

Weihua Song

List of Publications by Citations

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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	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 288-294	21.8	369
102	Degradation of tetracycline antibiotics: Mechanisms and kinetic studies for advanced oxidation/reduction processes. <i>Chemosphere</i> , 2010 , 78, 533-40	8.4	274
101	Radical Chemistry and Structural Relationships of PPCP Degradation by UV/Chlorine Treatment in Simulated Drinking Water. <i>Environmental Science & Technology</i> , 2017 , 51, 10431-10439	10.3	271
100	Degradation of diclofenac by advanced oxidation and reduction processes: kinetic studies, degradation pathways and toxicity assessments. <i>Water Research</i> , 2013 , 47, 1909-18	12.5	208
99	Kinetic Study of Hydroxyl and Sulfate Radical-Mediated Oxidation of Pharmaceuticals in Wastewater Effluents. <i>Environmental Science & Technology</i> , 2017 , 51, 2954-2962	10.3	195
98	Photosensitized degradation of amoxicillin in natural organic matter isolate solutions. <i>Water Research</i> , 2011 , 45, 632-8	12.5	185
97	Photochemically induced formation of reactive oxygen species (ROS) from effluent organic matter. <i>Environmental Science & Technology</i> , 2014 , 48, 12645-53	10.3	184
96	Molecular characterization of effluent organic matter identified by ultrahigh resolution mass spectrometry. <i>Water Research</i> , 2011 , 45, 2943-53	12.5	161
95	Destruction of microcystins by conventional and advanced oxidation processes: A review. <i>Separation and Purification Technology</i> , 2012 , 91, 3-17	8.3	156
94	Free radical destruction of beta-blockers in aqueous solution. <i>Environmental Science & Technology</i> , 2008 , 42, 1256-61	10.3	156
93	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO ₂ : a case of beta-blockers. <i>Journal of Hazardous Materials</i> , 2010 , 179, 834-9	12.8	153
92	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> , 2018 , 147, 184-194	12.5	147
91	Mechanistic considerations for the advanced oxidation treatment of fluoroquinolone pharmaceutical compounds using TiO ₂ heterogeneous catalysis. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2569-75	2.8	140
90	Photo-transformation of pharmaceutically active compounds in the aqueous environment: a review. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 697-720	4.3	122
89	Removal of pharmaceutical and personal care products from reverse osmosis retentate using advanced oxidation processes. <i>Environmental Science & Technology</i> , 2011 , 45, 3665-71	10.3	119
88	Ultrasonically induced degradation of microcystin-LR and -RR: identification of products, effect of pH, formation and destruction of peroxides. <i>Environmental Science & Technology</i> , 2006 , 40, 3941-6	10.3	118
87	Degradation mechanisms and kinetic studies for the treatment of X-ray contrast media compounds by advanced oxidation/reduction processes. <i>Water Research</i> , 2010 , 44, 4391-8	12.5	103

