

Honglan Shi

List of Publications by Year in descending order

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77
papers

2,146
citations

201674

27
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243625

44
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Characterization of Gold Nanoparticle Uptake by Tomato Plants Using Enzymatic Extraction Followed by Single-Particle Inductively Coupled Plasma–Mass Spectrometry Analysis. <i>Environmental Science & Technology</i> , 2015, 49, 3007-3014.	10.0	194
2	Single particle ICP-MS characterization of titanium dioxide, silver, and gold nanoparticles during drinking water treatment. <i>Chemosphere</i> , 2016, 144, 148-153.	8.2	137
3	Investigation of pharmaceuticals in Missouri natural and drinking water using high performance liquid chromatography-tandem mass spectrometry. <i>Water Research</i> , 2011, 45, 1818-1828.	11.3	131
4	Rapid analysis of titanium dioxide nanoparticles in sunscreens using single particle inductively coupled plasma–mass spectrometry. <i>Microchemical Journal</i> , 2015, 122, 119-126.	4.5	89
5	Single particle ICP-MS method development for the determination of plant uptake and accumulation of CeO ₂ nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5157-5167.	3.7	83
6	In vitro study of improved wound-healing effect of bioactive borate-based glass nano-/micro-fibers. <i>Materials Science and Engineering C</i> , 2015, 55, 105-117.	7.3	67
7	Rapid IC–ICP/MS method for simultaneous analysis of iodoacetic acids, bromoacetic acids, bromate, and other related halogenated compounds in water. <i>Talanta</i> , 2009, 79, 523-527.	5.5	65
8	Evaluation of thirteen haloacetic acids and ten trihalomethanes formation by peracetic acid and chlorine drinking water disinfection. <i>Chemosphere</i> , 2017, 189, 349-356.	8.2	63
9	Elucidating the mechanisms for plant uptake and in-planta speciation of cerium in radish (<i>Raphanus</i>) Tj ETQq1 1 0.784314 rgBT /Over 2017, 5, 572-577.	6.7	60
10	Fast Separation and Quantification Method for Nitroguanidine and 2,4-Dinitroanisole by Ultrafast Liquid Chromatography–Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3427-3432.	6.5	58
11	Detection of zinc oxide and cerium dioxide nanoparticles during drinking water treatment by rapid single particle ICP-MS methods. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5137-5145.	3.7	58
12	Release and Removal of Microcystins from <i>Microcystis</i> during Oxidative-, Physical-, and UV-Based Disinfection. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 2-11.	1.4	54
13	Reducing arsenic accumulation in rice grain through iron oxide amendment. <i>Ecotoxicology and Environmental Safety</i> , 2015, 118, 55-61.	6.0	50
14	N-nitrosamine formation by monochloramine, free chlorine, and peracetic acid disinfection with presence of amine precursors in drinking water system. <i>Chemosphere</i> , 2016, 153, 521-527.	8.2	46
15	pH effects on the adsorption of saxitoxin by powdered activated carbon. <i>Harmful Algae</i> , 2012, 19, 61-67.	4.8	40
16	Chemical Quality of Depositional Sediments and Associated Soils in New Orleans and the Louisiana Peninsula Following Hurricane Katrina. <i>Environmental Science & Technology</i> , 2007, 41, 3437-3443.	10.0	39
17	Formation of haloacetic acids, halonitromethanes, bromate and iodate during chlorination and ozonation of seawater and saltwater of marine aquaria systems. <i>Chemosphere</i> , 2013, 90, 2485-2492.	8.2	39
18	Simultaneous removal of ammonia and N-nitrosamine precursors from high ammonia water by zeolite and powdered activated carbon. <i>Journal of Environmental Sciences</i> , 2018, 64, 82-91.	6.1	39

