

Chii Shang

List of Publications by Year in descending order

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88
papers

7,430
citations

57758

44
h-index

53230

85
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all docs

88
docs citations

88
times ranked

4520
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible light-driven g-C ₃ N ₄ peroxymonosulfate activation process for carbamazepine degradation: Activation mechanism and matrix effects. <i>Chemosphere</i> , 2022, 286, 131906.	8.2	22
2	Sequential ClO ₂ -UV/chlorine process for micropollutant removal and disinfection byproduct control. <i>Science of the Total Environment</i> , 2022, 806, 150354.	8.0	9
3	A Novel UVA/ClO ₂ Advanced Oxidation Process for the Degradation of Micropollutants in Water. <i>Environmental Science & Technology</i> , 2022, 56, 1257-1266.	10.0	40
4	Concentration-dependent chloride effect on radical distribution and micropollutant degradation in the sulfate radical-based AOPs. <i>Journal of Hazardous Materials</i> , 2022, 430, 128450.	12.4	32
5	Dosing low-level ferrous iron in coagulation enhances the removal of micropollutants, chlorite and chlorate during advanced water treatment. <i>Journal of Environmental Sciences</i> , 2022, 117, 119-128.	6.1	9
6	Multi-angle comparison of UV/chlorine, UV/monochloramine, and UV/chlorine dioxide processes for water treatment and reuse. <i>Water Research</i> , 2022, 217, 118414.	11.3	32
7	ClO ₂ pre-oxidation changes dissolved organic matter at the molecular level and reduces chloro-organic byproducts and toxicity of water treated by the UV/chlorine process. <i>Water Research</i> , 2022, 216, 118341.	11.3	15
8	Effects of operating conditions on disinfection by-product formation, calculated toxicity, and changes in organic matter structures during seawater chlorination. <i>Water Research</i> , 2022, 220, 118631.	11.3	2
9	Revisiting the protocol for determining submicromolar concentrations of ozone in the water treated by advanced oxidation processes. <i>Chemosphere</i> , 2022, 303, 135117.	8.2	3
10	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.	11.3	20
11	Molecular characterization of transformation and halogenation of natural organic matter during the UV/chlorine AOP using FT-ICR mass spectrometry. <i>Journal of Environmental Sciences</i> , 2021, 102, 24-36.	6.1	49
12	The multiple roles of chlorite on the concentrations of radicals and ozone and formation of chlorate during UV photolysis of free chlorine. <i>Water Research</i> , 2021, 190, 116680.	11.3	36
13	New Insights into Micropollutant Abatement in Ammonia-Containing Water by the UV/Breakpoint Chlorination Process. <i>ACS ES&T Water</i> , 2021, 1, 1025-1034.	4.6	10
14	What Water Professionals Should Know about Antibiotics and Antibiotic Resistance: An Overview. <i>ACS ES&T Water</i> , 2021, 1, 1334-1351.	4.6	37
15	Evanescence waves modulate energy efficiency of photocatalysis within TiO ₂ coated optical fibers illuminated using LEDs. <i>Nature Communications</i> , 2021, 12, 4101.	12.8	28
16	Near-Ultraviolet Light-Driven Photocatalytic Chlorine Activation Process with Novel Chlorine Activation Mechanisms. <i>ACS ES&T Water</i> , 2021, 1, 2067-2075.	4.6	15
17	Simultaneous removal of hydrogen sulfide, phosphate and emerging organic contaminants, and improvement of sludge dewaterability by oxidant dosing in sulfide-iron-laden sludge. <i>Water Research</i> , 2021, 203, 117557.	11.3	14
18	Micropollutant abatement and byproduct formation during the co-exposure of chlorine dioxide (ClO ₂) and UVC radiation. <i>Journal of Hazardous Materials</i> , 2021, 419, 126424.	12.4	25

