

Qiuquan Wang

List of Publications by Year in descending order

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93
papers

2,564
citations

147801

31
h-index

233421

45
g-index

103
all docs

103
docs citations

103
times ranked

2468
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosemiconductor-Based Photocatalytic Vapor Generation Systems for Subsequent Selenium Determination and Speciation with Atomic Fluorescence Spectrometry and Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 2974-2981.	6.5	92
2	Mechanisms of chemical generation of volatile hydrides for trace element determination (IUPAC) Tj ETQq0 0 0 rgBT ₁ /Overlock _{10 Tf 50 7}	1.9	90
3	Online pre-reduction of selenium(vi) with a newly designed UV/TiO ₂ photocatalysis reduction device. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 715.	3.0	85
4	Lanthanide-Coded Protease-Specific Peptide-Nanoparticle Probes for a Label-Free Multiplex Protease Assay Using Element Mass Spectrometry: A Proof-of-Concept Study. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5130-5133.	13.8	84
5	Vapour generation at a UV/TiO ₂ photocatalysis reaction device for determination and speciation of mercury by AFS and HPLC-AFS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 330.	3.0	80
6	ICP-MS-Based Multiplex and Ultrasensitive Assay of Viruses with Lanthanide-Coded Biospecific Tagging and Amplification Strategies. <i>Analytical Chemistry</i> , 2013, 85, 9428-9432.	6.5	71
7	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.3	65
8	On-line preconcentration with a novel alkyl phosphinic acid extraction resin coupled with inductively coupled plasma mass spectrometry for determination of trace rare earth elements in seawater. <i>Talanta</i> , 2007, 72, 1248-1254.	5.5	64
9	Absolute Quantification of Intact Proteins via 1,4,7,10-Tetraazacyclododecane-1,4,7-trisacetic acid- ¹⁰ -Maleimidoethylacetamide-Europium Labeling and HPLC Coupled with Species-Unspecific Isotope Dilution ICPMS. <i>Analytical Chemistry</i> , 2010, 82, 1261-1269.	6.5	64
10	Enhancing the performance of thin-film nanocomposite nanofiltration membranes using MAH-modified GO nanosheets. <i>RSC Advances</i> , 2017, 7, 54898-54910.	3.6	62
11	A novel double-modified strategy to enhance the performance of thin-film nanocomposite nanofiltration membranes: Incorporating functionalized graphenes into supporting and selective layers. <i>Chemical Engineering Journal</i> , 2019, 368, 186-201.	12.7	60
12	Different alkyl dimethacrylate mediated stearyl methacrylate monoliths for improving separation efficiency of typical alkylbenzenes and proteins. <i>Journal of Chromatography A</i> , 2009, 1216, 3098-3106.	3.7	58
13	Europium-Labeled Activity-Based Probe through Click Chemistry: Absolute Serine Protease Quantification Using ¹⁵³ Eu Isotope Dilution ICP/MS. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3358-3363.	13.8	58
14	Quantification of selenium-tagged proteins in human plasma using species-unspecific isotope dilution ICP-DRC-qMS coupled on-line with anion exchange chromatography. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1545.	3.0	57
15	Subcellular distribution of rare earth elements and characterization of their binding species in a newly discovered hyperaccumulator <i>Pronephrium simplex</i> . <i>Talanta</i> , 2006, 70, 26-31.	5.5	55
16	Integrin-Targeted Trifunctional Probe for Cancer Cells: A "Seeing and Counting" Approach. <i>Analytical Chemistry</i> , 2012, 84, 8946-8951.	6.5	54
17	Electrochemical vapor generation of selenium species after online photolysis and reduction by UV-irradiation under nano TiO ₂ photocatalysis and its application to selenium speciation by HPLC coupled with atomic fluorescence spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 366-372.	3.7	53
18	A new vapor generation system for mercury species based on the UV irradiation of mercaptoethanol used in the determination of total and methyl mercury in environmental and biological samples by atomic fluorescence spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 831-836.	3.7	52

