

Qianyuan Wu

List of Publications by Year in descending order

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110
papers

4,466
citations

109264

35
h-index

123376

61
g-index

113
all docs

113
docs citations

113
times ranked

3335
citing authors

#	ARTICLE	IF	CITATIONS
1	Photolysis of free chlorine and production of reactive radicals in the UV/chlorine system using polychromatic spectrum LEDs as UV sources. <i>Chemosphere</i> , 2022, 286, 131828.	4.2	11
2	Promotive effects of vacuum-UV/UV (185/254Ånm) light on elimination of recalcitrant trace organic contaminants by UV-AOPs during wastewater treatment and reclamation: A review. <i>Science of the Total Environment</i> , 2022, 818, 151776.	3.9	18
3	Novel chlorinated disinfection byproducts from tannic acid: nontargeted identification, formation pathways, and computationally predicted toxicity. <i>Journal of Hazardous Materials</i> , 2022, 425, 127827.	6.5	10
4	Elimination of amino trimethylene phosphonic acid (ATMP) antiscalant in reverse osmosis concentrate using ozone: Anti-precipitation property changes and phosphorus removal. <i>Chemosphere</i> , 2022, 291, 133027.	4.2	14
5	Synergistic effects of ozone/peroxymonosulfate for isothiazolinone biocides degradation: Kinetics, synergistic performance and influencing factors. <i>Environmental Pollution</i> , 2022, 294, 118626.	3.7	18
6	NiMoFe nanoparticles@MoO ₂ nano-pillar arrays as bifunctional electrodes for ultra-low-voltage overall water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3760-3770.	5.2	22
7	Effects of chlorine dose on the composition and characteristics of chlorinated disinfection byproducts in reclaimed water. <i>Science of the Total Environment</i> , 2022, 824, 153739.	3.9	11
8	Removal of disinfection byproducts and toxicity of chlorinated water by post-treatments of ultraviolet/hydrogen peroxide and ultraviolet/peroxymonosulfate. <i>Journal of Cleaner Production</i> , 2022, 352, 131563.	4.6	14
9	Characteristics of the formation and toxicity index of nine newly identified brominated disinfection byproducts during wastewater ozonation. <i>Science of the Total Environment</i> , 2022, 824, 153924.	3.9	6
10	Evolution of low molecular weight organic compounds during ultrapure water production process: A pilot-scale study. <i>Science of the Total Environment</i> , 2022, 830, 154713.	3.9	16
11	Advanced oxidation of dodecyl dimethyl benzyl ammonium chloride by VUV/UV/chlorine: Synergistic effect, radicals, and degradation pathway. <i>Separation and Purification Technology</i> , 2022, 292, 121012.	3.9	4
12	Removal of methylisothiazolinone biocide from wastewater by VUV/UV advanced oxidation process: Kinetics, mechanisms and toxicity. <i>Journal of Environmental Management</i> , 2022, 315, 115107.	3.8	8
13	Degradation of chloromethylisothiazolinone antimicrobial by Vacuum-Ultraviolet/Ultraviolet irradiation: Reactive species, degradation pathway and toxicity evaluation. <i>Chemosphere</i> , 2022, 302, 134821.	4.2	1
14	Ozonation of phosphonate antiscalant 1-hydroxyethane-1,1-diphosphonic acid in reverse osmosis concentrate: Kinetics, phosphorus transformation, and anti-precipitation property changes. <i>Separation and Purification Technology</i> , 2022, 297, 121385.	3.9	7
15	Essential role of sunlight irradiation in aqueous micropollutant transformations: influence of the water matrix and changes in toxicities. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1619-1638.	1.2	1
16	A feasible approach for azo dye degradation using natural magnetite in heterogeneous Fenton oxidation. <i>Water Cycle</i> , 2022, 3, 100-105.	2.1	5
17	Transformation of dissolved organic matter during biological wastewater treatment and relationships with the formation of nitrogenous disinfection byproducts. <i>Water Research</i> , 2022, 222, 118870.	5.3	20
18	Tracing nitrogenous byproducts during ozonation in the presence of bromide and ammonia using stable isotope labeling and high resolution mass spectrometry. <i>Journal of Hazardous Materials</i> , 2021, 403, 123612.	6.5	12