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19	A review on the degradation efficiency, DBP formation, and toxicity variation in the UV/chlorine treatment of micropollutants. <i>Chemical Engineering Journal</i> , 2021, 424, 130053.	12.7	91
20	Microbial iron reduction enhances in-situ control of biogenic hydrogen sulfide by FeOOH granules in sediments of polluted urban waters. <i>Water Research</i> , 2020, 171, 115453.	11.3	21
21	Influence of the UV/H ₂ O ₂ Advanced Oxidation Process on Dissolved Organic Matter and the Connection between Elemental Composition and Disinfection Byproduct Formation. <i>Environmental Science & Technology</i> , 2020, 54, 14964-14973.	10.0	60
22	Degradation of aliphatic halogenated contaminants in water by UVA/Cu ²⁺ /TiO ₂ and UVA/TiO ₂ photocatalytic processes: Structure-activity relationship and role of reactive species. <i>Chemosphere</i> , 2020, 260, 127644.	8.2	7
23	Removal of micropollutants in drinking water using UV-LED/chlorine advanced oxidation process followed by activated carbon adsorption. <i>Water Research</i> , 2020, 185, 116297.	11.3	53
24	Novel Visible Light-Driven Photocatalytic Chlorine Activation Process for Carbamazepine Degradation in Drinking Water. <i>Environmental Science & Technology</i> , 2020, 54, 11584-11593.	10.0	79
25	Rapid degradation of dichloroacetonitrile by hydrated electron (e ^{aq-}) produced in vacuum ultraviolet photolysis. <i>Chemosphere</i> , 2020, 256, 126994.	8.2	23
26	UV Photolysis of Mono- and Dichloramine Using UV-LEDs as Radiation Sources: Photodecay Rates and Radical Concentrations. <i>Environmental Science & Technology</i> , 2020, 54, 8420-8429.	10.0	74
27	Influence of pre-ozonation of DOM on micropollutant abatement by UV-based advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2020, 391, 122201.	12.4	23
28	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.	11.3	70
29	Transformation of adenine and cytosine in chlorination – An ESI-tqMS investigation. <i>Chemosphere</i> , 2019, 234, 505-512.	8.2	12
30	Oxidative debromination of 2,2-bis(bromomethyl)-1,3-propanediol by UV/persulfate process and corresponding formation of brominated by-products. <i>Chemosphere</i> , 2019, 228, 735-743.	8.2	19
31	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.	12.7	50
32	Controlling bromate formation in the Co(II)/peroxymonosulfate process by ammonia, chlorine-ammonia and ammonia-chlorine pretreatment strategies. <i>Water Research</i> , 2018, 139, 220-227.	11.3	30
33	The Multiple Role of Bromide Ion in PPCPs Degradation under UV/Chlorine Treatment. <i>Environmental Science & Technology</i> , 2018, 52, 1806-1816.	10.0	157
34	Recycling and reuse of rusted iron particles containing core-shell Fe-FeOOH for ibuprofen removal: Adsorption and persulfate-based advanced oxidation. <i>Journal of Cleaner Production</i> , 2018, 178, 441-448.	9.3	86
35	Enhanced photocatalytic reduction of chromium (VI) by Cu-doped TiO ₂ under UV-A irradiation. <i>Separation and Purification Technology</i> , 2018, 190, 53-59.	7.9	48
36	The fate of dichloroacetonitrile in UV/Cl ₂ and UV/H ₂ O ₂ processes: implications on potable water reuse. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1295-1302.	2.4	23

