

Laisheng Li

List of Publications by Year in descending order

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papers

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71102

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docs citations

94
times ranked

4811
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the Photothermal Conversion of 2D MXene Nanomaterials: Synthesis, Mechanism, and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2000712.	14.9	336
2	Oxygen-rich bismuth oxyhalides: generalized one-pot synthesis, band structures and visible-light photocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 22840.	6.7	268
3	Photochemical growth of nanoporous SnO ₂ at the air/water interface and its high photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 5641.	6.7	133
4	Influence of the surface hydroxyl groups of MnOx/SBA-15 on heterogeneous catalytic ozonation of oxalic acid. <i>Chemical Engineering Journal</i> , 2014, 242, 348-356.	12.7	120
5	Application of Mn/MCM-41 as an adsorbent to remove methyl blue from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2014, 429, 25-33.	9.4	116
6	Photocatalytic ozonation of dimethyl phthalate with TiO ₂ prepared by a hydrothermal method. <i>Journal of Hazardous Materials</i> , 2011, 189, 40-47.	12.4	107
7	Application of amine-functionalized MCM-41 modified ultrafiltration membrane to remove chromium (VI) and copper (II). <i>Chemical Engineering Journal</i> , 2015, 281, 460-467.	12.7	104
8	Synthesis and characterization of Ni-MCM-41 for methyl blue adsorption. <i>Microporous and Mesoporous Materials</i> , 2015, 214, 88-94.	4.4	103
9	Catalytic ozonation of p-chlorobenzoic acid in aqueous solution using Fe-MCM-41 as catalyst. <i>Chemical Engineering Journal</i> , 2013, 219, 346-354.	12.7	98
10	Effective mineralization of Diclofenac by catalytic ozonation using Fe-MCM-41 catalyst. <i>Chemical Engineering Journal</i> , 2016, 304, 594-601.	12.7	94
11	Photocatalytic oxidation and ozonation of catechol over carbon-black-modified nano-TiO ₂ thin films supported on Al sheet. <i>Water Research</i> , 2003, 37, 3646-3651.	11.3	93
12	Efficient degradation of perfluorooctanoic acid (PFOA) by photocatalytic ozonation. <i>Chemical Engineering Journal</i> , 2016, 296, 329-334.	12.7	92
13	Catalytic ozonation of dimethyl phthalate over cerium supported on activated carbon. <i>Journal of Hazardous Materials</i> , 2009, 170, 411-416.	12.4	89
14	Synthesis of cerium-doped MCM-41 for ozonation of p-chlorobenzoic acid in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2012, 115-116, 16-24.	20.2	81
15	Photocatalysis of p-chlorobenzoic acid in aqueous solution under irradiation of 254nm and 185nm UV light. <i>Water Research</i> , 2004, 38, 4197-4203.	11.3	80
16	Utilization of diatomite/chitosan/Fe (III) composite for the removal of anionic azo dyes from wastewater: Equilibrium, kinetics and thermodynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 129-139.	4.7	79
17	Photocatalytic ozonation of dibutyl phthalate over TiO ₂ film. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 175, 172-177.	3.9	78
18	Enhanced photocatalytic ozonation of organics by g-C ₃ N ₄ under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2014, 280, 531-535.	12.4	78