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19	Comprehensive GC \bar{A} –GC-qMS with a mass-to-charge ratio difference extraction method to identify new brominated byproducts during ozonation and their toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021, 403, 124103.	6.5	18
20	Study on synergistic effect of ozone and monochloramine on the degradation of chloromethylisothiazolinone biocide. <i>Science of the Total Environment</i> , 2021, 754, 141598.	3.9	8
21	Surrogates for on-line monitoring of the attenuation of trace organic contaminants during advanced oxidation processes for water reuse. <i>Water Research</i> , 2021, 190, 116733.	5.3	24
22	Combination of high resolution mass spectrometry and a halogen extraction code to identify chlorinated disinfection byproducts formed from aromatic amino acids. <i>Water Research</i> , 2021, 190, 116710.	5.3	21
23	Applications of UV/H ₂ O ₂ , UV/persulfate, and UV/persulfate/Cu ²⁺ for the elimination of reverse osmosis concentrate generated from municipal wastewater reclamation treatment plant: Toxicity, transformation products, and disinfection byproducts. <i>Science of the Total Environment</i> , 2021, 762, 144161.	3.9	16
24	Formation of nitro(so) and chlorinated products and toxicity alteration during the UV/monochloramine treatment of phenol. <i>Water Research</i> , 2021, 194, 116914.	5.3	56
25	Degradation of atrazine (ATZ) by ammonia/chlorine synergistic oxidation process. <i>Chemical Engineering Journal</i> , 2021, 415, 128841.	6.6	22
26	Toxicity of Ozonated Wastewater to HepG2 Cells: Taking Full Account of Nonvolatile, Volatile, and Inorganic Byproducts. <i>Environmental Science & Technology</i> , 2021, 55, 10597-10607.	4.6	24
27	Nontargeted identification of chlorinated disinfection byproducts formed from natural organic matter using Orbitrap mass spectrometry and a halogen extraction code. <i>Journal of Hazardous Materials</i> , 2021, 416, 126198.	6.5	22
28	Species and formation characteristics of halogenated DBPs in chloramination of tannic acid after biodegradation. <i>Science of the Total Environment</i> , 2021, 781, 146690.	3.9	8
29	The promotions on radical formation and micropollutant degradation by the synergies between ozone and chemical reagents (synergistic ozonation): A review. <i>Journal of Hazardous Materials</i> , 2021, 418, 126327.	6.5	38
30	Reduction of cytotoxicity and DNA double-strand break effects of wastewater by ferrate(VI): Roles of oxidation and coagulation. <i>Water Research</i> , 2021, 205, 117667.	5.3	18
31	Combining high resolution mass spectrometry with a halogen extraction code to characterize and identify brominated disinfection byproducts formed during ozonation. <i>Science of the Total Environment</i> , 2021, 796, 149016.	3.9	9
32	Characterization of the transformation of natural organic matter and disinfection byproducts after chlorination, ultraviolet irradiation and ultraviolet irradiation/chlorination treatment. <i>Chemical Engineering Journal</i> , 2021, 426, 131916.	6.6	32
33	Removing chlorinated haloacetaldehydes from drinking water by household heating devices with and without chlorine: Efficiency, influencing factors, and mechanisms. <i>Chemosphere</i> , 2021, 284, 131202.	4.2	7
34	Understanding the influence of pre-ozonation on the formation of disinfection byproducts and cytotoxicity during post-chlorination of natural organic matter: UV absorbance and electron-donating-moiety of molecular weight fractions. <i>Environment International</i> , 2021, 157, 106793.	4.8	14
35	UV-LED/P25-based photocatalysis for effective degradation of isothiazolone biocide. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	11
36	A study of synergistic oxidation between ozone and chlorine on benzalkonium chloride degradation: Reactive species and degradation pathway. <i>Chemical Engineering Journal</i> , 2020, 382, 122856.	6.6	35