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37	A modified method of high molecular weight adsorbable organic chlorine measurement in saline water: Dialysis pretreatment. <i>Science of the Total Environment</i> , 2018, 639, 258-262.	8.0	5
38	Wavelength-dependent chlorine photolysis and subsequent radical production using UV-LEDs as light sources. <i>Water Research</i> , 2018, 142, 452-458.	11.3	98
39	Degradation Investigation of Selected Taste and Odor Compounds by a UV/Chlorine Advanced Oxidation Process. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 284.	2.6	21
40	Bromate formation from the oxidation of bromide in the UV/chlorine process with low pressure and medium pressure UV lamps. <i>Chemosphere</i> , 2017, 183, 582-588.	8.2	72
41	UV/chlorine treatment of carbamazepine: Transformation products and their formation kinetics. <i>Water Research</i> , 2017, 116, 254-265.	11.3	125
42	Degradation kinetics and pathways of haloacetonitriles by the UV/persulfate process. <i>Chemical Engineering Journal</i> , 2017, 320, 478-484.	12.7	57
43	Coupling Light Emitting Diodes with Photocatalyst-Coated Optical Fibers Improves Quantum Yield of Pollutant Oxidation. <i>Environmental Science & Technology</i> , 2017, 51, 13319-13326.	10.0	39
44	Factors affecting the roles of reactive species in the degradation of micropollutants by the UV/chlorine process. <i>Water Research</i> , 2017, 126, 351-360.	11.3	263
45	A Fe(II)/citrate/UV/PMS process for carbamazepine degradation at a very low Fe(II)/PMS ratio and neutral pH: The mechanisms. <i>Water Research</i> , 2017, 124, 446-453.	11.3	147
46	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.	10.0	449
47	DBP formation from degradation of DEET and ibuprofen by UV/chlorine process and subsequent post-chlorination. <i>Journal of Environmental Sciences</i> , 2017, 58, 146-154.	6.1	33
48	A novel Fe(II)/citrate/UV/peroxymonosulfate process for micropollutant degradation: Optimization by response surface methodology and effects of water matrices. <i>Chemosphere</i> , 2017, 184, 417-428.	8.2	24
49	Laboratory study investigating the regeneration potential of iron particles by and the hydrodynamics of a dam-break generated flow from an infinite reservoir into a channel with an adverse slope. <i>Environmental Fluid Mechanics</i> , 2016, 16, 1043-1064.	1.6	0
50	PPCP degradation by UV/chlorine treatment and its impact on DBP formation potential in real waters. <i>Water Research</i> , 2016, 98, 309-318.	11.3	186
51	Kinetics and mechanisms of degradation of chloroacetonitriles by the UV/H ₂ O ₂ process. <i>Water Research</i> , 2016, 99, 209-215.	11.3	25
52	Roles of reactive chlorine species in trimethoprim degradation in the UV/chlorine process: Kinetics and transformation pathways. <i>Water Research</i> , 2016, 104, 272-282.	11.3	267
53	Oxidative degradation of N-Nitrosopyrrolidine by the ozone/UV process: Kinetics and pathways. <i>Chemosphere</i> , 2016, 150, 731-739.	8.2	26
54	Kinetics and pathways of ibuprofen degradation by the UV/chlorine advanced oxidation process. <i>Water Research</i> , 2016, 90, 301-308.	11.3	351

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55	Bromate formation in bromide-containing water through the cobalt-mediated activation of peroxymonosulfate. <i>Water Research</i> , 2015, 83, 132-140.	11.3	103
56	<i>E. coli</i> and bacteriophage MS2 disinfection by UV, ozone and the combined UV and ozone processes. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 547-552.	6.0	41
57	The Roles of Reactive Species in Micropollutant Degradation in the UV/Free Chlorine System. <i>Environmental Science & Technology</i> , 2014, 48, 1859-1868.	10.0	774
58	Removal of aqueous hydrogen sulfide by granular ferric hydroxide—Kinetics, capacity and reuse. <i>Chemosphere</i> , 2014, 117, 324-329.	8.2	35
59	Electrospray Ionization-Tandem Mass Spectrometry Method for Differentiating Chlorine Substitution in Disinfection Byproduct Formation. <i>Environmental Science & Technology</i> , 2014, 48, 4877-4884.	10.0	29
60	Removal of aqueous fullerene C_{60} from wastewater by alum-enhanced primary treatment. <i>Separation and Purification Technology</i> , 2013, 116, 61-66.	7.9	13
61	Kinetics and mechanisms of pH-dependent degradation of halonitromethanes by UV photolysis. <i>Water Research</i> , 2013, 47, 1257-1266.	11.3	73
62	Bromate Formation from Bromide Oxidation by the UV/Persulfate Process. <i>Environmental Science & Technology</i> , 2012, 46, 8976-8983.	10.0	256
63	Nitrogen Origins and the Role of Ozonation in the Formation of Haloacetonitriles and Halonitromethanes in Chlorine Water Treatment. <i>Environmental Science & Technology</i> , 2012, 46, 12832-12838.	10.0	41
64	Formation of halogenated organic byproducts during medium-pressure UV and chlorine coexposure of model compounds, NOM and bromide. <i>Water Research</i> , 2011, 45, 6545-6554.	11.3	76
65	Effect of Reductive Property of Activated Carbon on Total Organic Halogen Analysis. <i>Environmental Science & Technology</i> , 2010, 44, 2105-2111.	10.0	62
66	Formation of carbonaceous and nitrogenous disinfection by-products from the chlorination of <i>Microcystis aeruginosa</i> . <i>Water Research</i> , 2010, 44, 1934-1940.	11.3	252
67	Nitrogenous disinfection byproducts formation and nitrogen origin exploration during chloramination of nitrogenous organic compounds. <i>Water Research</i> , 2010, 44, 2691-2702.	11.3	148
68	Characterization of algal organic matter and formation of DBPs from chlor(am)ination. <i>Water Research</i> , 2010, 44, 5897-5906.	11.3	327
69	Effect of Fe(III) on the bromate reduction by humic substances in aqueous solution. <i>Journal of Environmental Sciences</i> , 2008, 20, 257-261.	6.1	24
70	Correlations between organic matter properties and DBP formation during chloramination. <i>Water Research</i> , 2008, 42, 2329-2339.	11.3	132
71	Factors affecting formation of haloacetonitriles, haloketones, chloropicrin and cyanogen halides during chloramination. <i>Water Research</i> , 2007, 41, 1193-1200.	11.3	229
72	Comparison of colorimetric and membrane introduction mass spectrometry techniques for chloramine analysis. <i>Water Research</i> , 2007, 41, 3097-3102.	11.3	62

