

Honglan Shi

List of Publications by Year in descending order

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77
papers

2,146
citations

201674

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Establishing pteridine metabolism in a progressive isogenic breast cancer cell model. <i>Metabolomics</i> , 2022, 18, 2.	3.0	3
5	Establishing pteridine metabolism in a progressive isogenic breast cancer cell model “ part II. <i>Metabolomics</i> , 2022, 18, 27.	3.0	1
6	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
7	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
8	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
9	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
10	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
11	Green Analysis: Rapid-Throughput Analysis of Volatile Contaminants in Plants by Freeze-Thaw Equilibration Sample Preparation and SPME-GC-MS Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5428-5434.	5.2	5
12	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
13	Preparation and Pharmacokinetic Characterization of an Anti-Virulence Compound Nanosuspensions. <i>Pharmaceutics</i> , 2021, 13, 1586.	4.5	7
14	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
15	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
16	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
17	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
18	Label-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

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19	Unveil early-stage nanocytotoxicity by a label-free single cell pH nanoprobe. <i>Analyst</i> , The, 2020, 145, 7210-7224.	3.5	2
20	Green Analysis: High Throughput Analysis of Emerging Pollutants in Plant Sap by Freeze-Thaw-Centrifugal Membrane Filtration Sample Preparation-HPLC-MS/MS Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12927-12935.	5.2	6
21	Enhanced Flocculation Using Drinking Water Treatment Plant Sedimentation Residual Solids. <i>Water (Switzerland)</i> , 2019, 11, 1821.	2.7	4
22	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
23	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
24	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
25	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
26	Fate of nanoparticles during alum and ferric coagulation monitored using single particle ICP-MS. <i>Chemosphere</i> , 2018, 195, 531-541.	8.2	26
27	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
28	Leaching Assessment of Eco-Friendly Rubberized Chip Seal Pavement. <i>Transportation Research Record</i> , 2018, 2672, 67-77.	1.9	9
29	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
30	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
31	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
32	Elucidating the mechanisms for plant uptake and in-planta speciation of cerium in radish (<i>Raphanus</i>). <i>Environmental Science and Technology</i> , 2017, 5, 572-577.	6.7	60
33	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
34	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
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	Water Quality in Selected Small Drinking Water Systems of Missouri Rural Communities. <i>Beverages</i> , 2016, 2, 10.	2.8	4

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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	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
39	Daily variation and effect of dietary folate on urinary pteridines. <i>Metabolomics</i> , 2016, 12, 1.	3.0	9
40	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
41	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
42	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
43	Effects of Aging on the Fate and Bioavailability of Cerium Oxide Nanoparticles to Radish (<i>Raphanus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 6.7 21	6.7	21
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	Simultaneous determination of urinary quinolinate, gentisate, 4-hydroxybenzoate, and $\hat{\pm}$ -ketoglutarate by high-performance liquid chromatography-tandem mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 6572-6578.	2.7	8
52	Reducing arsenic accumulation in rice grain through iron oxide amendment. <i>Ecotoxicology and Environmental Safety</i> , 2015, 118, 55-61.	6.0	50
53	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
54	Phytoscreening for perchlorate: rapid analysis of tree sap. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 138-145.	2.4	5

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55	Removal of N-nitrosamine precursors in drinking water system using adsorption methods. Separation and Purification Technology, 2015, 156, 972-979.	7.9	11
56	Reflection-mode micro-spherical fiber-optic probes for in vitro real-time and single-cell level pH sensing. Sensors and Actuators B: Chemical, 2015, 207, 571-580.	7.8	18
57	Determination of secondary and tertiary amines as N-nitrosamine precursors in drinking water system using ultra-fast liquid chromatography-tandem mass spectrometry. Talanta, 2015, 131, 736-741.	5.5	18
58	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
59	Phase partitioning and bioaccessibility of Pb in suspended dust from unsurfaced roads in Missouri: A potential tool for determining mitigation response. Atmospheric Environment, 2014, 88, 90-98.	4.1	25
60	Reflection based extraordinary optical transmission fiber optic probe for refractive index sensing. Sensors and Actuators B: Chemical, 2014, 193, 95-99.	7.8	23
61	Normalization of urinary pteridines by urine specific gravity for early cancer detection. Clinica Chimica Acta, 2014, 435, 42-47.	1.1	32
62	Formation of haloacetic acids, halonitromethanes, bromate and iodate during chlorination and ozonation of seawater and saltwater of marine aquaria systems. Chemosphere, 2013, 90, 2485-2492.	8.2	39
63	Trace metals in fugitive dust from unsurfaced roads in the Viburnum Trend resource mining District of Missouri: Implementation of a direct-suspension sampling methodology. Chemosphere, 2013, 92, 1506-1512.	8.2	7
64	Increased Leaching of As, Se, Mo, and V from High Calcium Coal Ash Containing Trona Reaction Products. Energy & Fuels, 2013, 27, 1531-1537.	5.1	4
65	Simultaneous Detection of Six Urinary Pteridines and Creatinine by High-Performance Liquid Chromatography-Tandem Mass Spectrometry for Clinical Breast Cancer Detection. Analytical Chemistry, 2013, 85, 11137-11145.	6.5	30
66	Preliminary Assessment of an Economical Fugitive Road Dust Sampler for the Collection of Bulk Samples for Geochemical Analysis. Journal of Environmental Quality, 2013, 42, 21-29.	2.0	7
67	Occurrence and Formation of Trihalomethanes in Marine Aquaria Studied Using Solid-Phase Microextraction Gas Chromatography-Mass Spectrometry. Water Environment Research, 2012, 84, 202-208.	2.7	11
68	Plant tissue analysis for explosive compounds in phytoremediation and phytoforensics. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 2219-2229.	1.7	6
69	pH effects on the adsorption of saxitoxin by powdered activated carbon. Harmful Algae, 2012, 19, 61-67.	4.8	40
70	Fast Separation and Quantification Method for Nitroguanidine and 2,4-Dinitroanisole by Ultrafast Liquid Chromatography-Tandem Mass Spectrometry. Analytical Chemistry, 2012, 84, 3427-3432.	6.5	58
71	Investigation of pharmaceuticals in Missouri natural and drinking water using high performance liquid chromatography-tandem mass spectrometry. Water Research, 2011, 45, 1818-1828.	11.3	131
72	Comprehensive studies of aldicarb degradation in various oxidant systems using high performance liquid chromatography coupled with UV detection and quadrupole ion trap mass spectrometry. International Journal of Environmental Analytical Chemistry, 2011, 91, 97-111.	3.3	4

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73	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
74	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
75	Rapid 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
76	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
77	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