

# Tao Zhou

## List of Publications by Year in descending order

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44  
papers

2,568  
citations

201674

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233421

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all docs

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docs citations

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times ranked

2516  
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#	ARTICLE	IF	CITATIONS
1	Decomposition of sulfadiazine in a sonochemical FeO-catalyzed persulfate system: Parameters optimizing and interferences of wastewater matrix. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 31-41.	20.2	242
2	Oxidation of 4-chlorophenol in a heterogeneous zero valent iron/H <sub>2</sub> O <sub>2</sub> Fenton-like system: Kinetic, pathway and effect factors. <i>Separation and Purification Technology</i> , 2008, 62, 551-558.	7.9	227
3	Synergistic degradation of antibiotic sulfadiazine in a heterogeneous ultrasound-enhanced FeO/persulfate Fenton-like system. <i>Chemical Engineering Journal</i> , 2014, 257, 36-44.	12.7	218
4	Distinguishing homogeneous-heterogeneous degradation of norfloxacin in a photochemical Fenton-like system (Fe <sub>3</sub> O <sub>4</sub> /UV/oxalate) and the interfacial reaction mechanism. <i>Water Research</i> , 2017, 119, 47-56.	11.3	131
5	Selective recovery of Pd(II) from extremely acidic solution using ion-imprinted chitosan fiber: Adsorption performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2015, 299, 10-17.	12.4	121
6	Enhanced degradation of 2,4-dichlorophenol by ultrasound in a new Fenton like system (Fe/EDTA) at ambient circumstance. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 782-790.	8.2	109
7	Catalytic hydrodechlorination of chlorophenols by Pd/Fe nanoparticles: Comparisons with other bimetallic systems, kinetics and mechanism. <i>Separation and Purification Technology</i> , 2010, 76, 206-214.	7.9	96
8	Synergistic catalytic degradation of antibiotic sulfamethazine in a heterogeneous sonophotolytic goethite/oxalate Fenton-like system. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 294-301.	20.2	96
9	Rapid degradation of sulfonamides in a novel heterogeneous sonophotochemical magnetite-catalyzed Fenton-like (US/UV/Fe <sub>3</sub> O <sub>4</sub> /oxalate) system. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 325-334.	20.2	85
10	Catalytic oxidation of diclofenac by hydroxylamine-enhanced Cu nanoparticles and the efficient neutral heterogeneous-homogeneous reactive copper cycle. <i>Water Research</i> , 2019, 153, 274-283.	11.3	78
11	Rapid decolorization and mineralization of simulated textile wastewater in a heterogeneous Fenton like system with/without external energy. <i>Journal of Hazardous Materials</i> , 2009, 165, 193-199.	12.4	74
12	Recognizing removal of norfloxacin by novel magnetic molecular imprinted chitosan/Fe <sub>3</sub> O <sub>4</sub> composites: Selective adsorption mechanisms, practical application and regeneration. <i>Separation and Purification Technology</i> , 2016, 165, 92-100.	7.9	66
13	Simulation and optimization of a coking wastewater biological treatment process by activated sludge models (ASM). <i>Journal of Environmental Management</i> , 2016, 165, 235-242.	7.8	66
14	In Situ-Formed Phenoxyl Radical on the CuO Surface Triggers Efficient Persulfate Activation for Phenol Degradation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15361-15370.	10.0	64
15	Sonophotolytic degradation of azo dye reactive black 5 in an ultrasound/UV/ferric system and the roles of different organic ligands. <i>Water Research</i> , 2011, 45, 2915-2924.	11.3	61
16	Synergistic degradation of antibiotic norfloxacin in a novel heterogeneous sonochemical FeO/tetraphosphate Fenton-like system. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 320-327.	8.2	60
17	Simultaneous degradation of 4CP and EDTA in a heterogeneous Ultrasound/Fenton like system at ambient circumstance. <i>Separation and Purification Technology</i> , 2009, 68, 367-374.	7.9	52
18	Facilely tuning the intrinsic catalytic sites of the spinel oxide for peroxymonosulfate activation: From fundamental investigation to pilot-scale demonstration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	52