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19	Dynamic Labeling Strategy with ²⁰⁴ Hg-Isotopic Methylmercurithiosalicylate for Absolute Peptide and Protein Quantification. <i>Analytical Chemistry</i> , 2010, 82, 1616-1620.	6.5	46
20	In vivo phytochelatins and Hg ²⁺ phytochelatin complexes in Hg-stressed <i>Brassica chinensis</i> L.. <i>Metallomics</i> , 2009, 1, 101-106.	2.4	43
21	Counting sulfhydryls and disulfide bonds in peptides and proteins using mercurial ions as an MS-tag. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1108-1113.	2.8	41
22	Alternative Thermodiffusion Interface for Simultaneous Speciation of Organic and Inorganic Lead and Mercury Species by Capillary GC-ICPMS Using Tri-n-propyl-lead Chloride as an Internal Standard. <i>Analytical Chemistry</i> , 2008, 80, 6104-6109.	6.5	41
23	Free cadmium ions released from CdTe-based nanoparticles and their cytotoxicity on <i>Phaeodactylum tricornutum</i> . <i>Metallomics</i> , 2010, 2, 469.	2.4	41
24	Multivalent Duplexed-Aptamer Networks Regulated a CRISPR-Cas12a System for Circulating Tumor Cell Detection. <i>Analytical Chemistry</i> , 2021, 93, 12921-12929.	6.5	40
25	Octyl-type monolithic columns of 530 μ m i.d. for capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1062, 183-188.	3.7	39
26	On-line pre-reduction of Se(VI) by thiourea for selenium speciation by hydride generation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 803-809.	2.9	38
27	SEC-ICP-MS and ESI-MS/MS for analyzing in vitro and in vivo Cd-phytochelatin complexes in a Cd-hyperaccumulator <i>Brassica chinensis</i> . <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1403.	3.0	38
28	Preparation and characterization of novel alkali-resistant nanofiltration membranes with enhanced permeation and antifouling properties: the effects of functionalized graphene nanosheets. <i>RSC Advances</i> , 2017, 7, 18755-18764.	3.6	38
29	Counting and Recognizing Single Bacterial Cells by a Lanthanide-Encoding Inductively Coupled Plasma Mass Spectrometric Approach. <i>Analytical Chemistry</i> , 2019, 91, 8341-8349.	6.5	37
30	Historical Records of Airborne Polycyclic Aromatic Hydrocarbons by Analyzing Dated Corks of the Bark Pocket in a Longpetiole Beech Tree. <i>Environmental Science & Technology</i> , 2004, 38, 4739-4744.	10.0	36
31	Detection and quantification of proteins and cells by use of elemental mass spectrometry: progress and challenges. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5663-5670.	3.7	32
32	Strategy for absolute quantification of proteins: CH ₃ Hg ⁺ labeling integrated molecular and elemental mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1184.	3.0	28
33	Determination and speciation of Hg using HPLC-AFS by atomization of this metal on a UV/nano-ZrO ₂ /HCOOH photocatalytic reduction unit. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 916-921.	3.0	27
34	Preliminary study of the enrichment and fractionation of REEs in a newly discovered REE hyperaccumulator <i>Pronephrium simplex</i> by SEC-ICP-MS and MALDI-TOF/ESI-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 751.	3.0	26
35	Silica-based polypeptide-monolithic stationary phase for hydrophilic chromatography and chiral separation. <i>Journal of Chromatography A</i> , 2016, 1446, 125-133.	3.7	26
36	Speciation of rare earth elements in soil by sequential extraction then HPLC coupled with visible and ICP-MS detection. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 1041-1047.	1.5	25

