

# Wen Zhang

## List of Publications by Citations

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158  
papers

6,130  
citations

39  
h-index

73  
g-index

166  
ext. papers

7,735  
ext. citations

7.3  
avg, IF

6.45  
L-index

#	Paper	IF	Citations
158	Mechanism of photogenerated reactive oxygen species and correlation with the antibacterial properties of engineered metal-oxide nanoparticles. <i>ACS Nano</i> , <b>2012</b> , 6, 5164-73	16.7	993
157	Modeling the primary size effects of citrate-coated silver nanoparticles on their ion release kinetics. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 4422-8	10.3	370
156	Enhanced catalytic degradation of methylene blue by $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /graphene oxide via heterogeneous photo-Fenton reactions. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 206, 642-652	21.8	276
155	Phytotoxicity, accumulation and transport of silver nanoparticles by <i>Arabidopsis thaliana</i> . <i>Nanotoxicology</i> , <b>2013</b> , 7, 323-37	5.3	204
154	Photogeneration of reactive oxygen species on uncoated silver, gold, nickel, and silicon nanoparticles and their antibacterial effects. <i>Langmuir</i> , <b>2013</b> , 29, 4647-51	4	194
153	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12938-12948	10.3	190
152	Attachment efficiency of nanoparticle aggregation in aqueous dispersions: modeling and experimental validation. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 7054-62	10.3	98
151	Interactions between nano/micro plastics and suspended sediment in water: Implications on aggregation and settling. <i>Water Research</i> , <b>2019</b> , 161, 486-495	12.5	91
150	Microwave enhanced Fenton-like process for degradation of perfluorooctanoic acid (PFOA) using Pb-BiFeO <sub>3</sub> /rGO as heterogeneous catalyst. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 756-764	14.7	87
149	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	86
148	Nanoparticle aggregation: principles and modeling. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 811, 19-43	3.6	85
147	Separation, characterization and identification of microplastics and nanoplastics in the environment. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137561	10.2	80
146	Size effects on adsorption of hematite nanoparticles on <i>E. coli</i> cells. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 2172-8	10.3	78
145	Influences of surface coating, UV irradiation and magnetic field on the algae removal using magnetite nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1190-6	10.3	74
144	Influences of Air, Oxygen, Nitrogen, and Carbon Dioxide Nanobubbles on Seed Germination and Plant Growth. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5117-5124	5.7	74
143	Influence of dissolved oxygen on aggregation kinetics of citrate-coated silver nanoparticles. <i>Environmental Pollution</i> , <b>2011</b> , 159, 3757-62	9.3	74
142	Influence of aqueous media on the ROS-mediated toxicity of ZnO nanoparticles toward green fluorescent protein-expressing <i>Escherichia coli</i> under UV-365 irradiation. <i>Langmuir</i> , <b>2014</b> , 30, 2852-62	4	70