86	Free-radical-induced oxidative and reductive degradation of fibrate pharmaceuticals: kinetic studies and degradation mechanisms. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1287-94	2.8	93
85	The Multiple Role of Bromide Ion in PPCPs Degradation under UV/Chlorine Treatment. <i>Environmental Science & Technology</i> , 2018 , 52, 1806-1816	10.3	92
84	Ultrasonically induced degradation and detoxification of microcystin-LR (cyanobacterial toxin). <i>Environmental Science & Technology</i> , 2005 , 39, 6300-5	10.3	91
83	Trimethoprim: kinetic and mechanistic considerations in photochemical environmental fate and AOP treatment. <i>Water Research</i> , 2012 , 46, 1327-36	12.5	87
82	Free-radical destruction of beta-lactam antibiotics in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7411-7	2.8	82
81	UV/chlorine treatment of carbamazepine: Transformation products and their formation kinetics. <i>Water Research</i> , 2017 , 116, 254-265	12.5	81
80	Hydroxyl radical oxidation of cylindrospermopsin (cyanobacterial toxin) and its role in the photochemical transformation. <i>Environmental Science & Technology</i> , 2012 , 46, 12608-15	10.3	79
79	Ultrasonically induced degradation of 2-methylisoborneol and geosmin. <i>Water Research</i> , 2007 , 41, 2672-82.5	12.5	79
78	Free-radical-induced oxidative and reductive degradation of fluoroquinolone pharmaceuticals: kinetic studies and degradation mechanism. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7846-51	2.8	78
77	Seasonal and diurnal variations of particulate organosulfates in urban Shanghai, China. <i>Atmospheric Environment</i> , 2014 , 85, 152-160	5.3	72
76	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antiviral drug acyclovir: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 279-287	21.8	70
75	Photosensitized degradation of acetaminophen in natural organic matter solutions: The role of triplet states and oxygen. <i>Water Research</i> , 2017 , 109, 266-273	12.5	70
74	Free-radical-induced oxidative and reductive degradation of N,N-diethyl-m-toluamide (DEET): Kinetic studies and degradation pathway. <i>Water Research</i> , 2009 , 43, 635-42	12.5	67
73	Insights into the photo-induced formation of reactive intermediates from effluent organic matter: The role of chemical constituents. <i>Water Research</i> , 2017 , 112, 120-128	12.5	66
72	Triplet-State Photochemistry of Dissolved Organic Matter: Triplet-State Energy Distribution and Surface Electric Charge Conditions. <i>Environmental Science & Technology</i> , 2019 , 53, 2482-2490	10.3	64
71	Photochemical Transformation of Aminoglycoside Antibiotics in Simulated Natural Waters. <i>Environmental Science & Technology</i> , 2016 , 50, 2921-30	10.3	63
70	Impact of halides on the photobleaching of dissolved organic matter. <i>Marine Chemistry</i> , 2009 , 115, 134-144	14.4	62
69	Radiolysis studies on the destruction of microcystin-LR in aqueous solution by hydroxyl radicals. <i>Environmental Science & Technology</i> , 2009 , 43, 1487-92	10.3	61

68	The roles of halides in the acetaminophen degradation by UV/H ₂ O ₂ treatment: Kinetics, mechanisms, and products analysis. <i>Chemical Engineering Journal</i> , 2015 , 271, 214-222	14.7	60
67	Can we effectively degrade microcystins?--Implications on human health. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2011 , 11, 19-37	2.2	59
66	Photochemical fate of atorvastatin (lipitor) in simulated natural waters. <i>Water Research</i> , 2011 , 45, 625-312.5	12.5	58
65	Occurrence and indicators of pharmaceuticals in Chinese streams: A nationwide study. <i>Environmental Pollution</i> , 2018 , 236, 889-898	9.3	57
64	Mechanistic study and the influence of oxygen on the photosensitized transformations of microcystins (cyanotoxins). <i>Environmental Science & Technology</i> , 2007 , 41, 5336-41	10.3	57
63	Advanced oxidation treatment and photochemical fate of selected antidepressant pharmaceuticals in solutions of Suwannee River humic acid. <i>Journal of Hazardous Materials</i> , 2012 , 217-218, 382-90	12.8	53
62	Photochemical fate of beta-blockers in NOM enriched waters. <i>Science of the Total Environment</i> , 2012 , 426, 289-95	10.2	48
61	Toxicogenomic evaluation of microcystin-LR treated with ultrasonic irradiation. <i>Toxicology and Applied Pharmacology</i> , 2007 , 220, 357-64	4.6	45
60	Removal of emerging pollutants by Ru/TiO ₂ -catalyzed permanganate oxidation. <i>Water Research</i> , 2014 , 63, 262-70	12.5	42
59	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> , 2018 , 118, 1-8	12.9	42
58	Photochemical formation of carbonate radical and its reaction with dissolved organic matters. <i>Water Research</i> , 2019 , 161, 288-296	12.5	38
57	Three-dimensional interconnected mesoporous anatase TiO ₂ exhibiting unique photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 293-302	21.8	37
56	Enhancement of the advanced Fenton process by weak magnetic field for the degradation of 4-nitrophenol. <i>RSC Advances</i> , 2015 , 5, 13357-13365	3.7	37
55	Development of Fluorescence Surrogates to Predict the Photochemical Transformation of Pharmaceuticals in Wastewater Effluents. <i>Environmental Science & Technology</i> , 2017 , 51, 2738-2747 ^{10.3}	10.3	36
54	Photochemical transformation of terbutaline (pharmaceutical) in simulated natural waters: degradation kinetics and mechanisms. <i>Water Research</i> , 2013 , 47, 6558-65	12.5	35
53	Reactivity of aqueous phase hydroxyl radical with halogenated carboxylate anions: experimental and theoretical studies. <i>Environmental Science & Technology</i> , 2011 , 45, 6057-65	10.3	32
52	Kinetics studies and mechanistic considerations on the reactions of superoxide radical ions with dissolved organic matter. <i>Water Research</i> , 2019 , 149, 56-64	12.5	32
51	Photochemical Transformation of Nicotine in Wastewater Effluent. <i>Environmental Science & Technology</i> , 2017 , 51, 11718-11730	10.3	28