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37	EphA2 enhances the proliferation and invasion ability of LNCaP prostate cancer cells. <i>Oncology Letters</i> , 2014, 8, 41-46.	1.8	25
38	Performance of single particle fritted capillary columns in electrochromatography. <i>Journal of Chromatography A</i> , 2013, 1272, 136-140.	3.7	24
39	Identification of AtOPT4 as a Plant Glutathione Transporter. <i>Molecular Plant</i> , 2016, 9, 481-484.	8.3	24
40	Studies of biouptake and transformation of mercury by a typical unicellular diatom <i>Phaeodactylum tricornutum</i> . <i>Science Bulletin</i> , 2013, 58, 256-265.	1.7	23
41	Metabolism-Based Click-Mediated Platform for Specific Imaging and Quantification of Cell Surface Sialic Acids. <i>Analytical Chemistry</i> , 2017, 89, 538-543.	6.5	23
42	Preliminary Study of Existing Species of Lanthanum in the Spinach Leaves after Being Cultivated with a Culture Solution Containing Lanthanum.. <i>Analytical Sciences</i> , 2001, 17, 789-791.	1.6	22
43	Towards high peak capacity separations in normal pressure nanoflow liquid chromatography using meter long packed capillary columns. <i>Analytica Chimica Acta</i> , 2014, 852, 267-273.	5.4	22
44	Near-Infrared Neodymium Tag for Quantifying Targeted Biomarker and Counting Its Host Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2017, 89, 9239-9246.	6.5	22
45	Direct Infusion ICP-MS of Lined-up Single-Cell Using an Oil-Free Passive Microfluidic System. <i>Analytical Chemistry</i> , 2020, 92, 5286-5293.	6.5	22
46	Two dimensional separations of human urinary protein digest using a droplet-interfaced platform. <i>Analytica Chimica Acta</i> , 2015, 863, 86-94.	5.4	19
47	Synergistic defensive mechanism of phytochelatin and antioxidative enzymes in <i>Brassica chinensis</i> L. against Cd stress. <i>Science Bulletin</i> , 2008, 53, 1503-1511.	9.0	18
48	A "plug-and-use" approach towards facile fabrication of capillary columns for high performance nanoflow liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1325, 109-114.	3.7	18
49	An ongoing path of element-labeling/tagging strategies toward quantitative bioanalysis using ICP-MS. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 117-128.	6.7	18
50	Orderly MOF-Assembled Hybrid Monolithic Stationary Phases for Nano-Flow HPLC. <i>Analytical Chemistry</i> , 2020, 92, 15757-15765.	6.5	18
51	A dual-labelling strategy for integrated ICPMS and LIF for the determination of peptides. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1175.	3.0	17
52	Click Chemistry Mediated Eu-Tagging: Activity-Based Specific Quantification and Simultaneous Activity Evaluation of CYP3A4 Using ¹⁵³ Eu Species-Unspecific Isotope Dilution Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 3688-3692.	6.5	17
53	Changes in arsenate bioaccumulation, subcellular distribution, depuration, and toxicity in <i>Artemia salina</i> nauplii in the presence of titanium dioxide nanoparticles. <i>Environmental Science: Nano</i> , 2017, 4, 1365-1376.	4.3	17
54	Complex role of titanium dioxide nanoparticles in the trophic transfer of arsenic from <i>Nannochloropsis maritima</i> to <i>Artemia salina</i> nauplii. <i>Aquatic Toxicology</i> , 2018, 198, 231-239.	4.0	17