141	Visible-light-driven photo-Fenton reactions using Zn <sub>1-1.5</sub> Fe <sub>x</sub> S/g-C <sub>3</sub> N <sub>4</sub> photocatalyst: Degradation kinetics and mechanisms analysis. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 266, 118653	21.8	68
140	Ceramic membrane defouling (cleaning) by air Nano Bubbles. <i>Chemosphere</i> , <b>2016</b> , 146, 379-84	8.4	68
139	Size-dependent transport and retention of micron-sized plastic spheres in natural sand saturated with seawater. <i>Water Research</i> , <b>2018</b> , 143, 518-526	12.5	65
138	Surface-coating-dependent dissolution, aggregation, and reactive oxygen species (ROS) generation of silver nanoparticles under different irradiation conditions. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 10293-301	10.3	64
137	Heteroaggregation between PEI-coated magnetic nanoparticles and algae: effect of particle size on algal harvesting efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6102-8	9.5	62
136	Impacts of hematite nanoparticle exposure on biomechanical, adhesive, and surface electrical properties of Escherichia coli cells. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 3905-15	4.8	60
135	Reactive Photo-Fenton ceramic membranes: Synthesis, characterization and antifouling performance. <i>Water Research</i> , <b>2018</b> , 144, 690-698	12.5	56
134	Interaction force measurement between E. coli cells and nanoparticles immobilized surfaces by using AFM. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 82, 316-24	6	56
133	Organotin Release from Polyvinyl Chloride Microplastics and Concurrent Photodegradation in Water: Impacts from Salinity, Dissolved Organic Matter, and Light Exposure. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10741-10752	10.3	55
132	Aggregation kinetics of CeO <sub>2</sub> nanoparticles in KCl and CaCl <sub>2</sub> solutions: measurements and modeling. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 6483-6491	2.3	55
131	Electrodeposition of gold nanoparticles and reduced graphene oxide on an electrode for fast and sensitive determination of methylmercury in fish. <i>Food Chemistry</i> , <b>2017</b> , 237, 423-430	8.5	54
130	Polymeric catalytically active membranes for reaction-separation coupling: A review. <i>Journal of Membrane Science</i> , <b>2019</b> , 583, 118-138	9.6	54
129	Use of a smartphone for visual detection of melamine in milk based on Au@Carbon quantum dots nanocomposites. <i>Food Chemistry</i> , <b>2019</b> , 272, 58-65	8.5	54
128	Characterization of dissolved organic matters responsible for ultrafiltration membrane fouling in algal harvesting. <i>Algal Research</i> , <b>2013</b> , 2, 223-229	5	53
127	Enhancing oxygen reduction reaction of supercapacitor microbial fuel cells with electrospun carbon nanofibers composite cathode. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 544-553	14.7	49
126	Generation of nanobubbles by ceramic membrane filters: The dependence of bubble size and zeta potential on surface coating, pore size and injected gas pressure. <i>Chemosphere</i> , <b>2018</b> , 203, 327-335	8.4	48
125	The effect of Fe <sup>0</sup> /Fe <sup>2+</sup> /Fe <sup>3+</sup> on nitrobenzene degradation in the anaerobic sludge. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 143, 57-64	12.8	48
124	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118476	9.6	45

123	Oxidative dissolution of polymer-coated CdSe/ZnS quantum dots under UV irradiation: mechanisms and kinetics. <i>Environmental Pollution</i> , <b>2012</b> , 164, 259-66	9.3	45
122	Cotransport of nanoplastics (NPs) with fullerene (C) in saturated sand: Effect of NPs/C ratio and seawater salinity. <i>Water Research</i> , <b>2019</b> , 148, 469-478	12.5	45
121	Surface interactions affect the toxicity of engineered metal oxide nanoparticles toward Paramecium. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 1675-81	4	44
120	Adsorption of hematite nanoparticles onto Caco-2 cells and the cellular impairments: effect of particle size. <i>Nanotechnology</i> , <b>2010</b> , 21, 355103	3.4	41
119	Recycling spent lithium-ion battery as adsorbents to remove aqueous heavy metals: Adsorption kinetics, isotherms, and regeneration assessment. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 156, 104688	11.9	39
118	Synthesis of nitrogen-doped graphene catalyst by high-energy wet ball milling for electrochemical systems. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 2136-2149	4.5	39
117	A dual-mode sensor for colorimetric and fluorescent detection of nitrite in hams based on carbon dots-neutral red system. <i>Meat Science</i> , <b>2019</b> , 147, 127-134	6.4	38
116	pH Effect on Heavy Metal Release from a Polluted Sediment. <i>Journal of Chemistry</i> , <b>2018</b> , 2018, 1-7	2.3	38
115	Omniphobic PVDF nanofibrous membrane for superior anti-wetting performance in direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2020</b> , 608, 118226	9.6	37
114	Characterizing distribution, sources, and potential health risk of polybrominated diphenyl ethers (PBDEs) in office environment. <i>Environmental Pollution</i> , <b>2015</b> , 198, 25-31	9.3	36
113	Direct Observation of the Release of Nanoplastics from Commercially Recycled Plastics with Correlative Raman Imaging and Scanning Electron Microscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 7920-7926	16.7	36
112	Enhanced degradation of antibiotics by photo-fenton reactive membrane filtration. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 386, 121955	12.8	36
111	Colloidal Properties of Air, Oxygen, and Nitrogen Nanobubbles in Water: Effects of Ionic Strength, Natural Organic Matters, and Surfactants. <i>Environmental Engineering Science</i> , <b>2018</b> , 35, 720-727	2	34
110	Microwave-enhanced membrane filtration for water treatment. <i>Journal of Membrane Science</i> , <b>2018</b> , 568, 97-104	9.6	34
109	Role of surface functionalities of nanoplastics on their transport in seawater-saturated sea sand. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113177	9.3	33
108	Algae harvesting for biofuel production: influences of UV irradiation and polyethylenimine (PEI) coating on bacterial bioaggregation. <i>Bioresource Technology</i> , <b>2014</b> , 166, 266-72	11	33
107	A rapid and nondestructive method to determine the distribution map of protein, carbohydrate and sialic acid on Edible bird's nest by hyper-spectral imaging and chemometrics. <i>Food Chemistry</i> , <b>2017</b> , 229, 235-241	8.5	31
106	A signal on-off ratiometric electrochemical sensor coupled with a molecular imprinted polymer for selective and stable determination of imidacloprid. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 154, 112091	11.8	31

