

Huichun Zhang

List of Publications by Citations

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Version: 2024-04-28

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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.

76
papers

2,196
citations

23
h-index

45
g-index

80
ext. papers

2,981
ext. citations

9.7
avg, IF

5.95
L-index

#	Paper	IF	Citations
76	Oxidative transformation of triclosan and chlorophene by manganese oxides. <i>Environmental Science & Technology</i> , 2003 , 37, 2421-30	10.3	290
75	Oxidative transformation of fluoroquinolone antibacterial agents and structurally related amines by manganese oxide. <i>Environmental Science & Technology</i> , 2005 , 39, 4474-83	10.3	244
74	Kinetic modeling of oxidation of antibacterial agents by manganese oxide. <i>Environmental Science & Technology</i> , 2008 , 42, 5548-54	10.3	152
73	Adsorption and oxidation of fluoroquinolone antibacterial agents and structurally related amines with goethite. <i>Chemosphere</i> , 2007 , 66, 1502-12	8.4	128
72	Effect of MnO Phase Structure on the Oxidative Reactivity toward Bisphenol A Degradation. <i>Environmental Science & Technology</i> , 2018 , 52, 11309-11318	10.3	107
71	Effects of MnO ₂ of different structures on activation of peroxymonosulfate for bisphenol A degradation under acidic conditions. <i>Chemical Engineering Journal</i> , 2019 , 370, 906-915	14.7	98
70	Mn-based catalysts for sulfate radical-based advanced oxidation processes: A review. <i>Environment International</i> , 2019 , 133, 105141	12.9	94
69	Direct Electron-Transfer-Based Peroxymonosulfate Activation by Iron-Doped Manganese Oxide (EMnO) and the Development of Galvanic Oxidation Processes (GOPs). <i>Environmental Science & Technology</i> , 2019 , 53, 12610-12620	10.3	82
68	Reactivity and transformation of antibacterial N-oxides in the presence of manganese oxide. <i>Environmental Science & Technology</i> , 2005 , 39, 593-601	10.3	70
67	Contamination of Phthalate Esters in Vegetable Agriculture and Human Cumulative Risk Assessment. <i>Pedosphere</i> , 2017 , 27, 439-451	5	50
66	Predicting Aqueous Adsorption of Organic Compounds onto Biochars, Carbon Nanotubes, Granular Activated Carbons, and Resins with Machine Learning. <i>Environmental Science & Technology</i> , 2020 , 54, 7008-7018	10.3	42
65	Spectroscopic Investigation of Interfacial Interaction of Manganese Oxide with Triclosan, Aniline, and Phenol. <i>Environmental Science & Technology</i> , 2016 , 50, 10978-10987	10.3	42
64	Development of palladium-resin composites for catalytic hydrodechlorination of 4-chlorophenol. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 576-586	21.8	40
63	Elucidating the role of electron shuttles in reductive transformations in anaerobic sediments. <i>Environmental Science & Technology</i> , 2009 , 43, 1042-8	10.3	37
62	Fe(II) Redox Chemistry in the Environment. <i>Chemical Reviews</i> , 2021 , 121, 8161-8233	68.1	37
61	Reaction mechanism and kinetic modeling of DEET degradation by flow-through anodic fenton treatment (FAFT). <i>Environmental Science & Technology</i> , 2006 , 40, 4488-94	10.3	34
60	Interactions in Ternary Mixtures of MnO ₂ , Al ₂ O ₃ , and Natural Organic Matter (NOM) and the Impact on MnO ₂ Oxidative Reactivity. <i>Environmental Science & Technology</i> , 2016 , 50, 2345-53	10.3	33