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19	Catalytic ozonation of p-chlorobenzoic acid over MCM-41 and Fe loaded MCM-41. <i>Chemical Engineering Journal</i> , 2012, 180, 19-24.	12.7	77
20	Efficient adsorption of Norfloxacin by Fe-MCM-41 molecular sieves: Kinetic, isotherm and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2015, 281, 397-403.	12.7	77
21	2D MXene Nanomaterials: Insights into the Photothermal Conversion of 2D MXene Nanomaterials: Synthesis, Mechanism, and Applications (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070314.	14.9	77
22	Synthesis of MnOx/SBA-15 for Norfloxacin degradation by catalytic ozonation. <i>Separation and Purification Technology</i> , 2017, 173, 99-104.	7.9	74
23	Mechanism for enhanced degradation of clofibric acid in aqueous by catalytic ozonation over MnO/SBA-15. <i>Journal of Hazardous Materials</i> , 2015, 286, 276-284.	12.4	73
24	Ce/SBA-15 as a heterogeneous ozonation catalyst for efficient mineralization of dimethyl phthalate. <i>Journal of Molecular Catalysis A</i> , 2013, 377, 57-64.	4.8	69
25	Catalytic ozonation of p-chlorobenzoic acid by activated carbon and nickel supported activated carbon prepared from petroleum coke. <i>Journal of Hazardous Materials</i> , 2009, 163, 115-120.	12.4	67
26	Activity assessment of direct synthesized Fe-SBA-15 for catalytic ozonation of oxalic acid. <i>Separation and Purification Technology</i> , 2016, 159, 1-6.	7.9	67
27	Efficient PFOA degradation by persulfate-assisted photocatalytic ozonation. <i>Separation and Purification Technology</i> , 2018, 207, 255-261.	7.9	67
28	Fast mineralization of acetaminophen by highly dispersed Ag-g-C3N4 hybrid assisted photocatalytic ozonation. <i>Separation and Purification Technology</i> , 2019, 216, 1-8.	7.9	65
29	Equilibrium, kinetics and thermodynamic studies for sorption of chlorobenzenes on CTMAB modified bentonite and kaolinite. <i>Journal of Hazardous Materials</i> , 2010, 173, 47-53.	12.4	62
30	High performance of magnetic BiFeO ₃ nanoparticle-mediated photocatalytic ozonation for wastewater decontamination. <i>Separation and Purification Technology</i> , 2016, 168, 134-140.	7.9	56
31	Ternary CdS-MoS ₂ coated ZnO nanobrush photoelectrode for one-dimensional acceleration of charge separation upon visible light illumination. <i>Chemical Engineering Journal</i> , 2019, 368, 448-458.	12.7	54
32	Visible-light-driven photoelectrocatalytic activation of chloride by nanoporous MoS ₂ @BiVO ₄ photoanode for enhanced degradation of bisphenol A. <i>Chemosphere</i> , 2021, 263, 128279.	8.2	53
33	Catalytic activity of Fe/SBA-15 for ozonation of dimethyl phthalate in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 264-264.	20.2	49
34	Mechanism insight of pollutant degradation and bromate inhibition by Fe-Cu-MCM-41 catalyzed ozonation. <i>Journal of Hazardous Materials</i> , 2018, 346, 226-233.	12.4	49
35	Photochemical growth of cadmium-rich CdS nanotubes at the air/water interface and their use in photocatalysis. <i>Journal of Materials Chemistry</i> , 2009, 19, 6901.	6.7	48
36	Coupling photocatalysis with ozonation for enhanced degradation of Atenolol by Ag-TiO ₂ micro-tube. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 280-286.	3.9	45

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37	The relation of interface electron transfer and PMS activation by the H-bonding interaction between composite metal and MCM-48 during sulfamethazine ozonation. <i>Chemical Engineering Journal</i> , 2020, 398, 125529.	12.7	45
38	Comparison of AC/O ₃ -BAC and O ₃ -BAC processes for removing organic pollutants in secondary effluent. <i>Chemosphere</i> , 2006, 62, 1514-1522.	8.2	44
39	Efficient photocatalytic degradation of tetrabromodiphenyl ethers and simultaneous hydrogen production by TiO ₂ -Cu ₂ O composite films in N ₂ atmosphere: Influencing factors, kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2017, 340, 1-15.	12.4	44
40	Strategy for improving photocatalytic ozonation activity of g-C ₃ N ₄ by halogen doping for water purification. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121133.	20.2	44
41	Composite Si-O-metal network catalysts with uneven electron distribution: Enhanced activity and electron transfer for catalytic ozonation of carbamazepine. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118311.	20.2	43
42	Interfacial engineering of 2D/2D MXene heterostructures: face-to-face contact for augmented photodegradation of amoxicillin. <i>Chemical Engineering Journal</i> , 2021, 426, 131246.	12.7	42
43	Efficient mineralization of bisphenol A by photocatalytic ozonation with TiO ₂ /graphene hybrid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 300-305.	5.3	41
44	Photocatalytic ozonation of oxalic acid by g-C ₃ N ₄ /graphene composites under simulated solar irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 315, 138-144.	3.9	41
45	Fabrication of a Cu ₂ O/Au/TiO ₂ composite film for efficient photocatalytic hydrogen production from aqueous solution of methanol and glucose. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 219, 10-19.	3.5	41
46	Mechanism insight of PFOA degradation by ZnO assisted-photocatalytic ozonation: Efficiency and intermediates. <i>Chemosphere</i> , 2017, 180, 247-252.	8.2	41
47	Mechanism of Synergistic Effect on Electron Transfer over Co/Ce/MCM-48 during Ozonation of Pharmaceuticals in Water. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23957-23971.	8.0	41
48	Understanding photoelectrocatalytic degradation of tetracycline over three-dimensional coral-like ZnO/BiVO ₄ nanocomposite. <i>Materials Chemistry and Physics</i> , 2021, 271, 124871.	4.0	40
49	Photoelectrocatalytic degradation of amoxicillin over quaternary ZnO/ZnSe/CdSe/MoS ₂ hierarchical nanorods. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20826-20838.	7.1	37
50	Mineralization of salicylic acid via catalytic ozonation with Fe-Cu@SiO ₂ core-shell catalyst: A two-stage first order reaction. <i>Chemosphere</i> , 2019, 235, 470-480.	8.2	37
51	Relationship between the structure of Fe-MCM-48 and its activity in catalytic ozonation for diclofenac mineralization. <i>Chemosphere</i> , 2018, 206, 615-621.	8.2	36
52	Flexible construct of N vacancies and hydrophobic sites on g-C ₃ N ₄ by F doping and their contribution to PFOA degradation in photocatalytic ozonation. <i>Journal of Hazardous Materials</i> , 2022, 428, 128222.	12.4	36
53	MoS ₂ decorated CdS hybrid heterojunction for enhanced photoelectrocatalytic performance under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 561-568.	9.4	35
54	AC/O ₃ -BAC processes for removing refractory and hazardous pollutants in raw water. <i>Journal of Hazardous Materials</i> , 2006, 135, 129-133.	12.4	33