105	Effects of organic acids and initial solution pH on photocatalytic degradation of bisphenol A (BPA) in a photo-Fenton-like process using goethite ( $\alpha\text{-FeOOH}$ ). <i>Photochemical and Photobiological Sciences</i> , <b>2016</b> , 15, 1046-53	4.2	31
104	Spatiotemporal Distribution, Sources, and Photobleaching Imprint of Dissolved Organic Matter in the Yangtze Estuary and Its Adjacent Sea Using Fluorescence and Parallel Factor Analysis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130852	3.7	31
103	Enhanced hydrogen production by carbon-doped TiO <sub>2</sub> decorated with reduced graphene oxide (rGO) under visible light irradiation. <i>RSC Advances</i> , <b>2016</b> , 6, 2479-2488	3.7	30
102	Stability of an H <sub>2</sub> -producing photocatalyst (Ru/(CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> ) in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1286-1296	6.7	30
101	The pH effects on H <sub>2</sub> evolution kinetics for visible light water splitting over the Ru/(CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> photocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 11727-11736	6.7	30
100	Growth of <i>Chlorella vulgaris</i> and nutrient removal in the wastewater in response to intermittent carbon dioxide. <i>Chemosphere</i> , <b>2017</b> , 186, 977-985	8.4	30
99	Imaging and Quantifying the Morphology and Nanoelectrical Properties of Quantum Dot Nanoparticles Interacting with DNA. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 599-606	3.8	30
98	Rapid and wide-range determination of Cd(II), Pb(II), Cu(II) and Hg(II) in fish tissues using light addressable potentiometric sensor. <i>Food Chemistry</i> , <b>2017</b> , 221, 541-547	8.5	29
97	Improved Postharvest Quality of Cold Stored Blueberry by Edible Coating Based on Composite Gum Arabic/Roselle Extract. <i>Food and Bioprocess Technology</i> , <b>2019</b> , 12, 1537-1547	5.1	29
96	Organotin contamination in commercial and wild oysters from China: Increasing occurrence of triphenyltin. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 2527-2534	10.2	29
95	Effects of anodic oxidation of a substoichiometric titanium dioxide reactive electrochemical membrane on algal cell destabilization and lipid extraction. <i>Bioresource Technology</i> , <b>2016</b> , 203, 112-7	11	28
94	A smart-phone-based electrochemical platform with programmable solid-state-microwave flow digestion for determination of heavy metals in liquid food. <i>Food Chemistry</i> , <b>2020</b> , 303, 125378	8.5	28
93	A smartphone-integrated ratiometric fluorescence sensor for visual detection of cadmium ions. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124872	12.8	27
92	Hybrid AFM for Nanoscale Physicochemical Characterization: Recent Development and Emerging Applications. <i>Small</i> , <b>2017</b> , 13, 1603525	11	25
91	Human intestinal epithelial cells exhibit a cellular response indicating a potential toxicity upon exposure to hematite nanoparticles. <i>Cell Biology and Toxicology</i> , <b>2012</b> , 28, 343-68	7.4	25
90	Experimental and Modeling Assessment of the Roles of Hydrophobicity and Zeta Potential in Chemically Modified Poly(ether sulfone) Membrane Fouling Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 8580-8589	3.9	24
89	Recovering Magnetic Fe <sub>3</sub> O <sub>4</sub> -ZnO Nanocomposites from Algal Biomass Based on Hydrophobicity Shift under UV Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11677-82	9.5	24
88	Atomic force microscopy - Scanning electrochemical microscopy (AFM-SECM) for nanoscale topographical and electrochemical characterization: Principles, applications and perspectives. <i>Electrochimica Acta</i> , <b>2020</b> , 332, 135472	6.7	24