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19	Evaluating the treatment effectiveness of copper-based algaecides on toxic algae <i>Microcystis aeruginosa</i> using single cell-inductively coupled plasma-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5531-5543.	3.7	38
20	Preparation of green biosorbent using rice hull to preconcentrate, remove and recover heavy metal and other metal elements from water. <i>Chemosphere</i> , 2021, 262, 127940.	8.2	38
21	Urinary metallomics as a novel biomarker discovery platform: Breast cancer as a case study. <i>Clinica Chimica Acta</i> , 2016, 452, 142-148.	1.1	37
22	In vitro stimulation of vascular endothelial growth factor by borate-based glass fibers under dynamic flow conditions. <i>Materials Science and Engineering C</i> , 2017, 73, 447-455.	7.3	34
23	Impact of TiO ₂ and ZnO nanoparticles on an aquatic microbial community: effect at environmentally relevant concentrations. <i>Nanotoxicology</i> , 2017, 11, 1140-1156.	3.0	33
24	Normalization of urinary pteridines by urine specific gravity for early cancer detection. <i>Clinica Chimica Acta</i> , 2014, 435, 42-47.	1.1	32
25	Simultaneous Detection of Six Urinary Pteridines and Creatinine by High-Performance Liquid Chromatography-Tandem Mass Spectrometry for Clinical Breast Cancer Detection. <i>Analytical Chemistry</i> , 2013, 85, 11137-11145.	6.5	30
26	Fiber-Optic-Based Micro-Probe Using Hexagonal 1-in-6 Fiber Configuration for Intracellular Single-Cell pH Measurement. <i>Analytical Chemistry</i> , 2015, 87, 7171-7179.	6.5	29
27	Rapid simultaneous analysis of 17 haloacetic acids and related halogenated water contaminants by high-performance ion chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6613-6622.	3.7	27
28	Fate of nanoparticles during alum and ferric coagulation monitored using single particle ICP-MS. <i>Chemosphere</i> , 2018, 195, 531-541.	8.2	26
29	Phase partitioning and bioaccessibility of Pb in suspended dust from unsurfaced roads in Missouri—A potential tool for determining mitigation response. <i>Atmospheric Environment</i> , 2014, 88, 90-98.	4.1	25
30	Reflection based extraordinary optical transmission fiber optic probe for refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 95-99.	7.8	23
31	Effects of Aging on the Fate and Bioavailability of Cerium Oxide Nanoparticles to Radish (<i>Raphanus</i>) Tj ETQq1 1 0.784314 rgBT /Overl 6.7 21	6.7	21
32	Effect of oxidant demand on the release and degradation of microcystin-LR from <i>Microcystis aeruginosa</i> during oxidation. <i>Chemosphere</i> , 2017, 181, 562-568.	8.2	21
33	Investigating plant uptake of organic contaminants through transpiration stream concentration factor and neural network models. <i>Science of the Total Environment</i> , 2021, 751, 141418.	8.0	21
34	Simultaneous detection of perchlorate and bromate using rapid high-performance ion exchange chromatography—tandem mass spectrometry and perchlorate removal in drinking water. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8594-8602.	5.3	20
35	Local pH monitoring of small cluster of cells using a fiber-optic dual-core micro-probe. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 398-405.	7.8	20
36	Polypropylene—MWCNT composite degradation, and release, detection and toxicity of MWCNTs during accelerated environmental aging. <i>Environmental Science: Nano</i> , 2019, 6, 1876-1894.	4.3	20

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37	Fabrication and integration of microscale permanent magnets for particle separation in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	19
38	Simultaneous Determination of Selected Trace Contaminants in Drinking Water Using Solid-Phase Extraction-High Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	19
39	Fates of Au, Ag, ZnO, and CeO ₂ Nanoparticles in Simulated Gastric Fluid Studied using Single-Particle-Inductively Coupled Plasma-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2180-2190.	2.8	19
40	Reflection-mode micro-spherical fiber-optic probes for in vitro real-time and single-cell level pH sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 571-580.	7.8	18
41	Determination of secondary and tertiary amines as N-nitrosamine precursors in drinking water system using ultra-fast liquid chromatography-tandem mass spectrometry. <i>Talanta</i> , 2015, 131, 736-741.	5.5	18
42	Development of a high-performance liquid chromatography-tandem mass spectrometry urinary pterinomics workflow. <i>Analytica Chimica Acta</i> , 2016, 927, 72-81.	5.4	17
43	Effects of environmentally relevant concentrations of mixtures of TiO ₂ , ZnO and Ag ENPs on a river bacterial community. <i>Chemosphere</i> , 2019, 230, 567-577.	8.2	17
44	Distribution of toxic trace elements in soil/sediment in post-Katrina New Orleans and the Louisiana Delta. <i>Environmental Pollution</i> , 2008, 156, 944-950.	7.5	15
45	A Sensitive Single Particle-ICP-MS Method for CeO ₂ Nanoparticles Analysis in Soil during Aging Process. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1115-1122.	5.2	12
46	Toxic trace element assessment for soils/sediments deposited during Hurricanes Katrina and Rita from southern Louisiana, USA: A sequential extraction analysis. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 1419-1428.	4.3	11
47	Occurrence and Formation of Trihalomethanes in Marine Aquaria Studied Using Solid-Phase Microextraction Gas Chromatography-Mass Spectrometry. <i>Water Environment Research</i> , 2012, 84, 202-208.	2.7	11
48	Removal of N-nitrosamine precursors in drinking water system using adsorption methods. <i>Separation and Purification Technology</i> , 2015, 156, 972-979.	7.9	11
49	Daily variation and effect of dietary folate on urinary pteridines. <i>Metabolomics</i> , 2016, 12, 1.	3.0	9
50	Leaching Assessment of Eco-Friendly Rubberized Chip Seal Pavement. <i>Transportation Research Record</i> , 2018, 2672, 67-77.	1.9	9
51	Accurate determination of drug-to-antibody ratio of interchain cysteine-linked antibody-drug conjugates by LC-HRMS. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 833-840.	3.7	9
52	Quantification of silver nanoparticle interactions with yeast <i>Saccharomyces cerevisiae</i> studied using single-cell ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3077-3086.	3.7	9
53	A balancing act: Optimizing free chlorine contact time to minimize iodo-DBPs, NDMA, and regulated DBPs in chloraminated drinking water. <i>Journal of Environmental Sciences</i> , 2022, 117, 315-325.	6.1	9
54	Simultaneous determination of urinary quinolinate, gentisate, 4-hydroxybenzoate, and L-ketoglutarate by high-performance liquid chromatography-tandem mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 6572-6578.	2.7	8