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55	Heterogeneous catalytic ozonation of clofibric acid using Ce/MCM-48: Preparation, reaction mechanism, comparison with Ce/MCM-41. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 238-246.	9.4	33
56	Advanced and green ozonation process for removal of clofibric acid in water system: Preparation and mechanism analysis of efficient copper-substituted MCM-48. <i>Separation and Purification Technology</i> , 2019, 211, 684-696.	7.9	32
57	TiO ₂ /UV/O ₃ -BAC processes for removing refractory and hazardous pollutants in raw water. <i>Journal of Hazardous Materials</i> , 2006, 128, 145-149.	12.4	31
58	Synthesis of single atom cobalt dispersed on 2D carbon nanoplate and degradation of acetaminophen by peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2022, 427, 132027.	12.7	31
59	Catalytic ozonation of 2,4-dichlorophenoxyacetic acid over novel Fe@Ni/AC. <i>RSC Advances</i> , 2015, 5, 10537-10545.	3.6	30
60	Excellent performance of ordered Ag-g-C ₃ N ₄ /SBA-15 for photocatalytic ozonation of oxalic acid under simulated solar light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 349, 108-114.	3.9	28
61	pH-insusceptible cobalt-manganese immobilizing mesoporous siliceous MCM-41 catalyst for ozonation of dimethyl phthalate. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 196-202.	9.4	27
62	Characterization and reactivity of cerium loaded MCM-41 for p-chlorobenzoic acid mineralization with ozone. <i>Separation and Purification Technology</i> , 2013, 118, 479-486.	7.9	26
63	Role of Si F groups in enhancing interfacial reaction of Fe-MCM-41 for pollutant removal with ozone. <i>Journal of Hazardous Materials</i> , 2020, 393, 122387.	12.4	26
64	The Correlation of Adsorption Behavior between Ciprofloxacin Hydrochloride and the Active Sites of Fe-doped MCM-41. <i>Frontiers in Chemistry</i> , 2018, 6, 17.	3.6	25
65	Efficient catalytic ozonation of diclofenac by three-dimensional iron (Fe)-doped SBA-16 mesoporous structures. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 461-470.	9.4	25
66	Efficient removal of 2,2',4,4'-tetrabromodiphenyl ether with a Z-scheme Cu ₂ O-(rGO-TiO ₂) photocatalyst under sunlight irradiation. <i>Chemosphere</i> , 2020, 254, 126806.	8.2	25
67	Highly efficient degradation of perfluorooctanoic acid: An integrated photo-electrocatalytic ozonation and mechanism study. <i>Chemical Engineering Journal</i> , 2020, 391, 123533.	12.7	24
68	The mechanism of Metal-H ₂ O ₂ complex immobilized on MCM-48 and enhanced electron transfer for effective peroxone ozonation of sulfamethazine. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119453.	20.2	24
69	Efficient catalytic ozonation of bisphenol A by three-dimensional mesoporous CeO _x -loaded SBA-16. <i>Chemosphere</i> , 2021, 278, 130412.	8.2	21
70	Enhanced mineralization of oxalate by heterogeneous peroxone: The interfacial reaction on the core-shell CeO _x @SiO ₂ . <i>Chemical Engineering Journal</i> , 2020, 379, 122344.	12.7	20
71	Oxygen vacancies and Lewis sites activating O ₃ /H ₂ O ₂ at wide pH range via surface electron transfer over CeO _x @SiO ₂ for nitrobenzene mineralization. <i>Journal of Hazardous Materials</i> , 2021, 406, 124766.	12.4	20
72	Effective catalytic ozonation for oxalic acid degradation with bimetallic Fe@Cu@MCM-41: operation parameters and mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2862-2869.	3.2	17