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37	Ammonia/chlorine synergistic oxidation process applied to the removal of N, N-diethyl-3-toluamide. <i>Chemical Engineering Journal</i> , 2020, 380, 122409.	6.6	11
38	Enhancement effect among a UV, persulfate, and copper (UV/PS/Cu ²⁺) system on the degradation of nonoxidizing biocide: The kinetics, radical species, and degradation pathway. <i>Chemical Engineering Journal</i> , 2020, 382, 122312.	6.6	32
39	Chlorinated effluent organic matter causes higher toxicity than chlorinated natural organic matter by inducing more intracellular reactive oxygen species. <i>Science of the Total Environment</i> , 2020, 701, 134881.	3.9	23
40	Developing an equivalent toxicity area approach to comparing toxicity of urban road deposited sediments. <i>Environmental Pollution</i> , 2020, 257, 113588.	3.7	6
41	Identification of important precursors and theoretical toxicity evaluation of byproducts driving cytotoxicity and genotoxicity in chlorination. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	13
42	Elimination of isothiazolinone biocides in reverse osmosis concentrate by ozonation: A two-phase kinetics and a non-linear surrogate model. <i>Journal of Hazardous Materials</i> , 2020, 389, 121898.	6.5	16
43	Surrogates for the removal by ozonation of the cytotoxicity and DNA double-strand break effects of wastewater on mammalian cells. <i>Environment International</i> , 2020, 135, 105369.	4.8	15
44	Degradation of methylisothiazolinone biocide using a carbon fiber felt-based flow-through electrode system (FES) via anodic oxidation. <i>Chemical Engineering Journal</i> , 2020, 384, 123239.	6.6	33
45	Toxicity variability of urban road stormwater during storage processes in Shenzhen, China: Identification of primary toxicity contributors and implications for reuse safety. <i>Science of the Total Environment</i> , 2020, 745, 140964.	3.9	11
46	Ammonia-Mediated Bromate Inhibition during Ozonation Promotes the Toxicity Due to Organic Byproduct Transformation. <i>Environmental Science & Technology</i> , 2020, 54, 8926-8937.	4.6	26
47	High-loaded single Cu atoms decorated on N-doped graphene for boosting Fenton-like catalysis under neutral pH. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13685-13693.	5.2	104
48	Non-volatile disinfection byproducts are far more toxic to mammalian cells than volatile byproducts. <i>Water Research</i> , 2020, 183, 116080.	5.3	35
49	Characterizing the molecular weight distribution of dissolved organic matter by measuring the contents of electron-donating moieties, UV absorbance, and fluorescence intensity. <i>Environment International</i> , 2020, 137, 105570.	4.8	38
50	Comparison of UV/H ₂ O ₂ and UV/PS processes for the treatment of reverse osmosis concentrate from municipal wastewater reclamation. <i>Chemical Engineering Journal</i> , 2020, 388, 124260.	6.6	25
51	Graphene oxide enhanced ozonation of 5-chloro-2-methyl-4-isothiazolin-3-one: Kinetics, degradation pathway, and toxicity. <i>Journal of Hazardous Materials</i> , 2020, 394, 122563.	6.5	23
52	Degradation of non-oxidizing biocide benzalkonium chloride and bulk dissolved organic matter in reverse osmosis concentrate by UV/chlorine oxidation. <i>Journal of Hazardous Materials</i> , 2020, 396, 122669.	6.5	11
53	Disinfection byproducts and their toxicity in wastewater effluents treated by the mixing oxidant of ClO ₂ /Cl ₂ . <i>Water Research</i> , 2019, 162, 471-481.	5.3	70
54	Influence of UV irradiation on the toxicity of chlorinated water to mammalian cells: Toxicity drivers, toxicity changes and toxicity surrogates. <i>Water Research</i> , 2019, 165, 115024.	5.3	19

