Yuxiong Huang

List of Publications by Citations

70 papers	2,867 citations	30 h-index	53 g-index
77 ext. papers	3,597 ext. citations	8.4 avg, IF	5.72 L-index

#	Paper	IF	Citations
70	Engineered nanomaterials for water treatment and remediation: Costs, benefits, and applicability. *Chemical Engineering Journal*, **2016**, 286, 640-662	14.7	456
69	Magnetic sulfide-modified nanoscale zerovalent iron (S-nZVI) for dissolved metal ion removal. *Water Research*, **2015**, 74, 47-57	12.5	189
68	(1)H NMR and GC-MS Based Metabolomics Reveal Defense and Detoxification Mechanism of Cucumber Plant under Nano-Cu Stress. *Environmental Science & Technology*, **2016**, 50, 2000-10	10.3	158
67	Simultaneous removal of cadmium and nitrate in aqueous media by nanoscale zerovalent iron (nZVI) and Au doped nZVI particles. *Water Research*, **2014**, 63, 102-11	12.5	134
66	EDTA functionalized magnetic nanoparticle sorbents for cadmium and lead contaminated water treatment. *Water Research*, **2015**, 80, 159-68	12.5	129
65	Metabolomics to Detect Response of Lettuce (Lactuca sativa) to Cu(OH)2 Nanopesticides: Oxidative Stress Response and Detoxification Mechanisms. *Environmental Science & Technology*, **2016**, 50, 9697-707	10.3	119
64	Heteroaggregation of nanoparticles with biocolloids and geocolloids. *Advances in Colloid and Interface Science*, **2015**, 226, 24-36	14.3	116
63	Plant-based green synthesis of metallic nanoparticles: scientific curiosity or a realistic alternative to chemical synthesis?. *Nanotechnology for Environmental Engineering*, **2016**, 1, 1	5.1	112
62	The Accuracy of Citizen Science Data: A Quantitative Review. *Bulletin of the Ecological Society of America*, **2017**, 98, 278-290	0.7	95
61	Citizen Science as an Approach for Overcoming Insufficient Monitoring and Inadequate Stakeholder Buy-in in Adaptive Management: Criteria and Evidence. *Ecosystems*, **2015**, 18, 493-506	3.9	79
60	Metabolomics Reveals Cu(OH) Nanopesticide-Activated Anti-oxidative Pathways and Decreased Beneficial Antioxidants in Spinach Leaves. *Environmental Science & Technology*, **2017**, 51, 10184-10194	10.3	76
59	Magnetic Nanoparticle Adsorbents for Emerging Organic Contaminants. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 731-736	8.3	65
58	Interactions, Transformations, and Bioavailability of Nano-Copper Exposed to Root Exudates. *Environmental Science & Technology*, **2017**, 51, 9774-9783	10.3	63
57	Detection of nanoparticles in edible plant tissues exposed to nano-copper using single-particle ICP-MS. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	60
56	Competitive removal of Pb and malachite green from water by magnetic phosphate nanocomposites. *Water Research*, **2019**, 150, 442-451	12.5	58
55	H NMR and GC-MS based metabolomics reveal nano-Cu altered cucumber (Cucumis sativus) fruit nutritional supply. *Plant Physiology and Biochemistry*, **2017**, 110, 138-146	5.4	55
54	Comparative Metabolic Response between Cucumber (Cucumis sativus) and Corn (Zea mays) to a Cu(OH) Nanopesticide. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 6628-6636	5.7	55