50	Development of Novel Chemical Probes for Examining Triplet Natural Organic Matter under Solar Illumination. <i>Environmental Science & Technology</i> , 2017 , 51, 11066-11074	10.3	28
49	Stability of water-stable C60 clusters to OH radical oxidation and hydrated electron reduction. <i>Environmental Science & Technology</i> , 2010 , 44, 3786-92	10.3	27
48	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> , 2021 , 410, 128181	14.7	27
47	Photoreactivity of graphene oxide in aqueous system: Reactive oxygen species formation and bisphenol A degradation. <i>Chemosphere</i> , 2018 , 195, 344-350	8.4	27
46	Photochemical oxidation of PPCPs using a combination of solar irradiation and free available chlorine. <i>Science of the Total Environment</i> , 2019 , 682, 629-638	10.2	26
45	Ozonation of Cylindrospermopsin (Cyanotoxin): Degradation Mechanisms and Cytotoxicity Assessments. <i>Environmental Science & Technology</i> , 2016 , 50, 1437-46	10.3	26
44	Determination of illicit drugs in aqueous environmental samples by online solid-phase extraction coupled to liquid chromatography-tandem mass spectrometry. <i>Chemosphere</i> , 2016 , 160, 208-15	8.4	26
43	Kinetic Consideration of Photochemical Formation and Decay of Superoxide Radical in Dissolved Organic Matter Solutions. <i>Environmental Science & Technology</i> , 2020 , 54, 3199-3208	10.3	25
42	Triplet Photochemistry of Dissolved Black Carbon and Its Effects on the Photochemical Formation of Reactive Oxygen Species. <i>Environmental Science & Technology</i> , 2020 , 54, 4903-4911	10.3	24
41	Mechanistic considerations of photosensitized transformation of microcystin-LR (cyanobacterial toxin) in aqueous environments. <i>Environmental Pollution</i> , 2014 , 193, 111-118	9.3	24
40	Experimental and theoretical studies on aqueous-phase reactivity of hydroxyl radicals with multiple carboxylated and hydroxylated benzene compounds. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11796-812	3.6	22
39	Particle size distribution and respiratory deposition estimates of airborne perfluoroalkyl acids during the haze period in the megacity of Shanghai. <i>Environmental Pollution</i> , 2018 , 234, 9-19	9.3	22
38	Degradation of hexachlorobenzene by electron beam irradiation. <i>Journal of Hazardous Materials</i> , 2007 , 142, 431-6	12.8	21
37	Iron(II)-catalyzed enhancement of ultrasonic-induced degradation of diethylstilbestrol (DES). <i>Catalysis Today</i> , 2005 , 101, 369-373	5.3	19
36	Studies in Radiation Chemistry: Application to Ozonation and Other Advanced Oxidation Processes. <i>Ozone: Science and Engineering</i> , 2008 , 30, 58-64	2.4	18
35	Effects of C on the Photochemical Formation of Reactive Oxygen Species from Natural Organic Matter. <i>Environmental Science & Technology</i> , 2016 , 50, 11742-11751	10.3	18
34	Overview of the Phototransformation of Wastewater Effluents by High-Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2020 , 54, 1816-1826	10.3	17
33	Facet-dependent generation of superoxide radical anions by ZnO nanomaterials under simulated solar light. <i>Environmental Science: Nano</i> , 2018 , 5, 2864-2875	7.1	17

