

# Weihua Song

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

5,844  
citations

43  
h-index

75  
g-index

104  
ext. papers

6,971  
ext. citations

9.8  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
103	Photosensitized Transformation of Peroxymonosulfate in Dissolved Organic Matter Solutions under Simulated Solar Irradiation.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	3
102	Abatement of Structurally Diverse Micropollutants by the UV/Permanganate Process: Roles of Hydroxyl Radicals and Reactive Manganese Species. <i>ACS ES&amp;T Water</i> , <b>2022</b> , 2, 593-603		0
101	Determination of trace organic contaminants by a novel mixed-mode online solid-phase extraction coupled to liquid chromatography-tandem mass spectrometry.. <i>Environmental Pollution</i> , <b>2022</b> , 119112	9.3	1
100	Non-targeted analysis for organic components of microplastic leachates. <i>Science of the Total Environment</i> , <b>2021</b> , 816, 151598	10.2	0
99	Photochemical Formation of Methylhydroperoxide in Dissolved Organic Matter Solutions. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 1076-1087	10.3	3
98	Chemical Fingerprinting of HULIS in Particulate Matters Emitted from Residential Coal and Biomass Combustion. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 3593-3603	10.3	13
97	Mechanistic insight into superoxide radical-mediated degradation of carbon tetrachloride in aqueous solution: An in situ spectroscopic and computational study. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128181	14.7	27
96	Microheterogeneous Distribution of Hydroxyl Radicals in Illuminated Dissolved Organic Matter Solutions. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10524-10533	10.3	4
95	Occurrence, distribution, and potential health risks of psychoactive substances in Chinese surface waters. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124851	12.8	4
94	Reevaluation of the contributions of reactive intermediates to the photochemical transformation of 17 $\beta$ -estradiol in sewage effluent. <i>Water Research</i> , <b>2021</b> , 189, 116633	12.5	3
93	Comprehensive Understanding of the Phototransformation Process of Macrolide Antibiotics in Simulated Natural Waters. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 938-948		3
92	Phototransformation of an emerging cyanotoxin (Aerucyclamide A) in simulated natural waters. <i>Water Research</i> , <b>2021</b> , 201, 117339	12.5	2
91	Kinetic Consideration of Photochemical Formation and Decay of Superoxide Radical in Dissolved Organic Matter Solutions. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3199-3208	10.3	25
90	Preparation of mesoporous anatase titania with large secondary mesopores and extraordinarily high photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 269, 118756	21.8	11
89	Triplet Photochemistry of Dissolved Black Carbon and Its Effects on the Photochemical Formation of Reactive Oxygen Species. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 4903-4911	10.3	24
88	Overview of the Phototransformation of Wastewater Effluents by High-Resolution Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 1816-1826	10.3	17
87	Carbonate Radical Oxidation of Cylindrospermopsin (Cyanotoxin): Kinetic Studies and Mechanistic Consideration. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 10118-10127	10.3	13