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55	Combination of catalytic ozonation by regenerated granular activated carbon (rGAC) and biological activated carbon in the advanced treatment of textile wastewater for reclamation. <i>Chemosphere</i> , 2019, 231, 369-377.	4.2	30
56	Underestimated risk from ozonation of wastewater containing bromide: Both organic byproducts and bromate contributed to the toxicity increase. <i>Water Research</i> , 2019, 162, 43-52.	5.3	121
57	The influence of the UV/chlorine advanced oxidation of natural organic matter for micropollutant degradation on the formation of DBPs and toxicity during post-chlorination. <i>Chemical Engineering Journal</i> , 2019, 373, 870-879.	6.6	50
58	Meteorological factors and water quality changes of Plateau Lake Dianchi in China (1990–2015) and their joint influences on cyanobacterial blooms. <i>Science of the Total Environment</i> , 2019, 665, 406-418.	3.9	72
59	UV/chlorine oxidation of the phosphonate antiscalant 1-Hydroxyethane-1, 1-diphosphonic acid (HEDP) used for reverse osmosis processes: Organic phosphorus removal and scale inhibition properties changes. <i>Journal of Environmental Management</i> , 2019, 237, 180-186.	3.8	34
60	Inhibition of bromate formation by reduced graphene oxide supported cerium dioxide during ozonation of bromide-containing water. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	11
61	Advanced treatment of bio-treated dyeing and finishing wastewater using ozone-biological activated carbon: A study on the synergistic effects. <i>Chemical Engineering Journal</i> , 2019, 359, 168-175.	6.6	53
62	2-Phosphonobutane-1,2,4-tricarboxylic acid (PBTCA) degradation by ozonation: Kinetics, phosphorus transformation, anti-precipitation property changes and phosphorus removal. <i>Water Research</i> , 2019, 148, 334-343.	5.3	43
63	The application of UV/PS oxidation for removal of a quaternary ammonium compound of dodecyl trimethyl ammonium chloride (DTAC): The kinetics and mechanism. <i>Science of the Total Environment</i> , 2019, 655, 1261-1269.	3.9	28
64	Sub-chronic inhalation of reclaimed water-induced fibrotic lesion in a mouse model. <i>Water Research</i> , 2018, 139, 240-251.	5.3	15
65	Assimilable organic carbon (AOC) variation in reclaimed water: Insight on biological stability evaluation and control for sustainable water reuse. <i>Bioresource Technology</i> , 2018, 254, 290-299.	4.8	37
66	Elimination of chlorine-refractory carbamazepine by breakpoint chlorination: Reactive species and oxidation byproducts. <i>Water Research</i> , 2018, 129, 115-122.	5.3	43
67	Adsorption of Isothiazolone Biocides in Textile Reverse Osmosis Concentrate by Powdered Activated Carbon. <i>Water (Switzerland)</i> , 2018, 10, 532.	1.2	4
68	Sustainability evaluation and implication of a large scale membrane bioreactor plant. <i>Bioresource Technology</i> , 2018, 269, 246-254.	4.8	25
69	Potential risks from UV/H ₂ O ₂ oxidation and UV photocatalysis: A review of toxic, assimilable, and sensory-unpleasant transformation products. <i>Water Research</i> , 2018, 141, 109-125.	5.3	132
70	Degradation of dodecyl dimethyl benzyl ammonium chloride (DDBAC) as a non-oxidizing biocide in reverse osmosis system using UV/persulfate: Kinetics, degradation pathways, and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2018, 352, 283-292.	6.6	39
71	Synergistic effect of combined UV-LED and chlorine treatment on <i>Bacillus subtilis</i> spore inactivation. <i>Science of the Total Environment</i> , 2018, 639, 1233-1240.	3.9	81
72	Exposure to solar light reduces cytotoxicity of sewage effluents to mammalian cells: Roles of reactive oxygen and nitrogen species. <i>Water Research</i> , 2018, 143, 570-578.	5.3	27

