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	Quantification of active selenols in cells: a selenol-specific recognition europium-switched signal-amplification ICP-MS approach. Analytical and Bioanalytical Chemistry, 2022, 414, 257-263.	3.7	0
2	DNAzyme-Au nanoprobe coupled with graphene-oxideâ€“loaded hybridization chain reaction signal amplification for fluorometric determination of alkaline phosphatase. Mikrochimica Acta, 2021, 188, 7.	5.0	17
3	Screening Platform Based on Inductively Coupled Plasma Mass Spectrometry for Î²-Site Amyloid Protein Cleaving Enzyme 1 (BACE1) Inhibitors. ACS Chemical Neuroscience, 2021, 12, 1093-1099.	3.5	9
4	Single-cell fucosylation breakdown: Switching fucose to europium. IScience, 2021, 24, 102397.	4.1	4
5	Resurgence of Sandstorms Complicates Chinaâ€™s Air Pollution Situation. Environmental Science & Technology, 2021, 55, 11467-11469.	10.0	17
6	Multivalent Duplexed-Aptamer Networks Regulated a CRISPR-Cas12a System for Circulating Tumor Cell Detection. Analytical Chemistry, 2021, 93, 12921-12929.	6.5	40
7	Orderly MOF-Assembled Hybrid Monolithic Stationary Phases for Nano-Flow HPLC. Analytical Chemistry, 2020, 92, 15757-15765.	6.5	18
8	A Biochemical Lanthanide-Encoding Approach Enables Quantitative Monitoring of the Bacterial Response to Vancomycin Treatment. Biochemistry, 2020, 59, 3523-3528.	2.5	0
9	Direct Infusion ICP-qMS of Lined-up Single-Cell Using an Oil-Free Passive Microfluidic System. Analytical Chemistry, 2020, 92, 5286-5293.	6.5	22
10	Counting and Recognizing Single Bacterial Cells by a Lanthanide-Encoding Inductively Coupled Plasma Mass Spectrometric Approach. Analytical Chemistry, 2019, 91, 8341-8349.	6.5	37
11	Inhibitory Covalent Labeling and Clickable-Eu-Tagging-Based ICPMS: Measurement of pH-Dependent Absolute Activities of the Cathepsins in Hepatocyte Lysosomes. Analytical Chemistry, 2019, 91, 7032-7038.	6.5	13
12	Fluorescent and mass spectrometric evaluation of the phagocytic internalization of a CD47-peptide modified drug-nanocarrier. Analytical and Bioanalytical Chemistry, 2019, 411, 4193-4202.	3.7	6
13	In situremediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	4.3	65
14	Viruslike Element-Tagged Nanoparticle Inductively Coupled Plasma Mass Spectrometry Signal Multiplier: Membrane Biomarker Mediated Cell Counting. Analytical Chemistry, 2019, 91, 4948-4952.	6.5	16
15	A novel double-modified strategy to enhance the performance of thin-film nanocomposite nanofiltration membranes: Incorporating functionalized graphenes into supporting and selective layers. Chemical Engineering Journal, 2019, 368, 186-201.	12.7	60
16	Towards a high peak capacity of 130 using nanoflow hydrophilic interaction liquid chromatography. Analytica Chimica Acta, 2019, 1062, 147-155.	5.4	16
17	Dual polyhedral oligomeric silsesquioxanes polymerization approach to mutually-mediated separation mechanisms of hybrid monolithic stationary and mobile phases towards small molecules. Journal of Chromatography A, 2018, 1533, 136-142.	3.7	11
18	Complex role of titanium dioxide nanoparticles in the trophic transfer of arsenic from Nannochloropsis maritima to Artemia salina nauplii. Aquatic Toxicology, 2018, 198, 231-239.	4.0	17

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19	Selective determination of nitrite/nitrate based on photoâ€induced redox activity of titanium dioxide. Journal of Separation Science, 2018, 41, 4075-4082.	2.5	9
20	Graphene oxide antagonizes the toxic response to arsenicviaactivation of protective autophagy and suppression of the arsenic-binding protein LEC-1 inCaenorhabditis elegans. Environmental Science: Nano, 2018, 5, 1711-1728.	4.3	16
21	Electrochromatographic behavior of core-shell particles: AÂcomparison study. Analytica Chimica Acta, 2018, 1033, 205-212.	5.4	4
22	Stepâ€byâ€Step Design and Synthesis of Au@SiO₂@Phenylâ€azathiacrown for SERSâ€Based Specific Quantification of Inorganic Mercury. ChemistryOpen, 2017, 6, 201-205.	1.9	4
23	Changes in arsenate bioaccumulation, subcellular distribution, depuration, and toxicity in Artemia salina nauplii in the presence of titanium dioxide nanoparticles. Environmental Science: Nano, 2017, 4, 1365-1376.	4.3	17