86	Development of fluorescence surrogates to predict the ferrate(VI) oxidation of pharmaceuticals in wastewater effluents. <i>Water Research</i> , <b>2020</b> , 185, 116256	12.5	7
85	Conventional Disinfection and/or Oxidation Processes for the Destruction of Cyanotoxins/Cyanobacteria <b>2020</b> , 155-171		
84	Assessing the contribution of hydroxylation species in the photochemical transformation of primidone (pharmaceutical). <i>Science of the Total Environment</i> , <b>2019</b> , 696, 133826	10.2	6
83	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 136-145	7.1	8
82	Mesoporous anatase crystal-silica nanocomposites with large intrawall mesopores presenting quite excellent photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 284-295	21.8	16
81	Photochemical oxidation of PPCPs using a combination of solar irradiation and free available chlorine. <i>Science of the Total Environment</i> , <b>2019</b> , 682, 629-638	10.2	26
80	Photochemical formation of carbonate radical and its reaction with dissolved organic matters. <i>Water Research</i> , <b>2019</b> , 161, 288-296	12.5	38
79	Effects of ozone and produced hydroxyl radicals on the transformation of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2484-2494	7.1	13
78	Development of an ammonium chloride-enhanced thermal-assisted-ESI LC-HRMS method for the characterization of chlorinated paraffins. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113303	9.3	7
77	Triplet-State Photochemistry of Dissolved Organic Matter: Triplet-State Energy Distribution and Surface Electric Charge Conditions. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2482-2490	10.3	64
76	Kinetics studies and mechanistic considerations on the reactions of superoxide radical ions with dissolved organic matter. <i>Water Research</i> , <b>2019</b> , 149, 56-64	12.5	32
75	The Multiple Role of Bromide Ion in PPCPs Degradation under UV/Chlorine Treatment. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1806-1816	10.3	92
74	Particle size distribution and respiratory deposition estimates of airborne perfluoroalkyl acids during the haze period in the megacity of Shanghai. <i>Environmental Pollution</i> , <b>2018</b> , 234, 9-19	9.3	22
73	Occurrence and indicators of pharmaceuticals in Chinese streams: A nationwide study. <i>Environmental Pollution</i> , <b>2018</b> , 236, 889-898	9.3	57
72	Comparison of the UV/chlorine and UV/HO processes in the degradation of PPCPs in simulated drinking water and wastewater: Kinetics, radical mechanism and energy requirements. <i>Water Research</i> , <b>2018</b> , 147, 184-194	12.5	147
71	Photoreactivity of graphene oxide in aqueous system: Reactive oxygen species formation and bisphenol A degradation. <i>Chemosphere</i> , <b>2018</b> , 195, 344-350	8.4	27
70	Facet-dependent generation of superoxide radical anions by ZnO nanomaterials under simulated solar light. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2864-2875	7.1	17
69	Occurrence and estrogenic activity of steroid hormones in Chinese streams: A nationwide study based on a combination of chemical and biological tools. <i>Environment International</i> , <b>2018</b> , 118, 1-8	12.9	42

68	Mechanistic consideration of the photochemical transformation of domoic acid (algal toxin) in DOM-Rich brackish water. <i>Chemosphere</i> , <b>2018</b> , 209, 328-337	8.4	6
67	Kinetic Study of Hydroxyl and Sulfate Radical-Mediated Oxidation of Pharmaceuticals in Wastewater Effluents. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2954-2962	10.3	195
66	Ligand-Promoted Photoreductive Dissolution of Goethite by Atmospheric Low-Molecular Dicarboxylates. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 1647-1656	2.8	16
65	Insights into the photo-induced formation of reactive intermediates from effluent organic matter: The role of chemical constituents. <i>Water Research</i> , <b>2017</b> , 112, 120-128	12.5	66
64	Development of Fluorescence Surrogates to Predict the Photochemical Transformation of Pharmaceuticals in Wastewater Effluents. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2738-2747	10.3	36
63	Three-dimensional interconnected mesoporous anatase TiO <sub>2</sub> exhibiting unique photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 293-302	21.8	37
62	UV/chlorine treatment of carbamazepine: Transformation products and their formation kinetics. <i>Water Research</i> , <b>2017</b> , 116, 254-265	12.5	81
61	Photochemical Transformation of Nicotine in Wastewater Effluent. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11718-11730	10.3	28
60	Development of Novel Chemical Probes for Examining Triplet Natural Organic Matter under Solar Illumination. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11066-11074	10.3	28
59	Radical Chemistry and Structural Relationships of PPCP Degradation by UV/Chlorine Treatment in Simulated Drinking Water. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10431-10439	10.3	271
58	Photosensitized degradation of acetaminophen in natural organic matter solutions: The role of triplet states and oxygen. <i>Water Research</i> , <b>2017</b> , 109, 266-273	12.5	70
57	Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of Microcystins: Mechanistic implications. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 199, 33-44	21.8	10
56	Ozonation of Cylindrospermopsin (Cyanotoxin): Degradation Mechanisms and Cytotoxicity Assessments. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1437-46	10.3	26
55	Photochemical Transformation of Aminoglycoside Antibiotics in Simulated Natural Waters. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2921-30	10.3	63
54	Determination of illicit drugs in aqueous environmental samples by online solid-phase extraction coupled to liquid chromatography-tandem mass spectrometry. <i>Chemosphere</i> , <b>2016</b> , 160, 208-15	8.4	26
53	Effects of C on the Photochemical Formation of Reactive Oxygen Species from Natural Organic Matter. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 11742-11751	10.3	18
52	Photocatalytic degradation of three amantadine antiviral drugs as well as their eco-toxicity evolution. <i>Catalysis Today</i> , <b>2015</b> , 258, 602-609	5.3	9
51	Experimental and theoretical studies on aqueous-phase reactivity of hydroxyl radicals with multiple carboxylated and hydroxylated benzene compounds. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 11796-812	3.6	22