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73	Pulsed Electrodeposition of Co ₃ O ₄ Nanocrystals on One-Dimensional ZnO Scaffolds for Enhanced Electrochemical Water Oxidation. <i>ChemPlusChem</i> , 2018, 83, 934-940.	2.8	16
74	Enhancing catalytic ozonation activity of MCM-41 via one-step incorporating fluorine and iron: The interfacial reaction induced by hydrophobic sites and Lewis acid sites. <i>Chemosphere</i> , 2022, 292, 133544.	8.2	13
75	A study on the adsorption behaviors of three hydrophobic quinolones by ordered mesoporous CMK-3. <i>Chemosphere</i> , 2022, 294, 133761.	8.2	13
76	Reducing DBPs formation in chlorination of Br-containing Diclofenac via Fe-Cu-MCM-41/O ₃ peroxidation: Efficiency, characterization DBPs precursors and mechanism. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 84, 212-221.	5.3	11
77	Degradation of Oxalic Acid and Bisphenol A by Photocatalytic Ozonation with g-C ₃ N ₄ Nanosheet under Simulated Solar Irradiation. <i>Ozone: Science and Engineering</i> , 2016, 38, 312-317.	2.5	9
78	Catalytic Ozonation of Oxalic Acid in the Presence of Fe ₂ O ₃ -Loaded Activated Carbon. <i>Ozone: Science and Engineering</i> , 2018, 40, 448-456.	2.5	9
79	Synthesis of CeOx@SiO ₂ with tandem effect of mass transfer and activation for enhancing sulfanilamide degradation with ozone. <i>Separation and Purification Technology</i> , 2021, 256, 117823.	7.9	9
80	Catalytic Ozonation of Ciprofloxacin over Cerium Oxide Modified SBA-15 and Toxicity Assessment towards <i>E. coli</i> . <i>Journal of Advanced Oxidation Technologies</i> , 2018, 21, 159-169.	0.5	8
81	Efficient photocatalytic debromination of 2,2,4,4-tetrabromodiphenyl ether by Ag-loaded CdS particles under visible light. <i>Chemosphere</i> , 2019, 220, 723-730.	8.2	8
82	Electro-catalytic activity of CeOx modified graphite felt for carbamazepine degradation via E-peroxone process. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	7
83	Efficient degradation of para-chlorobenzoic acid in water by catalytic ozonation with La-Ce-MCM-41. <i>Journal of Porous Materials</i> , 2016, 23, 619-628.	2.6	6
84	Unraveling influence of metal species on norfloxacin removal by mesoporous metallic silicon adsorbent. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35638-35649.	5.3	6
85	Unravelling the facets-dependent behavior among H ₂ O ₂ , O ₃ and oxygen vacancies on CeO _x and the promotion of peroxone reaction at under acidic conditions. <i>Environmental Science: Nano</i> , 2021, 8, 3138-3152.	4.3	4
86	Mineralization of <i>Para</i> -Chlorobenzoic Acid in Water by Cobalt-Incorporated MCM-41 Catalyzed Ozonation. <i>Ozone: Science and Engineering</i> , 2015, 37, 527-537.	2.5	3
87	Catalytic Ozonation for the Degradation of P-Chlorobenzoic Acid in Aqueous Solution by Ni Supported Activated Carbon. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
88	Rebuttal to the criticism on the paper "Application of Mn/MCM-41 as an adsorbent to remove Methyl Blue from aqueous solution". <i>Journal of Colloid and Interface Science</i> , 2017, 498, 460.	9.4	1
89	Catalytic Ozonation of Organics in Reverse Osmosis Concentrate with Catalysts Based on Activated Carbon. <i>Molecules</i> , 2019, 24, 4365.	3.8	1
90	Photocatalytic Ozonation of Dimethyl Phthalate over TiO ₂ Prepared by a Hydrothermal Method. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0

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91	Catalytic Activity of Argentum-loaded MCM-41 for Ozonation of p- Chlorobenzoic Acid (p-CBA) in Aqueous Solution. Journal of Advanced Oxidation Technologies, 2015, 18, .	0.5	0
92	Cover Image, Volume 92, Issue 11. Journal of Chemical Technology and Biotechnology, 2017, 92, i-i.	3.2	0
93	Pulsed Electrodeposition of Co ₃ O ₄ Nanocrystals on One-Dimensional ZnO Scaffolds for Enhanced Electrochemical Water Oxidation. ChemPlusChem, 2018, 83, 889-889.	2.8	0