59	Highly sensitive electrochemical analysis of tunnel structured MnO ₂ nanoparticle-based sensors on the oxidation of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 746-750	8.5	33
58	Degradation of methyl tertiary-butyl ether (MTBE) by anodic Fenton treatment. <i>Journal of Hazardous Materials</i> , 2007 , 144, 29-40	12.8	32
57	A deep neural network combined with molecular fingerprints (DNN-MF) to develop predictive models for hydroxyl radical rate constants of water contaminants. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121141	12.8	32
56	Impact of interactions between metal oxides to oxidative reactivity of manganese dioxide. <i>Environmental Science & Technology</i> , 2012 , 46, 2764-71	10.3	28
55	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. <i>Environmental Science & Technology</i> , 2021 , 55, 12741-12754	10.3	26
54	Catalytic reduction of 4-nitrophenol by palladium-resin composites. <i>Applied Catalysis A: General</i> , 2017 , 543, 209-217	5.1	24
53	Identifying indicators of reactivity for chemical reductants in sediments. <i>Environmental Science & Technology</i> , 2013 , 47, 6959-68	10.3	23
52	Interaction Mechanisms and Predictive Model for the Sorption of Aromatic Compounds onto Nonionic Resins. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17707-17715	3.8	23
51	A modified Polanyi-based model for mechanistic understanding of adsorption of phenolic compounds onto polymeric adsorbents. <i>Environmental Science & Technology</i> , 2012 , 46, 6806-14	10.3	22
50	Spatial heterogeneity modeling of water quality based on random forest regression and model interpretation. <i>Environmental Research</i> , 2021 , 202, 111660	7.9	21
49	Understanding and modeling removal of anionic organic contaminants (AOCs) by anion exchange resins. <i>Environmental Science & Technology</i> , 2014 , 48, 7494-502	10.3	20
48	Effects of NOM on oxidative reactivity of manganese dioxide in binary oxide mixtures with goethite or hematite. <i>Langmuir</i> , 2015 , 31, 2790-9	4	20
47	An improved weighted index for the assessment of heavy metal pollution in soils in Zhejiang, China. <i>Environmental Research</i> , 2021 , 192, 110246	7.9	20
46	New insight into the reactivity of Mn(III) in bisulfite/permanganate for organic compounds oxidation: The catalytic role of bisulfite and oxygen. <i>Water Research</i> , 2019 , 148, 198-207	12.5	17
45	Shedding light on Black Box machine learning models for predicting the reactivity of HO radicals toward organic compounds. <i>Chemical Engineering Journal</i> , 2021 , 405, 126627	14.7	17
44	Redox reactions of iron and manganese oxides in complex systems. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	16
43	Molecular image-convolutional neural network (CNN) assisted QSAR models for predicting contaminant reactivity toward OH radicals: Transfer learning, data augmentation and model interpretation. <i>Chemical Engineering Journal</i> , 2021 , 408, 127998	14.7	16
42	Roles of oxygen and Mn (IV) oxide in abiotic formation of humic substances by oxidative polymerization of polyphenol and amino acid. <i>Chemical Engineering Journal</i> , 2020 , 393, 124734	14.7	15

41	Stability of hydrous ferric oxide nanoparticles encapsulated inside porous matrices: Effect of solution and matrix phase. <i>Chemical Engineering Journal</i> , 2018 , 347, 870-876	14.7	15
40	A generalized predictive model for TiO-Catalyzed photo-degradation rate constants of water contaminants through artificial neural network. <i>Environmental Research</i> , 2020 , 187, 109697	7.9	11
39	Complexation facilitated reduction of aromatic N-oxides by aqueous Fe(II)-tiron complex: reaction kinetics and mechanisms. <i>Environmental Science & Technology</i> , 2013 , 47, 11023-31	10.3	11
38	Evaluation of the performance of flow-through anodic fenton treatment in amide compound degradation. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 4073-9	5.7	11
37	Ecological risk potential assessment of heavy metal contaminated soils in Ophiolitic formations. <i>Environmental Research</i> , 2021 , 192, 110305	7.9	11
36	Experimental and Computational Evidence for the Reduction Mechanisms of Aromatic N-oxides by Aqueous Fe(II)-Tiron Complex. <i>Environmental Science & Technology</i> , 2016 , 50, 249-58	10.3	10
35	Reconstruction of adsorption potential in Polanyi-based models and application to various adsorbents. <i>Environmental Science & Technology</i> , 2014 , 48, 6772-9	10.3	10
34	Sorption mechanism and predictive models for removal of cationic organic contaminants by cation exchange resins. <i>Environmental Science & Technology</i> , 2014 , 48, 14572-81	10.3	10
33	Mn(III)-ligand complexes as a catalyst in ligand-assisted oxidation of substituted phenols by permanganate in aqueous solution. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121401	12.8	10
32	Predicting Heavy Metal Adsorption on Soil with Machine Learning and Mapping Global Distribution of Soil Adsorption Capacities. <i>Environmental Science & Technology</i> , 2021 , 55, 14316-14328	10.3	8
31	Quantitative structure activity relationships (QSARs) and machine learning models for abiotic reduction of organic compounds by an aqueous Fe(II) complex. <i>Water Research</i> , 2021 , 192, 116843	12.5	8
30	Determining and forecasting drought susceptibility in southwestern Iran using multi-criteria decision-making (MCDM) coupled with CA-Markov model. <i>Science of the Total Environment</i> , 2021 , 781, 146703	10.2	8
29	Oxidant or catalyst for oxidation? The role of manganese oxides in the activation of peroxymonosulfate (PMS). <i>Frontiers of Environmental Science and Engineering</i> , 2019 , 13, 1	5.8	7
28	Surveying Manganese Oxides as Electrode Materials for Harnessing Salinity Gradient Energy. <i>Environmental Science & Technology</i> , 2020 , 54, 5746-5754	10.3	7
27	Reduction of nitrogen-oxygen containing compounds (NOCs) by surface-associated Fe(II) and comparison with soluble Fe(II) complexes. <i>Chemical Engineering Journal</i> , 2019 , 370, 782-791	14.7	6
26	Effects of Second Metal Oxides on Surface-Mediated Reduction of Contaminants by Fe(II) with Iron Oxide. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 680-687	3.2	6
25	Highly Efficient Bromide Removal from Shale Gas Produced Water by Unactivated Peroxymonosulfate for Controlling Disinfection Byproduct Formation in Impacted Water Supplies. <i>Environmental Science & Technology</i> , 2020 , 54, 5186-5196	10.3	6
24	Reduction of isoxazoles including sulfamethoxazole by aqueous Fe(II)-iron complex: Impact of structures. <i>Chemical Engineering Journal</i> , 2018 , 352, 501-509	14.7	6