87	Visualizing and quantifying the nanoscale hydrophobicity and chemical distribution of surface modified polyethersulfone (PES) membranes. <i>Nanoscale</i> , <b>2017</b> , 9, 15550-15557	7.7	23
86	Membrane-Disrupting Nanofibrous Peptide Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4657-4670	5.5	23
85	Phosphorus, organic matter and nitrogen distribution characteristics of the surface sediments in Nansi Lake, China. <i>Environmental Earth Sciences</i> , <b>2015</b> , 73, 5669-5675	2.9	21
84	Alpha-Fe(2)O(3) elicits diameter-dependent effects during exposure to an in vitro model of the human placenta. <i>Cell Biology and Toxicology</i> , <b>2014</b> , 30, 31-53	7.4	21
83	Photocatalytic hydrogen production under visible-light irradiation on (CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> synthesized by precipitation and calcination. <i>Chinese Journal of Catalysis</i> , <b>2013</b> , 34, 1926-1935	11.3	21
82	Measurement of the surface hydrophobicity of engineered nanoparticles using an atomic force microscope. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24434-24443	3.6	21
81	UV-induced aggregation of polystyrene nanoplastics: effects of radicals, surface functional groups and electrolyte. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3914-3926	7.1	20
80	Functional catalytic membrane development: A review of catalyst coating techniques. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102207	14.3	20
79	Microfabricated interdigitated Au electrode for voltammetric determination of lead and cadmium in Chinese mitten crab ( <i>Eriocheir sinensis</i> ). <i>Food Chemistry</i> , <b>2016</b> , 201, 190-6	8.5	20
78	Organotin Contamination in Sediments and Aquatic Organisms from the Yangtze Estuary and Adjacent Marine Environments. <i>Environmental Engineering Science</i> , <b>2017</b> , 34, 227-235	2	20
77	Microalgae Filtration Using an Electrochemically Reactive Ceramic Membrane: Filtration Performances, Fouling Kinetics, and Foulant Layer Characteristics. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2012-2021	10.3	19
76	Probing the fouling process and mechanisms of submerged ceramic membrane ultrafiltration during algal harvesting under sub- and super-critical fluxes. <i>Separation and Purification Technology</i> , <b>2018</b> , 195, 199-207	8.3	19
75	A portable test strip based on fluorescent europium-based metal-organic framework for rapid and visual detection of tetracycline in food samples. <i>Food Chemistry</i> , <b>2021</b> , 354, 129501	8.5	19
74	Boron-doped graphene nanosheet-supported Pt: a highly active and selective catalyst for low temperature H-SCR. <i>Nanoscale</i> , <b>2018</b> , 10, 10203-10212	7.7	18
73	Preparation of boron nitrogen co-doped carbon quantum dots for rapid detection of Cr(VI). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 243, 118807	4.4	18
72	Photocatalytic oxidation of norfloxacin by ZnFeS supported on Ni-foam under visible light irradiation. <i>Chemosphere</i> , <b>2019</b> , 230, 406-415	8.4	17
71	Enhanced Microalgal Harvesting Using Microalgae-Derived Extracellular Polymeric Substance as Flocculation Aid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4069-4075	8.3	17
70	Polyvinyl chloride (PVC) ultrafiltration membrane fouling and defouling behavior: EDLVO theory and interface adhesion force analysis. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 204-210	9.6	17