32	Ligand-Promoted Photoreductive Dissolution of Goethite by Atmospheric Low-Molecular Dicarboxylates. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1647-1656	2.8	16
31	Mesoporous anatase crystal-silica nanocomposites with large intrawall mesopores presenting quite excellent photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 284-295	21.8	16
30	Treatment of statin compounds by advanced oxidation processes: Kinetic considerations and destruction mechanisms. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 453-461	2.5	15
29	Effects of ozone and produced hydroxyl radicals on the transformation of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , 2019 , 6, 2484-2494	7.1	13
28	Carbonate Radical Oxidation of Cyindrospermopsin (Cyanotoxin): Kinetic Studies and Mechanistic Consideration. <i>Environmental Science & Technology</i> , 2020 , 54, 10118-10127	10.3	13
27	Chemical Fingerprinting of HULIS in Particulate Matters Emitted from Residential Coal and Biomass Combustion. <i>Environmental Science & Technology</i> , 2021 , 55, 3593-3603	10.3	13
26	Preparation of mesoporous anatase titania with large secondary mesopores and extraordinarily high photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118756	21.8	11
25	Radiation chemistry of salicylic and methyl substituted salicylic acids: Models for the radiation chemistry of pharmaceutical compounds. <i>Radiation Physics and Chemistry</i> , 2013 , 92, 93-98	2.5	11
24	Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of Microcystins: Mechanistic implications. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 33-44	21.8	10
23	Photocatalytic degradation of three amantadine antiviral drugs as well as their eco-toxicity evolution. <i>Catalysis Today</i> , 2015 , 258, 602-609	5.3	9
22	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. <i>Environmental Science: Nano</i> , 2019 , 6, 136-145	7.1	8
21	Free radical destruction of haloacetamides in aqueous solution. <i>Water Science and Technology: Water Supply</i> , 2014 , 14, 212-219	1.4	8
20	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> , 2012 , 66, 1941-9	2.2	8
19	Development of an ammonium chloride-enhanced thermal-assisted-ESI LC-HRMS method for the characterization of chlorinated paraffins. <i>Environmental Pollution</i> , 2019 , 255, 113303	9.3	7
18	Development of fluorescence surrogates to predict the ferrate(VI) oxidation of pharmaceuticals in wastewater effluents. <i>Water Research</i> , 2020 , 185, 116256	12.5	7
17	Assessing the contribution of hydroxylation species in the photochemical transformation of primidone (pharmaceutical). <i>Science of the Total Environment</i> , 2019 , 696, 133826	10.2	6
16	Reevaluation of the Reactivity of Superoxide Radicals with a Sulfonamide Antibiotic, Sulfacetamide: An Experimental and Theoretical Study. <i>ACS ES&T Water</i> ,		6
15	Mechanistic consideration of the photochemical transformation of domoic acid (algal toxin) in DOM-Rich brackish water. <i>Chemosphere</i> , 2018 , 209, 328-337	8.4	6

14	Recent advances in structure and reactivity of dissolved organic matter in natural waters. <i>Water Science and Technology: Water Supply</i> , 2008 , 8, 615-623	1.4	5
13	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> , 2009 , 77, 1352-7	8.4	4
12	Microheterogeneous Distribution of Hydroxyl Radicals in Illuminated Dissolved Organic Matter Solutions. <i>Environmental Science & Technology</i> , 2021 , 55, 10524-10533	10.3	4
11	Occurrence, distribution, and potential health risks of psychoactive substances in Chinese surface waters. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124851	12.8	4
10	Photosensitized Transformation of Peroxymonosulfate in Dissolved Organic Matter Solutions under Simulated Solar Irradiation.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
9	Photochemical Formation of Methylhydroperoxide in Dissolved Organic Matter Solutions. <i>Environmental Science & Technology</i> , 2021 , 55, 1076-1087	10.3	3
8	Reevaluation of the contributions of reactive intermediates to the photochemical transformation of 17 β -estradiol in sewage effluent. <i>Water Research</i> , 2021 , 189, 116633	12.5	3
7	Comprehensive Understanding of the Phototransformation Process of Macrolide Antibiotics in Simulated Natural Waters. <i>ACS ES&T Water</i> , 2021 , 1, 938-948		3
6	Phototransformation of an emerging cyanotoxin (Aerucyclamide A) in simulated natural waters. <i>Water Research</i> , 2021 , 201, 117339	12.5	2
5	Transformation Products of Hazardous Cyanobacterial Metabolites in Water 2014 , 675-708		1
4	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> , 2022 , 119112	9.3	1
3	Non-targeted analysis for organic components of microplastic leachates. <i>Science of the Total Environment</i> , 2021 , 816, 151598	10.2	0
2	Abatement of Structurally Diverse Micropollutants by the UV/Permanganate Process: Roles of Hydroxyl Radicals and Reactive Manganese Species. <i>ACS ES&T Water</i> , 2022 , 2, 593-603		0
1	Conventional Disinfection and/or Oxidation Processes for the Destruction of Cyanotoxins/Cyanobacteria 2020 , 155-171		