23	Significant Effect of Evaporation Process on the Reaction of Sulfamethoxazole with Manganese Oxide. <i>Environmental Science & Technology</i> , 2020 , 54, 4856-4864	10.3	5
22	Galvanic oxidation processes (GOPs): An effective direct electron transfer approach for organic contaminant oxidation. <i>Science of the Total Environment</i> , 2020 , 743, 140828	10.2	5
21	Dissolution, Adsorption, and Redox Reaction in Ternary Mixtures of Goethite, Aluminum Oxides, and Hydroquinone. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4371-4379	3.8	4
20	Interactions and Reductive Reactivity in Ternary Mixtures of Fe(II), Goethite, and Phthalic Acid Based on a Combined Experimental and Modeling Approach. <i>Langmuir</i> , 2019 , 35, 8220-8227	4	4
19	Coupling a Feedforward Network (FN) Model to Real Adsorbed Solution Theory (RAST) to Improve Prediction of Bisolute Adsorption on Resins. <i>Environmental Science & Technology</i> , 2020 , 54, 15385-15394	10.3	4
18	System Dynamics-Multiple Objective Optimization Model for Water Resource Management: A Case Study in Jiaying City, China. <i>Water (Switzerland)</i> , 2021 , 13, 671	3	4
17	Evolution of humic substances in polymerization of polyphenol and amino acid based on non-destructive characterization. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	4
16	Reaction of bisphenol A with synthetic and commercial MnO: spectroscopic and kinetic study. <i>Environmental Sciences: Processes and Impacts</i> , 2018 , 20, 1046-1055	4.3	4
15	Modeling Bisolute Adsorption of Aromatic Compounds Based on Adsorbed Solution Theories. <i>Environmental Science & Technology</i> , 2017 , 51, 5552-5562	10.3	3
14	Machine Learning-Assisted QSAR Models on Contaminant Reactivity Toward Four Oxidants: Combining Small Data Sets and Knowledge Transfer.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	2
13	Predicting non-carcinogenic hazard quotients of heavy metals in pepper (<i>Capsicum annum L.</i>) utilizing electromagnetic waves. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	2
12	The Use of Chemical Probes for the Characterization of the Predominant Abiotic Reductants in Anaerobic Sediments. <i>ACS Symposium Series</i> , 2011 , 539-557	0.4	1
11	Hydrolysis kinetics of phenylsulfonyl-cycloalkane carboxylates. <i>Chemosphere</i> , 1995 , 31, 3425-3431	8.4	1
10	Coupling-promoted oxidative degradation of organic micropollutants by iron oxychloride (FeOCl) with dual active sites. <i>Chemical Engineering Journal Advances</i> , 2022 , 9, 100214	3.6	1
9	A comprehensive kinetic model for phenol oxidation in seven advanced oxidation processes and considering the effects of halides and carbonate.. <i>Water Research X</i> , 2022 , 14, 100129	8.1	1
8	Investigation of water quality and its spatial distribution in the Kor River basin, Fars province, Iran. <i>Environmental Research</i> , 2022 , 204, 112294	7.9	1
7	Enhancement of nitrogen and phosphorus removal, sludge reduction and microbial community structure in an anaerobic/anoxic/oxic process coupled with composite ferrate solution disintegration. <i>Environmental Research</i> , 2020 , 190, 110006	7.9	1
6	Evaluating the environmental impact of selected chemical de-icers. <i>Transportation Safety and Environment</i> , 2019 , 1, 220-229	2.6	1

5	A Novel Machine Learning Model to Predict the Photo-Degradation Performance of Different Photocatalysts on a Variety of Water Contaminants. <i>Catalysts</i> , 2021 , 11, 1107	4	1
4	Enhanced dewaterability of waste activated sludge by UV assisted ZVI-PDS oxidation.. <i>Journal of Environmental Sciences</i> , 2022 , 113, 152-164	6.4	1
3	ab initio study of Mn-based systems for oxidative degradation. <i>Chemosphere</i> , 2021 , 291, 132706	8.4	0
2	Is the traditional alkali extraction method valid in isolating chemically distinct humic acid?. <i>Chemical Engineering Journal Advances</i> , 2021 , 6, 100077	3.6	0
1	Response to Comment on Predicting Aqueous Adsorption of Organic Compounds onto Biochars, Carbon Nanotubes, Granular Activated Carbons, And Resins with Machine Learning. <i>Environmental Science & Technology</i> , 2020 , 54, 11638-11639	10.3	