

Wen-Long Wang

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,750
citations

201575

27
h-index

189801

50
g-index

70
all docs

70
docs citations

70
times ranked

2431
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Comparison of UV-LED and low pressure UV for water disinfection: Photoreactivation and dark repair of <i>Escherichia coli</i> . <i>Water Research</i> , 2017, 126, 134-143.	5.3	199
3	Photolysis of Enrofloxacin in aqueous systems under simulated sunlight irradiation: Kinetics, mechanism and toxicity of photolysis products. <i>Chemosphere</i> , 2011, 85, 892-897.	4.2	138
4	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
5	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
6	Light-source-dependent role of nitrate and humic acid in tetracycline photolysis: Kinetics and mechanism. <i>Chemosphere</i> , 2013, 92, 1423-1429.	4.2	131
7	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
8	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
9	Photocatalytic degradation kinetics and mechanism of pentachlorophenol based on Superoxide radicals. <i>Journal of Environmental Sciences</i> , 2011, 23, 1911-1918.	3.2	88
10	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
11	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
12	High-valent iron-oxo species mediated cyclic oxidation through single-atom Fe-N ₆ sites with high peroxymonosulfate utilization rate. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121049.	10.8	48
13	Health risk assessment of phthalate esters (PAEs) in drinking water sources of China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3620-3630.	2.7	46
14	Elimination of chlorine-refractory carbamazepine by breakpoint chlorination: Reactive species and oxidation byproducts. <i>Water Research</i> , 2018, 129, 115-122.	5.3	43
15	2-Phosphonobutane-1,2,4-tricarboxylic acid (PBTC) degradation by ozonation: Kinetics, phosphorus transformation, anti-precipitation property changes and phosphorus removal. <i>Water Research</i> , 2019, 148, 334-343.	5.3	43
16	Comparison of carbonized and graphitized carbon fiber electrodes under flow-through electrode system (FES) for high-efficiency bacterial inactivation. <i>Water Research</i> , 2020, 168, 115150.	5.3	40
17	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
18	Enhanced attached growth of microalgae <i>Scenedesmus</i> . LX1 through ambient bacterial pre-coating of cotton fiber carriers. <i>Bioresource Technology</i> , 2016, 218, 643-649.	4.8	38

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19	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
20	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
21	Elimination of disinfection byproduct formation potential in reclaimed water during solar light irradiation. <i>Water Research</i> , 2016, 95, 260-267.	5.3	36
22	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
23	Non-volatile disinfection byproducts are far more toxic to mammalian cells than volatile byproducts. <i>Water Research</i> , 2020, 183, 116080.	5.3	35
24	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
25	Low-voltage alternating current powered polydopamine-protected copper phosphide nanowire for electroporation-disinfection in water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7347-7354.	5.2	33
26	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
27	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
28	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
29	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
30	Matrix-enhanced adsorption removal of trace BPA by controlling the interlayer hydrophobic environment of montmorillonite. <i>Applied Clay Science</i> , 2015, 104, 81-87.	2.6	26
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	Degradation of atrazine (ATZ) by ammonia/chlorine synergistic oxidation process. <i>Chemical Engineering Journal</i> , 2021, 415, 128841.	6.6	22
41	Comprehensive GC-MS 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
42	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
43	Promotive effects of vacuum-UV/UV (185/254nm) 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
44	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
45	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
46	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
47	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
48	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
49	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
50	Enhancing disinfection performance of the carbon fiber-based flow-through electrode system (FES) by alternating pulse current (APC) with low-frequency square wave. <i>Chemical Engineering Journal</i> , 2021, 410, 128399.	6.6	14
51	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
52	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
53	Mechanism and kinetics of methylisothiazolinone removal by cultivation of <i>Scenedesmus</i> sp. LX1. <i>Journal of Hazardous Materials</i> , 2020, 386, 121959.	6.5	12
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	Comparison of disinfection-residual-bacteria (DRB) after seven different kinds of disinfection: Biofilm formation, membrane fouling and mechanisms. <i>Science of the Total Environment</i> , 2022, 844, 157079.	3.9	7
62	Application of quantum chemical descriptors into quantitative structure-property relationship models for prediction of the photolysis half-life of PCBs in water. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 505-511.	0.8	6
63	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
64	Adsorption of Isothiazolone Biocides in Textile Reverse Osmosis Concentrate by Powdered Activated Carbon. <i>Water (Switzerland)</i> , 2018, 10, 532.	1.2	4
65	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
66	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
67	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
68	Reply to Comment on "Photolysis of Enrofloxacin in aqueous systems under simulated sunlight irradiation: Kinetics, mechanism and toxicity of photolysis products" [Li et al., <i>Chemosphere</i> 85 (2011) 892-897]. <i>Chemosphere</i> , 2013, 92, 1581-1584.	4.2	0