53	Simultaneous removal of PAHs and metal contaminants from water using magnetic nanoparticle adsorbents. *Science of the Total Environment*, **2016**, 571, 1029-36	10.2	54
52	Removal of Arsenic and Phosphate from Aqueous Solution by Metal (Hydr-)oxide Coated Sand. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1128-1138	8.3	53
51	GC-TOF-MS based metabolomics and ICP-MS based metallomics of cucumber (Cucumis sativus) fruits reveal alteration of metabolites profile and biological pathway disruption induced by nano copper. *Environmental Science: Nano*, **2016**, 3, 1114-1123	7.1	47
50	Response at Genetic, Metabolic, and Physiological Levels of Maize (Zea mays) Exposed to a Cu(OH)2 Nanopesticide. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8294-8301	8.3	45
49	Heteroaggregation of CeO2 and TiO2 engineered nanoparticles in the aqueous phase: Application of turbiscan stability index and fluorescence excitation-emission matrix (EEM) spectra. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 533, 9-19	5.1	43
48	Metabolomics Reveals the Molecular Mechanisms of Copper Induced Cucumber Leaf (Cucumis sativus) Senescence. *Environmental Science & Technology*, **2018**, 52, 7092-7100	10.3	43
47	Direct Synthesis of Novel and Reactive Sulfide-modified Nano Iron through Nanoparticle Seeding for Improved Cadmium-Contaminated Water Treatment. *Scientific Reports*, **2016**, 6, 24358	4.9	40
46	Properties of different natural organic matter influence the adsorption and aggregation behavior of TiO2 nanoparticles. *Journal of Saudi Chemical Society*, **2018**, 22, 146-154	4.3	38
45	Activation of antioxidant and detoxification gene expression in cucumber plants exposed to a Cu(OH)2 nanopesticide. *Environmental Science: Nano*, **2017**, 4, 1750-1760	7.1	37
44	Antioxidant response of cucumber (Cucumis sativus) exposed to nano copper pesticide: Quantitative determination via LC-MS/MS. *Food Chemistry*, **2019**, 270, 47-52	8.5	36
43	Application of metabolomics to assess the impact of Cu(OH)2 nanopesticide on the nutritional value of lettuce (Lactuca sativa): Enhanced Cu intake and reduced antioxidants. *NanoImpact*, **2016**, 3-4, 58-66	5.6	36
42	C60 Fullerols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. *Environmental Science & Technology*, **2019**, 53, 2171-2180	10.3	33
41	Incidence and persistence of silver nanoparticles throughout the wastewater treatment process. *Water Research*, **2019**, 156, 188-198	12.5	30
40	Mn3O4 nanozymes boost endogenous antioxidant metabolites in cucumber (Cucumis sativus) plant and enhance resistance to salinity stress. *Environmental Science: Nano*, **2020**, 7, 1692-1703	7.1	30
39	Comparation of the phytotoxicity between chemically and green synthesized silver nanoparticles. *Science of the Total Environment*, **2021**, 752, 142264	10.2	28
38	Quantitative analysis of changes in amino acids levels for cucumber (Cucumis sativus) exposed to nano copper. *NanoImpact*, **2018**, 12, 9-17	5.6	23
37	Surface coating determines the response of soybean plants to cadmium sulfide quantum dots. *NanoImpact*, **2019**, 14, 100151	5.6	21
36	Highly efficient bacterial removal and disinfection by magnetic barium phosphate nanoflakes with embedded iron oxide nanoparticles. *Environmental Science: Nano*, **2018**, 5, 1341-1349	7.1	16