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19	Visible light induced efficient activation of persulfate by a carbon quantum dots (CQDs) modified $\text{Fe}_3\text{O}_4$ catalyst. Chinese Chemical Letters, 2020, 31, 2757-2761.	9.0	49
20	A sustainable cationic chitosan/E. coli fiber biosorbent for Pt(IV) removal and recovery in batch and column systems. Separation and Purification Technology, 2015, 143, 32-39.	7.9	45
21	The role and fate of EDTA in ultrasound-enhanced zero-valent iron/air system. Chemosphere, 2010, 78, 576-582.	8.2	42
22	Strong metal-support interaction between carbon nanotubes and Mn-Fe spinel oxide in boosting peroxymonosulfate activation: Underneath mechanisms and application. Chemical Engineering Journal, 2022, 429, 132372.	12.7	42
23	Rapid decomposition of diclofenac in a magnetic field enhanced zero-valent iron/EDTA Fenton-like system. Chemosphere, 2018, 193, 968-977.	8.2	40
24	Ion-imprinted chitosan fiber for recovery of Pd(II): Obtaining high selectivity through selective adsorption and two-step desorption. Environmental Research, 2020, 182, 108995.	7.5	40
25	Efficient decomposition of sulfamethoxazole in a novel neutral Fered-Fenton like/oxalate system based on effective heterogeneous-homogeneous iron cycle. Chinese Chemical Letters, 2019, 30, 2231-2235.	9.0	38
26	An insight in magnetic field enhanced zero-valent iron/H <sub>2</sub> O <sub>2</sub> Fenton-like systems: Critical role and evolution of the pristine iron oxides layer. Scientific Reports, 2016, 6, 24094.	3.3	37
27	New insight in the O <sub>2</sub> activation by nano Fe/Cu bimetals: The synergistic role of Cu(0) and Fe(II). Chinese Chemical Letters, 2020, 31, 2831-2834.	9.0	33
28	The critical role of the surface iron-oxalate complexing species in determining photochemical degradation of norfloxacin using different iron oxides. Science of the Total Environment, 2019, 697, 134220.	8.0	30
29	Rational design of Z-scheme ZnFe <sub>2</sub> O <sub>4</sub> /Ag@Ag <sub>2</sub> CO <sub>3</sub> hybrid with enhanced photocatalytic activity, stability and recovery performance for tetracycline degradation. Separation and Purification Technology, 2021, 266, 118544.	7.9	29
30	Efficient sonoelectrochemical decomposition of sulfamethoxazole adopting common Pt/graphite electrodes: The mechanism and favorable pathways. Ultrasonics Sonochemistry, 2017, 38, 735-743.	8.2	28
31	Degradation of chlorophenols (CPs) in an ultrasound-irradiated Fenton-like system at ambient circumstance: The QSPR (quantitative structure–property relationship) study. Chemical Engineering Journal, 2010, 156, 347-352.	12.7	24
32	Adsorption and degradation of norfloxacin by a novel molecular imprinting magnetic Fenton-like catalyst. Chinese Journal of Chemical Engineering, 2015, 23, 1698-1704.	3.5	23
33	Efficient adsorption of Mn(II) by layered double hydroxides intercalated with diethylenetriaminepentaacetic acid and the mechanistic study. Journal of Environmental Sciences, 2019, 85, 56-65.	6.1	23
34	Ultrafast O <sub>2</sub> activation by copper oxide for 2,4-dichlorophenol degradation: The size-dependent surface reactivity. Chinese Chemical Letters, 2020, 31, 2769-2773.	9.0	22
35	Efficient degradation of carbamazepine in a neutral sonochemical FeS/persulfate system based on the enhanced heterogeneous-homogeneous sulfur-iron cycle. Separation and Purification Technology, 2022, 282, 120041.	7.9	22
36	Amplification effects of magnetic field on hydroxylamine-promoted ZVI/H <sub>2</sub> O <sub>2</sub> near-neutral Fenton like system. Chinese Chemical Letters, 2022, 33, 1275-1278.	9.0	21

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37	Aluminum-humic colloid formation during pre-coagulation for membrane water treatment: Mechanisms and impacts. <i>Water Research</i> , 2014, 61, 171-180.	11.3	19
38	Synergistic degradation of sulfamethoxazole in an oxalate-enhanced Fered-Fenton system: The critical heterogeneous solid-liquid interfacial mechanism and an insight in practical application. <i>Journal of Hazardous Materials</i> , 2020, 392, 122268.	12.4	16
39	Revealing the heterogeneous activation mechanism of peroxydisulfate by CuO: the critical role of surface-binding organic substrates. <i>Science of the Total Environment</i> , 2022, 802, 149833.	8.0	15
40	Comparative study of sulfamethazine degradation in visible light induced photo-Fenton and photo-Fenton-like systems. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2393-2400.	6.7	13
41	Citric ligand manipulated efficient spatially-separated reduction and immobilization of Cr(VI) upon electron-rich copper-iron oxides. <i>Chemical Engineering Journal</i> , 2022, 434, 134575.	12.7	5
42	Catalytic Oxygen Activation over the Defective CuO Nanoparticles for Ultrafast Dehalogenation. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29964-29973.	8.0	5
43	Rapid oxidation of 4-cholorphenol in the iron-based Metal-Organic frameworks (MOFs)/H <sub>2</sub> O <sub>2</sub> system: The ignored two-steps interfacial single-electron transfer. <i>Separation and Purification Technology</i> , 2022, 286, 120420.	7.9	3
44	Efficient decontamination of RO concentrate in a sonochemical zero-valent iron/persulfate Fenton-like system: The molecule-size preferred degradation of dissolved organic matters. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107547.	6.7	3