69	A ratiometric fluorescence sensor for ultra-sensitive detection of trypsin inhibitor in soybean flour using gold nanocluster@carbon nitride quantum dots. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 3341-3351	4.4	16
68	Adsorption of MS2 on oxide nanoparticles affects chlorine disinfection and solar inactivation. <i>Water Research</i> , <b>2015</b> , 69, 59-67	12.5	16
67	Hydrogen production from organic fatty acids using carbon-doped TiO <sub>2</sub> nanoparticles under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 4335-4346	6.7	16
66	Photocatalytic degradation of rhodamin B and diclofenac sodium on hollow hierarchical microspheres of BiOBr modified with sepiolite and polyvinyl pyrrolidone (PVP). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2019</b> , 244, 12-22	3.1	15
65	Quantum dot binding to DNA: single-molecule imaging with atomic force microscopy. <i>Biotechnology Journal</i> , <b>2013</b> , 8, 110-6	5.6	15
64	Impacts of microplastics on organotins' photodegradation in aquatic environments. <i>Environmental Pollution</i> , <b>2020</b> , 267, 115686	9.3	15
63	A high-performance dual-function material: self-assembled super long $\beta$ -Fe <sub>2</sub> O <sub>3</sub> hollow tubes with multiple heteroatom (C-, N- and S-) doping. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12790-9	4.3	14
62	Efficient photocatalytic H <sub>2</sub> production using visible-light irradiation and (CuAg) <sub>x</sub> In <sub>2-x</sub> Zn <sub>2</sub> (1-x)S <sub>2</sub> photocatalysts with tunable band gaps. <i>International Journal of Energy Research</i> , <b>2014</b> , 38, 1513-1521	4.5	14
61	Roles of Reactive Oxygen Species and Holes in the Photodegradation of Cationic and Anionic Dyes by TiO <sub>2</sub> under UV Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , <b>2016</b> , 142, 04015065	2	13
60	Enhanced degradation of carbamazepine in FeOCl based Photo-Fenton reaction. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104501	6.8	13
59	Characterization of visible-light photo-Fenton reactions using Fe-doped ZnS (Fe-ZnS) mesoporous microspheres. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18601-18609	3.6	13
58	A real-time-range potentiostat coupled to nano-Au-modified microband electrode array for high-speed stripping determination of human blood lead. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 97, 267-272	11.8	12
57	Chemical aging and impacts on hydrophilic and hydrophobic polyether sulfone (PES) membrane filtration performances. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 168, 108960	4.7	12
56	Rapid determination of cadmium in rice using an all-solid RGO-enhanced light addressable potentiometric sensor. <i>Food Chemistry</i> , <b>2018</b> , 261, 1-7	8.5	12
55	Determination of Retrogradation Degree in Starch by Mid-infrared and Raman Spectroscopy during Storage. <i>Food Analytical Methods</i> , <b>2017</b> , 10, 3694-3705	3.4	11
54	Magnetotactic bacteria: Characteristics and environmental applications. <i>Frontiers of Environmental Science and Engineering</i> , <b>2020</b> , 14, 1	5.8	11
53	Experimental determination of conduction and valence bands of semiconductor nanoparticles using Kelvin probe force microscopy. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	11
52	Melt Extrusion for a High Melting Point Compound with Improved Solubility and Sustained Release. <i>AAPS PharmSciTech</i> , <b>2018</b> , 19, 358-370	3.9	10