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55	DNAzyme-Au nanoprobe coupled with graphene-oxide-loaded hybridization chain reaction signal amplification for fluorometric determination of alkaline phosphatase. <i>Mikrochimica Acta</i> , 2021, 188, 7.	5.0	17
56	Resurgence of Sandstorms Complicates China's Air Pollution Situation. <i>Environmental Science & Technology</i> , 2021, 55, 11467-11469.	10.0	17
57	Graphene oxide antagonizes the toxic response to arsenic via activation of protective autophagy and suppression of the arsenic-binding protein LEC-1 in <i>Caenorhabditis elegans</i> . <i>Environmental Science: Nano</i> , 2018, 5, 1711-1728.	4.3	16
58	Viruslike Element-Tagged Nanoparticle Inductively Coupled Plasma Mass Spectrometry Signal Multiplier: Membrane Biomarker Mediated Cell Counting. <i>Analytical Chemistry</i> , 2019, 91, 4948-4952.	6.5	16
59	Towards a high peak capacity of 130 using nanoflow hydrophilic interaction liquid chromatography. <i>Analytica Chimica Acta</i> , 2019, 1062, 147-155.	5.4	16
60	Separation of Zirconium(IV) and Hafnium(IV) by Extraction Chromatography Using Di(1-methylheptyl) Methylphosphonate as a Stationary Phase.. <i>Analytical Sciences</i> , 1997, 13, 27-31.	1.6	15
61	The determination of low-molecular-mass thiols with 4-(hydroxymercuric)benzoic acid as a tag using HPLC coupled online with UV/HCOOH-induced cold vapor generation AFS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3428-3433.	2.3	15
62	One-pot preparation of basic amino acid-silica hybrid monolithic column for capillary electrochromatography. <i>Journal of Separation Science</i> , 2011, 34, 2314-2322.	2.5	15
63	Extractive Separation of Aluminum(III), Gallium(III) and Indium(III) Using Bis(1,1,3,3-tetramethylbutyl)phosphinic Acid and Its Sulfur Analogues. <i>Analytical Sciences</i> , 1996, 12, 931-934.	1.6	14
64	Chemical interactions of mercury species and some transition and noble metals towards metallothionein (Zn7MT-2) evaluated using SEC/ICP-MS, RP-HPLC/ESI-MS and MALDI-TOF-MS. <i>Metallomics</i> , 2013, 5, 855.	2.4	13
65	A chemical hub for absolute quantification of a targeted protein: orthogonal integration of elemental and molecular mass spectrometry. <i>Chemical Communications</i> , 2014, 50, 6578-6581.	4.1	13
66	Inhibitory Covalent Labeling and Clickable-Eu-Tagging-Based ICPMS: Measurement of pH-Dependent Absolute Activities of the Cathepsins in Hepatocyte Lysosomes. <i>Analytical Chemistry</i> , 2019, 91, 7032-7038.	6.5	13
67	Quantification and visualization of glutathione S-transferase omega 1 in cells using inductively coupled plasma mass spectrometry (ICP-MS) and fluorescence microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2373-2381.	3.7	12
68	Dual polyhedral oligomeric silsesquioxanes polymerization approach to mutually-mediated separation mechanisms of hybrid monolithic stationary and mobile phases towards small molecules. <i>Journal of Chromatography A</i> , 2018, 1533, 136-142.	3.7	11
69	Toward rapid preparation of capillary columns for electrochromatography use. <i>Electrophoresis</i> , 2014, 35, 836-839.	2.4	10
70	Preparation and characterization of asymmetric polyethersulfone nanofiltration membranes: The effects of polyvinylpyrrolidone molecular weights and concentrations. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	10
71	Extraction Chromatographie Behaviors of Zirconium and Hafnium Using Sulfoxides as Stationary Phases. <i>Analytical Sciences</i> , 1995, 11, 909-913.	1.6	9
72	Selective determination of nitrite/nitrate based on photo-induced redox activity of titanium dioxide. <i>Journal of Separation Science</i> , 2018, 41, 4075-4082.	2.5	9