50	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antivirus drug acyclovir: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 164, 279-287	21.8	70
49	The roles of halides in the acetaminophen degradation by UV/H <sub>2</sub> O <sub>2</sub> treatment: Kinetics, mechanisms, and products analysis. <i>Chemical Engineering Journal</i> , <b>2015</b> , 271, 214-222	14.7	60
48	Enhancement of the advanced Fenton process by weak magnetic field for the degradation of 4-nitrophenol. <i>RSC Advances</i> , <b>2015</b> , 5, 13357-13365	3.7	37
47	Seasonal and diurnal variations of particulate organosulfates in urban Shanghai, China. <i>Atmospheric Environment</i> , <b>2014</b> , 85, 152-160	5.3	72
46	Photo-transformation of pharmaceutically active compounds in the aqueous environment: a review. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 697-720	4.3	122
45	Photochemically induced formation of reactive oxygen species (ROS) from effluent organic matter. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12645-53	10.3	184
44	Mechanistic considerations of photosensitized transformation of microcystin-LR (cyanobacterial toxin) in aqueous environments. <i>Environmental Pollution</i> , <b>2014</b> , 193, 111-118	9.3	24
43	Removal of emerging pollutants by Ru/TiO <sub>2</sub> -catalyzed permanganate oxidation. <i>Water Research</i> , <b>2014</b> , 63, 262-70	12.5	42
42	Transformation Products of Hazardous Cyanobacterial Metabolites in Water <b>2014</b> , 675-708		1
41	Free radical destruction of haloacetamides in aqueous solution. <i>Water Science and Technology: Water Supply</i> , <b>2014</b> , 14, 212-219	1.4	8
40	Photochemical transformation of terbutaline (pharmaceutical) in simulated natural waters: degradation kinetics and mechanisms. <i>Water Research</i> , <b>2013</b> , 47, 6558-65	12.5	35
39	Radiation chemistry of salicylic and methyl substituted salicylic acids: Models for the radiation chemistry of pharmaceutical compounds. <i>Radiation Physics and Chemistry</i> , <b>2013</b> , 92, 93-98	2.5	11
38	Degradation of diclofenac by advanced oxidation and reduction processes: kinetic studies, degradation pathways and toxicity assessments. <i>Water Research</i> , <b>2013</b> , 47, 1909-18	12.5	208
37	Photochemical fate of beta-blockers in NOM enriched waters. <i>Science of the Total Environment</i> , <b>2012</b> , 426, 289-95	10.2	48
36	Advanced oxidation treatment and photochemical fate of selected antidepressant pharmaceuticals in solutions of Suwannee River humic acid. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 217-218, 382-90	12.8	53
35	Recent advances in structure and reactivity of dissolved organic matter: radiation chemistry of non-isolated natural organic matter and selected model compounds. <i>Water Science and Technology</i> , <b>2012</b> , 66, 1941-9	2.2	8
34	Destruction of microcystins by conventional and advanced oxidation processes: A review. <i>Separation and Purification Technology</i> , <b>2012</b> , 91, 3-17	8.3	156
33	Trimethoprim: kinetic and mechanistic considerations in photochemical environmental fate and AOP treatment. <i>Water Research</i> , <b>2012</b> , 46, 1327-36	12.5	87