24	Preparation and characterization of novel alkali-resistant nanofiltration membranes with enhanced permeation and antifouling properties: the effects of functionalized graphene nanosheets. RSC Advances, 2017, 7, 18755-18764.	3.6	38
25	Metabolism-Based Click-Mediated Platform for Specific Imaging and Quantification of Cell Surface Sialic Acids. Analytical Chemistry, 2017, 89, 538-543.	6.5	23
26	Near-Infrared Neodymium Tag for Quantifying Targeted Biomarker and Counting Its Host Circulating Tumor Cells. Analytical Chemistry, 2017, 89, 9239-9246.	6.5	22
27	Enhancing the performance of thin-film nanocomposite nanofiltration membranes using MAH-modified GO nanosheets. RSC Advances, 2017, 7, 54898-54910.	3.6	62
28	Preparation and characterization of asymmetric polyethersulfone nanofiltration membranes: The effects of polyvinylpyrrolidone molecular weights and concentrations. Journal of Applied Polymer Science, 2016, 133, .	2.6	10
29	Silica-based polypeptide-monolithic stationary phase for hydrophilic chromatography and chiral separation. Journal of Chromatography A, 2016, 1446, 125-133.	3.7	26
30	ICPMS-Based Specific Quantification of Phosphotyrosine: A Gallium-Tagging and Tyrosine-Phosphatase Mediated Strategy. Analytical Chemistry, 2016, 88, 9890-9896.	6.5	8
31	An ongoing path of element-labeling/tagging strategies toward quantitative bioanalysis using ICP-MS. Applied Spectroscopy Reviews, 2016, 51, 117-128.	6.7	18
32	Identification of AtOPT4 as a Plant Glutathione Transporter. Molecular Plant, 2016, 9, 481-484.	8.3	24
33	Quantification and visualization of glutathione S-transferase omega 1 in cells using inductively coupled plasma mass spectrometry (ICP-MS) and fluorescence microscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 2373-2381.	3.7	12
34	Determination and speciation of Hg using HPLC-AFS by atomization of this metal on a UV/nano-ZrO₂/HCOOH photocatalytic reduction unit. Journal of Analytical Atomic Spectrometry, 2015, 30, 916-921.	3.0	27
35	Two dimensional separations of human urinary protein digest using a droplet-interfaced platform. Analytica Chimica Acta, 2015, 863, 86-94.	5.4	19
36	A Newly Identified Passive Hyperaccumulator Eucalyptus grandis Ã— E. urophylla under Manganese Stress. PLoS ONE, 2015, 10, e0136606.	2.5	9

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37	EphA2 enhances the proliferation and invasion ability of LNCaP prostate cancer cells. Oncology Letters, 2014, 8, 41-46.	1.8	25
38	Toward rapid preparation of capillary columns for electrochromatography use. Electrophoresis, 2014, 35, 836-839.	2.4	10
39	Fabrication and investigation of electrochromatographic columns with a simplex configuration. Journal of Chromatography A, 2014, 1349, 90-95.	3.7	7
40	Towards high peak capacity separations in normal pressure nanoflow liquid chromatography using meter long packed capillary columns. Analytica Chimica Acta, 2014, 852, 267-273.	5.4	22
41	A chemical â€œhubâ€•for absolute quantification of a targeted protein: orthogonal integration of elemental and molecular mass spectrometry. Chemical Communications, 2014, 50, 6578-6581.	4.1	13
42	Click Chemistry Mediated Eu-Tagging: Activity-Based Specific Quantification and Simultaneous Activity Evaluation of CYP3A4 Using ¹⁵³Eu Species-Unspecific Isotope Dilution Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2014, 86, 3688-3692.	6.5	17
43	A comparison study of in-column and on-column detection for electrochromatography. Journal of Chromatography A, 2014, 1362, 225-230.	3.7	3
44	A â€œplug-and-useâ€•approach towards facile fabrication of capillary columns for high performance nanoflow liquid chromatography. Journal of Chromatography A, 2014, 1325, 109-114.	3.7	18
45	Detection and quantification of proteins and cells by use of elemental mass spectrometry: progress and challenges. Analytical and Bioanalytical Chemistry, 2013, 405, 5663-5670.	3.7	32
46	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. Metallomics, 2013, 5, 855.	2.4	13
47	Studies of biouptake and transformation of mercury by a typical unicellular diatom Phaeodactylum tricornutum. Science Bulletin, 2013, 58, 256-265.	1.7	23