35	Fast Multielement Quantification of Nanoparticles in Wastewater and Sludge Using Single-Particle ICP-MS. *ACS ES&T Water*, **2021**, 1, 205-213		16
34	Isothermal titration microcalorimetry to determine the thermodynamics of metal ion removal by magnetic nanoparticle sorbents. *Environmental Science: Nano*, **2016**, 3, 1206-1214	7.1	14
33	Simultaneous molybdate (Mo(VI)) recovery and hazardous ions immobilization via nanoscale zerovalent iron. *Journal of Hazardous Materials*, **2018**, 344, 698-706	12.8	11
32	Successive removal of Pb and Congo red by magnetic phosphate nanocomposites from aqueous solution. *Science of the Total Environment*, **2019**, 658, 1139-1149	10.2	11
31	Multi-technique approach to study the stability of silver nanoparticles at predicted environmental concentrations in wastewater. *Water Research*, **2019**, 166, 115072	12.5	10
30	Single particle ICP-MS and GC-MS provide a new insight into the formation mechanisms during the green synthesis of AgNPs. *New Journal of Chemistry*, **2019**, 43, 3946-3955	3.6	10
29	Optimization of porous structure of superparamagnetic nanoparticle adsorbents for higher and faster removal of emerging organic contaminants and PAHs. *Environmental Science: Water Research and Technology*, **2016**, 2, 521-528	4.2	10
28	TiO Nanoparticles in the Marine Environment: Enhancing Bioconcentration, While Limiting Biotransformation of Arsenic in the Mussel. *Environmental Science & Technology*, **2020**, 54, 12254-12261	10.3	7
27	Thorough utilization of rice husk: metabolite extracts for silver nanocomposite biosynthesis and residues for silica nanomaterials fabrication. *New Journal of Chemistry*, **2019**, 43, 9201-9209	3.6	6
26	Effective water disinfection using magnetic barium phosphate nanoflakes loaded with Ag nanoparticles. *Journal of Cleaner Production*, **2019**, 218, 173-182	10.3	6
25	Indium-modified Ga2O3 hierarchical nanosheets as efficient photocatalysts for the degradation of perfluorooctanoic acid. *Environmental Science: Nano*, **2020**, 7, 2229-2239	7.1	6
24	Coagulation and Dissolution of Zinc Oxide Nanoparticles in the Presence of Humic Acid Under Different pH Values. *Environmental Engineering Science*, **2016**, 33, 347-353	2	6
23	TiO nanoparticles enhanced bioaccumulation and toxic performance of PAHs via trophic transfer. *Journal of Hazardous Materials*, **2021**, 407, 124834	12.8	6
22	Alleviative Effects of C on the Trophic Transfer of Cadmium along the Food Chain in Aquatic Environment. *Environmental Science & Technology*, **2019**, 53, 8381-8388	10.3	5
21	Piezoelectric effect enhanced photocatalysis in environmental remediation: State-of-the-art techniques and future scenarios. *Science of the Total Environment*, **2022**, 806, 150924	10.2	5
20	Magnesium Oxide Nanomaterial, an Alternative for Commercial Copper Bactericides: Field-Scale Tomato Bacterial Spot Disease Management and Total and Bioavailable Metal Accumulation in Soil. *Environmental Science & Technology*, **2021**, 55, 13561-13570	10.3	5
19	Graphene dispersed and surface plasmon resonance-enhanced Ag3PO4 (DSPR-Ag3PO4) for visible light driven high-rate photodegradation of carbamazepine. *Chemical Engineering Journal*, **2021**, 405, 126850	14.7	5
18	Combined toxicity of nano-TiO and Cd to Scenedesmus obliquus: Effects at different concentration ratios. *Journal of Hazardous Materials*, **2021**, 418, 126354	12.8	5

17	Quantifying the Dynamics of Polystyrene Microplastics UV-Aging Process. *Environmental Science and Technology Letters*, **2022**, 9, 50-56	11	5
16	Successive removal of E. coli and a mixture of Pb2+ and malachite green from water via magnetic iron oxide/phosphate nanocomposites. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 578, 123598	5.1	4
15	Smartphone-powered efficient water disinfection at the point of use. *Npj Clean Water*, **2020**, 3,	11.2	3
14	MoS Nanosheets-Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. *ACS Nano*, **2021**, 15, 16344-16356	16.7	3
13	Ecotoxicological effects of DBPs on freshwater phytoplankton communities in co-culture systems. *Journal of Hazardous Materials*, **2022**, 421, 126679	12.8	3
12	Environmental Fate and Toxicity of Sunscreen-Derived Inorganic Ultraviolet Filters in Aquatic Environments: A Review.. *Nanomaterials*, **2022**, 12,	5.4	3
11	Effects of manufactured nanomaterials on algae: Implications and applications. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	3
10	Environmental risks of disposable face masks during the pandemic of COVID-19: Challenges and management.. *Science of the Total Environment*, **2022**, 825, 153880	10.2	3
9	Environmental implications of MoS nanosheets on rice and associated soil microbial communities. *Chemosphere*, **2021**, 291, 133004	8.4	2
8	Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications **2016**,		2
7	Molecular-Level Insights on the Facet-Dependent Degradation of Perfluorooctanoic Acid. *ACS Applied Materials & Interfaces*, **2021**, 13, 41584-41592	9.5	2
6	Reinventing MoS2 Co-catalytic Fenton reaction: Oxygen-incorporation mediating surface superoxide radical generation. *Nano Research*,1	10	2
5	Public Perceptions and Willingness-to-Pay for Nanopesticides.. *Nanomaterials*, **2022**, 12,	5.4	2
4	Remediation of heavy metal contamination of sediments and soils using ligand-coated dense nanoparticles. *PLoS ONE*, **2020**, 15, e0239137	3.7	1
3	Shifting entrepreneurial landscape and development performance of water startups in emerging water markets. *PLoS ONE*, **2021**, 16, e0246282	3.7	1
2	Application of Metabolomics to Discover the Implications of Nanomaterials for Crop Plants **2019**, 106-123		
1	Quantification and Imaging of Nanomaterials in Biological Samples **2022**, 3-19		