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73	Screening Platform Based on Inductively Coupled Plasma Mass Spectrometry for Î²-Site Amyloid Protein Cleaving Enzyme 1 (BACE1) Inhibitors. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1093-1099.	3.5	9
74	A Newly Identified Passive Hyperaccumulator <i>Eucalyptus grandis</i> Å— <i>E. urophylla</i> under Manganese Stress. <i>PLoS ONE</i> , 2015, 10, e0136606.	2.5	9
75	ICPMS-Based Specific Quantification of Phosphotyrosine: A Gallium-Tagging and Tyrosine-Phosphatase Mediated Strategy. <i>Analytical Chemistry</i> , 2016, 88, 9890-9896.	6.5	8
76	Evaluation of cadmium species lability using ion-pair reversed phase HPLC coupled on-line with inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2011, 84, 287-292.	5.5	7
77	Fabrication and investigation of electrochromatographic columns with a simplex configuration. <i>Journal of Chromatography A</i> , 2014, 1349, 90-95.	3.7	7
78	Extraction Chromatographic Behavior of Yttrium and Lanthanides in the Petroleum Sulfoxide-Ammonium Thiocyanate System.. <i>Analytical Sciences</i> , 1996, 12, 231-236.	1.6	6
79	Chromatographic behavior of cadmium in an ion-pair reversed-phase micro HPLC system and its application to the determination of bio-available cadmium in soil samples. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 923-927.	3.7	6
80	A Way to Probe the Microenvironment of Free Sulfhydryls in Intact Proteins with a Series of Monofunctional Organic Mercurials. <i>Chemistry - A European Journal</i> , 2012, 18, 13989-13993.	3.3	6
81	Fluorescent and mass spectrometric evaluation of the phagocytic internalization of a CD47-peptide modified drug-nanocarrier. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4193-4202.	3.7	6
82	Bioaccumulation and transformation of cadmium by <i>Phaeodactylum tricornutum</i> . <i>Science in China Series B: Chemistry</i> , 2009, 52, 2373-2380.	0.8	5
83	Mutual Separation of Rare Earth Elements by Extraction Chromatography Using Bis(1,1,3,3-tetramethylbutyl)phosphinic Acid as a Stationary Phase.. <i>Analytical Sciences</i> , 1997, 13, 153-156.	1.6	4
84	Evaluation of Dissolved Species of Lanthanum in the Solutions Containing Different Amino Acids by Cation-Exchange Chromatography Coupled with Electrospray Ionization Mass Spectrometry.. <i>Analytical Sciences</i> , 2000, 16, 241-244.	1.6	4
85	Determination of Cadmium in Seawater by Vapor Generation Atomic Fluorescence Spectrometry After Online Preconcentration with a Novel Alkyl Phosphinic Acid Resin. <i>Spectroscopy Letters</i> , 2007, 40, 547-557.	1.0	4
86	Step-by-Step Design and Synthesis of Au@SiO ₂ @Phenylazathiacrown for SERS-Based Specific Quantification of Inorganic Mercury. <i>ChemistryOpen</i> , 2017, 6, 201-205.	1.9	4
87	Electrochromatographic behavior of core-shell particles: A comparison study. <i>Analytica Chimica Acta</i> , 2018, 1033, 205-212.	5.4	4
88	Single-cell fucosylation breakdown: Switching fucose to europium. <i>IScience</i> , 2021, 24, 102397.	4.1	4
89	A comparison study of in-column and on-column detection for electrochromatography. <i>Journal of Chromatography A</i> , 2014, 1362, 225-230.	3.7	3
90	Chemical labeling strategies for recognition and determination of protein and peptide. <i>Scientia Sinica Chimica</i> , 2011, 41, 663-677.	0.4	2

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91	A Biochemical Lanthanide-Encoding Approach Enables Quantitative Monitoring of the Bacterial Response to Vancomycin Treatment. <i>Biochemistry</i> , 2020, 59, 3523-3528.	2.5	0
92	Quantification of active selenols in cells: a selenol-specific recognition europium-switched signal-amplification ICP-MS approach. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 257-263.	3.7	0
93	Promising Early-Career (Bio)analytical Researchers. <i>Analytical and Bioanalytical Chemistry</i> , 0, , .	3.7	0