
96	APMP supplementary comparison APMP.QM-S3: Cd in rice. Metrologia, 2011, 48, 08014-08014.	1.2	0
97	Determination of Sulfur in Bio-Samples by ICP-QMS/QMS with an ORC. Journal of Analytical & Bioanalytical Techniques, 2015, 6, .	0.6	0
98	Study on the Formation Process of Oxide Ion and the Influence of Carbon Matrix in Inductively Coupled Plasma Mass Spectrometry Using 18O-Labeled Arsenous Acid. Bulletin of the Chemical Society of Japan, 2021, 94, 1637-1644.	3.2	0
99	MULTIELEMENT ANALYSIS OF LAKE BAIKAL WATER BY HR-ICP-MS. Jurnal Riset Kimia, 2008, 2, 1.	0.1	0
100	Development and Co-Validation of a Certified Reference Material (NMIJ CRM 7204-A) for the Analysis of Trace Elements in Seawater Sample. Bulletin of the Chemical Society of Japan, 2022, 95, 208-215.	3.2	0