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55	Trace metals in fugitive dust from unsurfaced roads in the Viburnum Trend resource mining District of Missouriâ€”Implementation of a direct-suspension sampling methodology. <i>Chemosphere</i> , 2013, 92, 1506-1512.	8.2	7
56	Preliminary Assessment of an Economical Fugitive Road Dust Sampler for the Collection of Bulk Samples for Geochemical Analysis. <i>Journal of Environmental Quality</i> , 2013, 42, 21-29.	2.0	7
57	Detection, occurrence, and removal of selected pharmaceuticals in Missouri source and finished drinking waters. <i>Urban Water Journal</i> , 2017, 14, 704-712.	2.1	7
58	Development of a HPLC-MS/MS method for assessment of thiol redox status in human tear fluids. <i>Analytical Biochemistry</i> , 2021, 629, 114295.	2.4	7
59	Preparation and Pharmacokinetic Characterization of an Anti-Virulence Compound Nanosuspensions. <i>Pharmaceutics</i> , 2021, 13, 1586.	4.5	7
60	Plant tissue analysis for explosive compounds in phytoremediation and phytoforensics. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 2219-2229.	1.7	6
61	Green Analysis: High Throughput Analysis of Emerging Pollutants in Plant Sap by Freezeâ€”Thawâ€”Centrifugal Membrane Filtration Sample Preparationâ€”HPLC-MS/MS Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12927-12935.	5.2	6
62	Simultaneous Determination of Eight Urinary Metabolites by HPLC-MS/MS for Noninvasive Assessment of Traumatic Brain Injury. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1910-1917.	2.8	6
63	Phytoscreening for perchlorate: rapid analysis of tree sap. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 138-145.	2.4	5
64	Green Analysis: Rapid-Throughput Analysis of Volatile Contaminants in Plants by Freezeâ€”Thawâ€”Equilibration Sample Preparation and SPMEâ€”GC-MS Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5428-5434.	5.2	5
65	Comprehensive studies of aldicarb degradation in various oxidant systems using high performance liquid chromatography coupled with UV detection and quadrupole ion trap mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 97-111.	3.3	4
66	Increased Leaching of As, Se, Mo, and V from High Calcium Coal Ash Containing Trona Reaction Products. <i>Energy & Fuels</i> , 2013, 27, 1531-1537.	5.1	4
67	Water Quality in Selected Small Drinking Water Systems of Missouri Rural Communities. <i>Beverages</i> , 2016, 2, 10.	2.8	4
68	Enhanced Flocculation Using Drinking Water Treatment Plant Sedimentation Residual Solids. <i>Water (Switzerland)</i> , 2019, 11, 1821.	2.7	4
69	Labelâ€”free in situ pH monitoring in a single living cell using an optical nanoprobe. <i>Medical Devices & Sensors</i> , 2020, 3, e10079.	2.7	4
70	Control of Disinfection Byproduct Formation in Drinking Water by Ferrous Iron-Hydrogen Peroxide Oxidation. <i>Environmental Engineering Science</i> , 2022, 39, 105-113.	1.6	3
71	Establishing pteridine metabolism in a progressive isogenic breast cancer cell model. <i>Metabolomics</i> , 2022, 18, 2.	3.0	3
72	Physicochemical properties and formulation development of a novel compound inhibiting <i>Staphylococcus aureus</i> biofilm formation. <i>PLoS ONE</i> , 2021, 16, e0246408.	2.5	2

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73	Identification and quantification of 11 airborne biochemicals emitted by the brown recluse and another primitive hunting spider using headspace solid-phase microextraction-GC/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6605-6615.	3.7	2
74	Unveil early-stage nanocytotoxicity by a label-free single cell pH nanoprobe. <i>Analyst</i> , The, 2020, 145, 7210-7224.	3.5	2
75	A rebuttal to "A comment to "Normalization of urinary pteridines by urine specific gravity for early cancer detection" [Clin. Chim. Acta 435 (2014) 42-47]" Clinica Chimica Acta, 2015, 438, 415-417.	1.1	1
76	Extensive Thiol Profiling for Assessment of Intracellular Redox Status in Cultured Cells by HPLC-MS/MS. <i>Antioxidants</i> , 2022, 11, 24.	5.1	1
77	Establishing pteridine metabolism in a progressive isogenic breast cancer cell model " part II. <i>Metabolomics</i> , 2022, 18, 27.	3.0	1