51	A ECD/MWCNT-modified-microelectrode array for rapid determination of imidacloprid in vegetables. <i>Food Analytical Methods</i> , <b>2019</b> , 12, 2326-2333	3.4	10
50	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> under visible light irradiation. <i>Journal of Renewable and Sustainable Energy</i> , <b>2014</b> , 6, 033131	2.5	10
49	Micrometer-scale light-addressable potentiometric sensor on an optical fiber for biological glucose determination. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1123, 36-43	6.6	10
48	A heuristic and parallel simulated annealing algorithm for variable selection in near-infrared spectroscopy analysis. <i>Journal of Chemometrics</i> , <b>2016</b> , 30, 442-450	1.6	9
47	A ZnO/BGO-modified electrode coupled to microwave digestion for the determination of trace cadmium and lead in six species fish. <i>Analytical Methods</i> , <b>2017</b> , 9, 4418-4424	3.2	9
46	Urgent caution to trace organometal pollution: Occurrence, distribution and sources of methyltins, butyltins and phenyltins in sediments from South Hangzhou Bay, China. <i>Environmental Pollution</i> , <b>2019</b> , 246, 571-577	9.3	8
45	Enhanced Degradation of Sulfamethoxazole (SMX) in Toilet Wastewater by Photo-Fenton Reactive Membrane Filtration. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
44	Influences of microwave irradiation on performances of membrane filtration and catalytic degradation of perfluorooctanoic acid (PFOA). <i>Environment International</i> , <b>2020</b> , 143, 105969	12.9	8
43	An experimental case study on forum-based online teaching to improve student engagement and motivation in higher education. <i>Interactive Learning Environments</i> , <b>2020</b> , 1-12	3.1	8
42	Probing Internal Pressures and Long-Term Stability of Nanobubbles in Water. <i>Langmuir</i> , <b>2021</b> , 37, 2514-2522	2.5	8
41	Rapid detection of cadmium ions in meat by a multi-walled carbon nanotubes enhanced metal-organic framework modified electrochemical sensor. <i>Food Chemistry</i> , <b>2021</b> , 357, 129762	8.5	8
40	UV-C suppression on hazardous metabolites in <i>Microcystis aeruginosa</i> : Unsynchronized production of microcystins and odorous compounds at population and single-cell level. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 359, 281-289	12.8	7
39	Counteranion-dependent sorption of imidazolium- and benzimidazolium-based ionic liquids by soot. <i>Chemosphere</i> , <b>2018</b> , 202, 264-271	8.4	7
38	Recovery of lithium and cobalt from spent Lithium-Ion batteries using organic aqua regia (OAR): Assessment of leaching kinetics and global warming potentials. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 167, 105416	11.9	7
37	In situ immobilization of heavy metals in contaminated sediments by composite additives of hydroxyapatite and oxides. <i>Environmental Earth Sciences</i> , <b>2019</b> , 78, 1	2.9	6
36	One-pot microwave-assisted synthesis of Zn <sub>0.9</sub> Fe <sub>0.1</sub> S photocatalyst and its performance for the removal of bisphenol A. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 356, 665-672	4.7	6
35	Characterization of Citric Acid-Modified Clam Shells and Application for Aqueous Lead (II) Removal. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	6
34	Hyperspectral Imaging Microscopy of Acetaminophen Adsorbed on Multiwalled Carbon Nanotubes. <i>Langmuir</i> , <b>2018</b> , 34, 13210-13218	4	6