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73	Electron donating capacity reduction of dissolved organic matter by solar irradiation reduces the cytotoxicity formation potential during wastewater chlorination. <i>Water Research</i> , 2018, 145, 94-102.	5.3	45
74	Formation and control of disinfection byproducts and toxicity during reclaimed water chlorination: A review. <i>Journal of Environmental Sciences</i> , 2017, 58, 51-63.	3.2	176
75	UV/chlorine as an advanced oxidation process for the degradation of benzalkonium chloride: Synergistic effect, transformation products and toxicity evaluation. <i>Water Research</i> , 2017, 114, 246-253.	5.3	112
76	Degradation of polyvinyl alcohol (PVA) by UV/chlorine oxidation: Radical roles, influencing factors, and degradation pathway. <i>Water Research</i> , 2017, 124, 381-387.	5.3	107
77	Promoted ozonation for the decomposition of 1,4-dioxane by activated carbon. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 613-620.	1.0	11
78	Increase of cytotoxicity during wastewater chlorination: Impact factors and surrogates. <i>Journal of Hazardous Materials</i> , 2017, 324, 681-690.	6.5	69
79	Solar light irradiation significantly reduced cytotoxicity and disinfection byproducts in chlorinated reclaimed water. <i>Water Research</i> , 2017, 125, 162-169.	5.3	43
80	Transformation of DON in reclaimed water under solar light irradiation leads to decreased haloacetamide formation potential during chloramination. <i>Journal of Hazardous Materials</i> , 2017, 340, 319-325.	6.5	12
81	Self-sensitized photodegradation of benzisothiazolinone by low-pressure UV-C irradiation: Kinetics, mechanisms, and the effect of media. <i>Separation and Purification Technology</i> , 2017, 189, 419-424.	3.9	8
82	Development of an ATP luminescence-based method for assimilable organic carbon determination in reclaimed water. <i>Water Research</i> , 2017, 123, 345-352.	5.3	17
83	Light-emitting diodes as an emerging UV source for UV/chlorine oxidation: Carbamazepine degradation and toxicity changes. <i>Chemical Engineering Journal</i> , 2017, 310, 148-156.	6.6	87
84	Centralized water reuse system with multiple applications in urban areas: Lessons from China's experience. <i>Resources, Conservation and Recycling</i> , 2017, 117, 125-136.	5.3	74
85	Degradation of natural organic matter by UV/chlorine oxidation: Molecular decomposition, formation of oxidation byproducts and cytotoxicity. <i>Water Research</i> , 2017, 124, 251-258.	5.3	137
86	Characteristics of water quality of municipal wastewater treatment plants in China: implications for resources utilization and management. <i>Journal of Cleaner Production</i> , 2016, 131, 1-9.	4.6	289
87	Elimination of disinfection byproduct formation potential in reclaimed water during solar light irradiation. <i>Water Research</i> , 2016, 95, 260-267.	5.3	36
88	Synergistic effect between UV and chlorine (UV/chlorine) on the degradation of carbamazepine: Influence factors and radical species. <i>Water Research</i> , 2016, 98, 190-198.	5.3	331
89	Study on the removal of benzisothiazolinone biocide and its toxicity: The effectiveness of ozonation. <i>Chemical Engineering Journal</i> , 2016, 300, 376-383.	6.6	44
90	Effective degradation of methylisothiazolone biocide using ozone: Kinetics, mechanisms, and decreases in toxicity. <i>Journal of Environmental Management</i> , 2016, 183, 1064-1071.	3.8	31