32	Hydroxyl radical oxidation of cylindrospermopsin (cyanobacterial toxin) and its role in the photochemical transformation. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 12608-15	10.3	79
31	Photochemical fate of atorvastatin (lipitor) in simulated natural waters. <i>Water Research</i> , <b>2011</b> , 45, 625-31	12.5	58
30	Photosensitized degradation of amoxicillin in natural organic matter isolate solutions. <i>Water Research</i> , <b>2011</b> , 45, 632-8	12.5	185
29	Molecular characterization of effluent organic matter identified by ultrahigh resolution mass spectrometry. <i>Water Research</i> , <b>2011</b> , 45, 2943-53	12.5	161
28	Removal of pharmaceutical and personal care products from reverse osmosis retentate using advanced oxidation processes. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 3665-71	10.3	119
27	Reactivity of aqueous phase hydroxyl radical with halogenated carboxylate anions: experimental and theoretical studies. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6057-65	10.3	32
26	Treatment of statin compounds by advanced oxidation processes: Kinetic considerations and destruction mechanisms. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 453-461	2.5	15
25	Can we effectively degrade microcystins?--Implications on human health. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2011</b> , 11, 19-37	2.2	59
24	Stability of water-stable C60 clusters to OH radical oxidation and hydrated electron reduction. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 3786-92	10.3	27
23	Mechanistic considerations for the advanced oxidation treatment of fluoroquinolone pharmaceutical compounds using TiO <sub>2</sub> heterogeneous catalysis. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 2569-75	2.8	140
22	Degradation of tetracycline antibiotics: Mechanisms and kinetic studies for advanced oxidation/reduction processes. <i>Chemosphere</i> , <b>2010</b> , 78, 533-40	8.4	274
21	Degradation mechanisms and kinetic studies for the treatment of X-ray contrast media compounds by advanced oxidation/reduction processes. <i>Water Research</i> , <b>2010</b> , 44, 4391-8	12.5	103
20	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO <sub>2</sub> : a case of beta-blockers. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 179, 834-9	12.8	153
19	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 94, 288-294	21.8	369
18	Impact of halides on the photobleaching of dissolved organic matter. <i>Marine Chemistry</i> , <b>2009</b> , 115, 134-144	10.3	62
17	Radiolysis studies on the destruction of microcystin-LR in aqueous solution by hydroxyl radicals. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1487-92	10.3	61
16	Free-radical-induced oxidative and reductive degradation of fibrate pharmaceuticals: kinetic studies and degradation mechanisms. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 1287-94	2.8	93
15	Advanced oxidation and reduction process chemistry of methyl tert-butyl ether (MTBE) reaction intermediates in aqueous solution: 2-methoxy-2-methyl-propanal, 2-methoxy-2-methyl-propanol, and 2-methoxy-2-methyl-propanoic acid. <i>Chemosphere</i> , <b>2009</b> , 77, 1352-7	8.4	4

14	Free-radical-induced oxidative and reductive degradation of N,N-diethyl-m-toluamide (DEET): Kinetic studies and degradation pathway. <i>Water Research</i> , <b>2009</b> , 43, 635-42	12.5	67
13	Free-radical-induced oxidative and reductive degradation of fluoroquinolone pharmaceuticals: kinetic studies and degradation mechanism. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 7846-51	2.8	78
12	Free radical destruction of beta-blockers in aqueous solution. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1256-61	10.3	156
11	Free-radical destruction of beta-lactam antibiotics in aqueous solution. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 7411-7	2.8	82
10	Studies in Radiation Chemistry: Application to Ozonation and Other Advanced Oxidation Processes. <i>Ozone: Science and Engineering</i> , <b>2008</b> , 30, 58-64	2.4	18
9	Recent advances in structure and reactivity of dissolved organic matter in natural waters. <i>Water Science and Technology: Water Supply</i> , <b>2008</b> , 8, 615-623	1.4	5
8	Mechanistic study and the influence of oxygen on the photosensitized transformations of microcystins (cyanotoxins). <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 5336-41	10.3	57
7	Degradation of hexachlorobenzene by electron beam irradiation. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 142, 431-6	12.8	21
6	Toxicogenomic evaluation of microcystin-LR treated with ultrasonic irradiation. <i>Toxicology and Applied Pharmacology</i> , <b>2007</b> , 220, 357-64	4.6	45
5	Ultrasonically induced degradation of 2-methylisoborneol and geosmin. <i>Water Research</i> , <b>2007</b> , 41, 2672-82.5	82.5	79
4	Ultrasonically induced degradation of microcystin-LR and -RR: identification of products, effect of pH, formation and destruction of peroxides. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3941-6	10.3	118
3	Ultrasonically induced degradation and detoxification of microcystin-LR (cyanobacterial toxin). <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 6300-5	10.3	91
2	Iron(II)-catalyzed enhancement of ultrasonic-induced degradation of diethylstilbestrol (DES). <i>Catalysis Today</i> , <b>2005</b> , 101, 369-373	5.3	19
1	Reevaluation of the Reactivity of Superoxide Radicals with a Sulfonamide Antibiotic, Sulfacetamide: An Experimental and Theoretical Study. <i>ACS ES&amp;T Water</i> ,		6