48	Performance of single particle fritted capillary columns in electrochromatography. Journal of Chromatography A, 2013, 1272, 136-140.	3.7	24
49	ICP-MS-Based Multiplex and Ultrasensitive Assay of Viruses with Lanthanide-Coded Biospecific Tagging and Amplification Strategies. Analytical Chemistry, 2013, 85, 9428-9432.	6.5	71
50	Integrin-Targeted Trifunctional Probe for Cancer Cells: A â€œSeeing and Countingâ€•Approach. Analytical Chemistry, 2012, 84, 8946-8951.	6.5	54
51	Nanosemiconductor-Based Photocatalytic Vapor Generation Systems for Subsequent Selenium Determination and Speciation with Atomic Fluorescence Spectrometry and Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2012, 84, 2974-2981.	6.5	92
52	A Way to Probe the Microenvironment of Free Sulfhydryls in Intact Proteins with a Series of Monofunctional Organic Mercurials. Chemistry - A European Journal, 2012, 18, 13989-13993.	3.3	6
53	Europiumâ€Labeled Activityâ€Based Probe through Click Chemistry: Absolute Serine Protease Quantification Using ¹⁵³Eu Isotope Dilution ICP/MS. Angewandte Chemie - International Edition, 2012, 51, 3358-3363.	13.8	58
54	A dual-labelling strategy for integrated ICPMS and LIF for the determination of peptides. Journal of Analytical Atomic Spectrometry, 2011, 26, 1175.	3.0	17

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55	Mechanisms of chemical generation of volatile hydrides for trace element determination (IUPAC) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	90
56	Evaluation of cadmium species lability using ion-pair reversed phase HPLC coupled on-line with inductively coupled plasma mass spectrometry. Talanta, 2011, 84, 287-292.	5.5	7
57	â€œOneâ€potâ€•preparation of basic amino acidâ€“silica hybrid monolithic column for capillary electrochromatography. Journal of Separation Science, 2011, 34, 2314-2322.	2.5	15
58	Lanthanideâ€Coded Proteaseâ€Specific Peptideâ€“Nanoparticle Probes for a Labelâ€Free Multiplex Protease Assay Using Element Mass Spectrometry: A Proofâ€ofâ€Concept Study. Angewandte Chemie - International Edition, 2011, 50, 5130-5133.	13.8	84
59	Chemical labeling strategies for recognition and determination of protein and peptide. Scientia Sinica Chimica, 2011, 41, 663-677.	0.4	2
60	Dynamic Labeling Strategy with²⁰⁴Hg-Isotopic Methylmercurithiosalicylate for Absolute Peptide and Protein Quantification. Analytical Chemistry, 2010, 82, 1616-1620.	6.5	46
61	Free cadmium ions released from CdTe-based nanoparticles and their cytotoxicity on Phaeodactylum tricornutum. Metallomics, 2010, 2, 469.	2.4	41
62	Absolute Quantification of Intact Proteins via 1,4,7,10-Tetraazacyclododecane-1,4,7-trisacetic acidâ^'10-Maleimidoethylacetamideâ^'Europium Labeling and HPLC Coupled with Species-Unspecific Isotope Dilution ICPMS. Analytical Chemistry, 2010, 82, 1261-1269.	6.5	64
63	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3428-3433.	2.3	15
64	Bioaccumulation and transformation of cadmium by Phaeodactylum tricornutum. Science in China Series B: Chemistry, 2009, 52, 2373-2380.	0.8	5
65	Different alkyl dimethacrylate mediated stearyl methacrylate monoliths for improving separation efficiency of typical alkylbenzenes and proteins. Journal of Chromatography A, 2009, 1216, 3098-3106.	3.7	58
66	Strategy for absolute quantification of proteins: CH3Hg+ labeling integrated molecular and elemental mass spectrometry. Journal of Analytical Atomic Spectrometry, 2009, 24, 1184.	3.0	28
67	In vivo phytochelatins and Hgâ€“phytochelatin complexes in Hg-stressed Brassica chinensis L.. Metallomics, 2009, 1, 101-106.	2.4	43
68	Synergistic defensive mechanism of phytochelatins and antioxidative enzymes in Brassica chinensis L. against Cd stress. Science Bulletin, 2008, 53, 1503-1511.	9.0	18
69	Counting sulfhydryls and disulfide bonds in peptides and proteins using mercurial ions as an MS-tag. Journal of the American Society for Mass Spectrometry, 2008, 19, 1108-1113.	2.8	41
70	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. Analytical Chemistry, 2008, 80, 6104-6109.	6.5	41
71	Quantification of selenium-tagged proteins in human plasma using species-unspecific isotope dilution ICP-DRC-qMS coupled on-line with anion exchange chromatography. Journal of Analytical Atomic Spectrometry, 2008, 23, 1545.	3.0	57