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91	Ozone/graphene oxide catalytic oxidation: a novel method to degrade emerging organic contaminant N, N-diethyl-m-toluamide (DEET). <i>Scientific Reports</i> , 2016, 6, 31405.	1.6	23
92	Removal of fluorescence and ultraviolet absorbance of dissolved organic matter in reclaimed water by solar light. <i>Journal of Environmental Sciences</i> , 2016, 43, 118-127.	3.2	24
93	Formation of haloacetonitriles and haloacetamides and their precursors during chlorination of secondary effluents. <i>Chemosphere</i> , 2016, 144, 297-303.	4.2	35
94	Differences in dissolved organic matter between reclaimed water source and drinking water source. <i>Science of the Total Environment</i> , 2016, 551-552, 133-142.	3.9	102
95	Removal of C.I. Reactive Red 2 by low pressure UV/chlorine advanced oxidation. <i>Journal of Environmental Sciences</i> , 2016, 41, 227-234.	3.2	24
96	Photocatalytic degradation of the antiviral drug Tamiflu by UV-A/TiO ₂ : Kinetics and mechanisms. <i>Chemosphere</i> , 2015, 131, 41-47.	4.2	26
97	Evidence of ATP assay as an appropriate alternative of MTT assay for cytotoxicity of secondary effluents from WWTPs. <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 490-496.	2.9	38
98	Adsorption removal of antiviral drug oseltamivir and its metabolite oseltamivir carboxylate by carbon nanotubes: Effects of carbon nanotube properties and media. <i>Journal of Environmental Management</i> , 2015, 162, 326-333.	3.8	23
99	Enhanced decomposition of 1,4-dioxane in water by ozonation under alkaline condition. <i>Water Science and Technology</i> , 2014, 70, 1934-1940.	1.2	16
100	Transformation of anti-estrogenic-activity related dissolved organic matter in secondary effluents during ozonation. <i>Water Research</i> , 2014, 48, 605-612.	5.3	42
101	Effects of chemical agent injections on genotoxicity of wastewater in a microfiltration-reverse osmosis membrane process for wastewater reuse. <i>Journal of Hazardous Materials</i> , 2013, 260, 231-237.	6.5	45
102	Removal of Endocrine-Disrupting Compounds, Estrogenic Activity, and <i>Escherichia coliform</i> from Secondary Effluents in a TiO ₂ -Coated Photocatalytic Reactor. <i>Environmental Engineering Science</i> , 2012, 29, 195-201.	0.8	35
103	Dichloroacetonitrile and Dichloroacetamide Can Form Independently during Chlorination and Chloramination of Drinking Waters, Model Organic Matters, and Wastewater Effluents. <i>Environmental Science & Technology</i> , 2012, 46, 10624-10631.	4.6	150
104	Removal of genotoxicity in chlorinated secondary effluent of a domestic wastewater treatment plant during dechlorination. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1-7.	2.7	21
105	Effects of chlorination on the properties of dissolved organic matter and its genotoxicity in secondary sewage effluent under two different ammonium concentrations. <i>Chemosphere</i> , 2010, 80, 941-946.	4.2	51
106	Reduced Effect of Bromide on the Genotoxicity in Secondary Effluent of a Municipal Wastewater Treatment Plant during Chlorination. <i>Environmental Science & Technology</i> , 2010, 44, 4924-4929.	4.6	41
107	Characterization and identification of antiestrogenic products of phenylalanine chlorination. <i>Water Research</i> , 2010, 44, 3625-3634.	5.3	26
108	Effect of Chlorination on the Estrogenic/Antiestrogenic Activities of Biologically Treated Wastewater. <i>Environmental Science & Technology</i> , 2009, 43, 4940-4945.	4.6	73

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109	Effect of bromide on the formation of disinfection by-products during wastewater chlorination. <i>Water Research</i> , 2009, 43, 2391-2398.	5.3	101
110	Improvement of detection method of <i>Cryptosporidium</i> and <i>Giardia</i> in reclaimed water. <i>Frontiers of Environmental Science and Engineering in China</i> , 2008, 2, 380-384.	0.8	3