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73	MS2 Coliphage Inactivation with UV Irradiation and Free Chlorine/Monochloramine. <i>Environmental Engineering Science</i> , 2007, 24, 1321-1332.	1.6	36
74	ATR-FTIR and XPS study on the structure of complexes formed upon the adsorption of simple organic acids on aluminum hydroxide. <i>Journal of Environmental Sciences</i> , 2007, 19, 438-443.	6.1	154
75	THM, HAA and CNCl formation from UV irradiation and chlor(am)ination of selected organic waters. <i>Water Research</i> , 2006, 40, 2033-2043.	11.3	105
76	ATR-FTIR investigation on the complexation of myo-inositol hexaphosphate with aluminum hydroxide. <i>Journal of Colloid and Interface Science</i> , 2006, 293, 296-302.	9.4	81
77	Surface complexation of condensed phosphate to aluminum hydroxide: An ATR-FTIR spectroscopic investigation. <i>Journal of Colloid and Interface Science</i> , 2005, 289, 319-327.	9.4	79
78	Factors Affecting Inactivation Behavior in the Monochloramination Range. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 119-129.	1.4	6
79	Role of Humic Acid and Quinone Model Compounds in Bromate Reduction by Zerovalent Iron. <i>Environmental Science & Technology</i> , 2005, 39, 1092-1100.	10.0	143
80	Quantification of aqueous cyanogen chloride and cyanogen bromide in environmental samples by MIMS. <i>Water Research</i> , 2005, 39, 1709-1718.	11.3	37
81	Kinetics of cyanogen chloride destruction by chemical reduction methods. <i>Water Research</i> , 2005, 39, 2114-2124.	11.3	12
82	Bacteriophage MS-2 removal by submerged membrane bioreactor. <i>Water Research</i> , 2005, 39, 4211-4219.	11.3	60
83	DBP formation in breakpoint chlorination of wastewater. <i>Water Research</i> , 2005, 39, 4755-4767.	11.3	110
84	Chlorination Byproduct Formation in the Presence of Humic Acid, Model Nitrogenous Organic Compounds, Ammonia, and Bromide. <i>Environmental Science & Technology</i> , 2004, 38, 4995-5001.	10.0	113
85	Formation of haloacetic acids during monochloramination. <i>Water Research</i> , 2004, 38, 2375-2383.	11.3	50
86	Chlorination of pure bacterial cultures in aqueous solution. <i>Water Research</i> , 2001, 35, 244-254.	11.3	45
87	Breakpoint Chemistry and Volatile Byproduct Formation Resulting from Chlorination of Model Organic-N Compounds. <i>Environmental Science & Technology</i> , 2000, 34, 1721-1728.	10.0	77
88	Differentiation and Quantification of Free Chlorine and Inorganic Chloramines in Aqueous Solution by MIMS. <i>Environmental Science & Technology</i> , 1999, 33, 2218-2223.	10.0	133