72	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. Talanta, 2007, 72, 1248-1254.	5.5	64

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73	SEC-ICP-MS and ESI-MS/MS for analyzing in vitro and in vivo Cd-phytochelatin complexes in a Cd-hyperaccumulator Brassica chinensis. Journal of Analytical Atomic Spectrometry, 2007, 22, 1403.	3.0	38
74	Vapour generation at a UV/TiO2 photocatalysis reaction device for determination and speciation of mercury by AFS and HPLC-AFS. Journal of Analytical Atomic Spectrometry, 2007, 22, 330.	3.0	80
75	Determination of Cadmium in Seawater by Vapor Generation Atomic Fluorescence Spectrometry After Online Preconcentration with a Novel Alkyl Phosphinic Acid Resin. Spectroscopy Letters, 2007, 40, 547-557.	1.0	4
76	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. Analytical and Bioanalytical Chemistry, 2007, 388, 831-836.	3.7	52
77	Subcellular distribution of rare earth elements and characterization of their binding species in a newly discovered hyperaccumulator Pronephrium simplex. Talanta, 2006, 70, 26-31.	5.5	55
78	On-line pre-reduction of Se(VI) by thiourea for selenium speciation by hydride generation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 803-809.	2.9	38
79	Octyl-type monolithic columns of 530Î¼m i.d. for capillary liquid chromatography. Journal of Chromatography A, 2005, 1062, 183-188.	3.7	39
80	Electrochemical vapor generation of selenium species after online photolysis and reduction by UV-irradiation under nano TiO2 photocatalysis and its application to selenium speciation by HPLC coupled with atomic fluorescence spectrometry. Analytical and Bioanalytical Chemistry, 2005, 381, 366-372.	3.7	53
81	Preliminary study of the enrichment and fractionation of REEs in a newly discovered REE hyperaccumulator Pronephrium simplex by SEC-ICP-MS and MALDI-TOF/ESI-MS. Journal of Analytical Atomic Spectrometry, 2005, 20, 751.	3.0	26
82	Online pre-reduction of selenium(vi) with a newly designed UV/TiO2 photocatalysis reduction device. Journal of Analytical Atomic Spectrometry, 2004, 19, 715.	3.0	85
83	Historical Records of Airborne Polycyclic Aromatic Hydrocarbons by Analyzing Dated Corks of the Bark Pocket in a Longpetiole Beech Tree. Environmental Science & Technology, 2004, 38, 4739-4744.	10.0	36
84	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. Analytical and Bioanalytical Chemistry, 2003, 376, 923-927.	3.7	6
85	Preliminary Study of Existing Species of Lanthanum in the Spinach Leaves after Being Cultivated with a Culture Solution Containing Lanthanum.. Analytical Sciences, 2001, 17, 789-791.	1.6	22
86	Speciation of rare earth elements in soil by sequential extraction then HPLC coupled with visible and ICP-MS detection. Fresenius' Journal of Analytical Chemistry, 2001, 370, 1041-1047.	1.5	25
87	Evaluation of Dissolved Species of Lanthanum in the Solutions Containing Different Amino Acids by Cation-Exchange Chromatography Coupled with Electrospray Ionization Mass Spectrometry.. Analytical Sciences, 2000, 16, 241-244.	1.6	4
88	Separation of Zirconium(IV) and Hafnium(IV) by Extraction Chromatography Using Di(1-methylheptyl) Methylphosphonate as a Stationary Phase.. Analytical Sciences, 1997, 13, 27-31.	1.6	15
89	Mutual Separation of Rare Earth Elements by Extraction Chromatography Using Bis(1,1,3,3-tetramethylbutyl)phosphinic Acid as a Stationary Phase.. Analytical Sciences, 1997, 13, 153-156.	1.6	4
90	Extraction Chromatographic Behavior of Yttrium and Lanthanides in the Petroleum Sulfoxide-Ammonium Thiocyanate System.. Analytical Sciences, 1996, 12, 231-236.	1.6	6

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91	Extractive Separation of Aluminum(III), Gallium(III) and Indium(III) Using Bis(1,1,3,3-tetramethylbutyl)phosphinic Acid and Its Sulfur Analogues. Analytical Sciences, 1996, 12, 931-934.	1.6	14
92	Extraction Chromatographie Behaviors of Zirconium and Hafnium Using Sulfoxides as Stationary Phases. Analytical Sciences, 1995, 11, 909-913.	1.6	9
93	Promising Early-Career (Bio)analytical Researchers. Analytical and Bioanalytical Chemistry, 0, , .	3.7	0