33	Facile synthesis of Au@Ag core-shell nanorod with bimetallic synergistic effect for SERS detection of thiabendazole in fruit juice. <i>Food Chemistry</i> , <b>2022</b> , 370, 131276	8.5	6
32	Photocatalytically reductive defluorination of perfluorooctanoic acid (PFOA) using Pt/LaTiO nanoplates: Experimental and DFT assessment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126452	12.8	6
31	Rapid authentication of Indonesian edible bird's nests by near-infrared spectroscopy and chemometrics. <i>Analytical Methods</i> , <b>2017</b> , 9, 1297-1306	3.2	5
30	Arsenic Speciation by Sequential Extraction from As-Fe Precipitates Formed Under Different Coagulation Conditions. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	5
29	Commenting on the effects of surface treated- and non-surface treated TiO(2) in the Caco-2 cell model. <i>Particle and Fibre Toxicology</i> , <b>2012</b> , 9, 42	8.4	5
28	Programmable-Printing Paper-Based Device with a MoS NP and Gmp/Eu-Cit Fluorescence Couple for Ratiometric Tetracycline Analysis in Various Natural Samples. <i>ACS Sensors</i> , <b>2021</b> , 6, 4038-4047	9.2	5
27	Concurrent adsorption and reduction of chromium(VI) to chromium(III) using nitrogen-doped porous carbon adsorbent derived from loofah sponge. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	5
26	Micro-nanobubble aeration promotes senescence of submerged macrophytes with low total antioxidant capacity in urban landscape water. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 523-531	4.2	5
25	Immobilization of Copper from Aqueous Solution and Contaminated Sediment Using Modified Clinoptilolite. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	4
24	Spatiotemporal variation and source apportionment of organotin compounds in sediments in the Yangtze Estuary. <i>Environmental Sciences Europe</i> , <b>2019</b> , 31,	5	4
23	Experimental and computational assessment of 1,4-Dioxane degradation in a photo-Fenton reactive ceramic membrane filtration process. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 1	5.8	4
22	Enhanced Surface Charge Separation Induced by Ag Nanoparticles on WO3 Photoanode for Photoelectrochemical Water Splitting. <i>Chemistry Letters</i> , <b>2020</b> , 49, 741-744	1.7	3
21	Freezing characteristics and relative permittivity of rice flour gel in pulsed electric field assisted freezing. <i>Food Chemistry</i> , <b>2022</b> , 373, 131449	8.5	3
20	Visible light responsive Fe <sub>3</sub> N <sub>2</sub> /nickel foam photocatalyst with enhanced photocatalytic activity and stability. <i>RSC Advances</i> , <b>2016</b> , 6, 93370-93373	3.7	3
19	Ratiometric immunosensor with DNA tetrahedron nanostructure as high-performance carrier of reference signal and its applications in selective phoxim determination for vegetables.. <i>Food Chemistry</i> , <b>2022</b> , 383, 132445	8.5	2
18	Photo(electro)catalytic activity enhancement of PhC2Cu by Fe doping induced energy band modulation and luminescence chromism switching. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 2379-2385	5.5	2
17	Optimization of iron removal in water by nanobubbles using response surface methodology. <i>Water Science and Technology: Water Supply</i> , <b>2021</b> , 21, 1608-1617	1.4	2
16	Conductive Fe <sub>3</sub> O <sub>4</sub> /PANI@PTFE membrane for high thermal efficiency in interfacial induction heating membrane distillation. <i>Nano Energy</i> , <b>2021</b> , 89, 106339	17.1	2

15	Nanobubbles promote nutrient utilization and plant growth in rice by upregulating nutrient uptake genes and stimulating growth hormone production. <i>Science of the Total Environment</i> , <b>2021</b> , 800, 149627	10.2	2
14	ROS-mediated photoaging pathways of nano- and micro-plastic particles under UV irradiation.. <i>Water Research</i> , <b>2022</b> , 216, 118320	12.5	2
13	Refining transfer set in calibration transfer of near infrared spectra by backward refinement of samples. <i>Analytical Methods</i> , <b>2020</b> , 12, 1495-1503	3.2	1
12	A cell-based electrochemical sensor for assessing immunomodulatory effects by atrazine and its metabolites.. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 203, 114015	11.8	1
11	Development of a Novel Metal Grating and Its Applications of Terahertz Spectroscopic Detection of CuSO4 in Fruit. <i>Food Analytical Methods</i> , <b>2021</b> , 14, 1590-1599	3.4	1
10	Ultrasonication-Enhanced Reduction of Tetrabromobisphenol A by Activating Nascent H2 on Raney Ni Catalyst: Kinetics, Mechanisms, and Hydrogenation Pathways. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 884-894		1
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8	Challenges in characterization of nanoplastics in the environment. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	1
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5	Autohydrogenotrophic Denitrification Using the Membrane Biofilm Reactor for Removing Nitrate from High Sulfate Concentration of Water. <i>Archaea</i> , <b>2018</b> , 2018, 9719580	2	0
4	Effect of single atom Platinum (Pt) doping and facet dependent on the electronic structure and light absorption of Lanthanum Titanium Oxide (La2Ti2O7): A Density Functional Theory study. <i>Surface Science</i> , <b>2021</b> , 715, 121949	1.8	0
3	Pulsed distribution of organotins in the turbidity maximum zone of the Yangtze Estuary throughout a tidal cycle.. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 178, 113600	6.7	0
2	Backwashing conditions of novel bio-amended sands and its enhanced filtration efficiency. <i>Toxicological and Environmental Chemistry</i> , <b>2016</b> , 98, 492-499	1.4	
1	Water and nutrients recovery from synthetic source-separated human urine using AGMD. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107176	6.8	