

Jieyuan Li

List of Publications by Year in Descending Order

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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.

70
papers

4,057
citations

35
h-index

63
g-index

74
ext. papers

5,366
ext. citations

13.2
avg, IF

6.12
L-index

#	Paper	IF	Citations
70	Porous Mn-doped Co ₃ O ₄ nanosheets: Gas sensing performance and interfacial mechanism investigation with In situ DRIFTS. <i>Sensors and Actuators B: Chemical</i> , 2022 , 353, 131155	8.5	1
69	Light-induced secondary hydroxyl defects in Sr _{1-x} Sn(OH) ₆ enable sustained and efficient photocatalytic toluene mineralization. <i>Chemical Engineering Journal</i> , 2022 , 427, 131764	14.7	1
68	Promote the activation and ring opening of intermediates for stable photocatalytic toluene degradation over Zn-Ti-LDH. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1435-1444	9.3	3
67	Subnanometric alkaline-earth oxide clusters for sustainable nitrate to ammonia photosynthesis.. <i>Nature Communications</i> , 2022 , 13, 1098	17.4	5
66	Enhanced Photocatalytic VOCs Mineralization via Special Ga-O-H Charge Transfer Channel in BiGa ₂ O ₃ /MgAl-LDH Heterojunction. <i>ACS ES&T Engineering</i> , 2021 , 1, 501-511		8
65	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8597-8605	3.8	11
64	Enhanced Reactant Activation and Transformation for Efficient Photocatalytic Acetone Degradation on SnO ₂ via Hf Doping. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100115	5.9	2
63	Alkali/alkaline-earth metal intercalated g-C ₃ N ₄ induced charge redistribution and optimized photocatalysis: status and challenges. <i>JPhys Energy</i> , 2021 , 3, 032008	4.9	3
62	Photocatalytic reaction mechanisms at a gas/solid interface for typical air pollutant decomposition. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20184-20210	13	5
61	Surface Lattice Oxygen Activation on SrSbO Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5153-5164	9.5	9
60	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 417, 129305	14.7	17
59	Identification of deactivation-resistant origin of In(OH) for efficient and durable photodegradation of benzene, toluene and their mixtures. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126208	12.8	7
58	In situ loading of MoO ₃ clusters on ultrathin Bi ₂ MoO ₆ nanosheets for synergistically enhanced photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120159	21.8	17
57	Synergistic Effect of Cu Single Atoms and Au-Cu Alloy Nanoparticles on TiO ₂ for Efficient CO Photoreduction. <i>ACS Nano</i> , 2021 , 15, 14453-14464	16.7	36
56	Efficient photocatalytic toluene degradation over heterojunction of GQDs@BiOCl ultrathin nanosheets with selective benzoic acid activation. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126577	12.8	4
55	Promote reactants activation and key intermediates formation for facilitated toluene photodecomposition via Ba active sites construction. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120489	21.8	5
54	Rare-Earth Single-Atom La-N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO Reduction. <i>ACS Nano</i> , 2020 , 14, 15841-15852	16.7	123

53	Selective breakage of C H bonds in the key oxidation intermediates of gaseous formaldehyde on self-doped CaSn(OH) ₆ cubes for safe and efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119214	21.8	16
52	Nature-inspired CaCO ₃ loading TiO ₂ composites for efficient and durable photocatalytic mineralization of gaseous toluene. <i>Science Bulletin</i> , 2020 , 65, 1626-1634	10.6	34
51	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. <i>ACS Catalysis</i> , 2020 , 10, 7230-7239	13.1	49
50	Interfacial activation of reactants and intermediates on CaSO ₄ insulator-based heterostructure for efficient photocatalytic NO removal. <i>Chemical Engineering Journal</i> , 2020 , 390, 124609	14.7	26
49	SrTiO ₃ /BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 710-718	11.3	24
48	Synergistic effects of crystal structure and oxygen vacancy on Bi ₂ O ₃ polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. <i>Science Bulletin</i> , 2020 , 65, 467-476	10.6	67
47	Bi quantum dots implanted 2D C-doped BiOCl nanosheets: Enhanced visible light photocatalysis efficiency and reaction pathway. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1430-1438	11.3	50
46	The high selectivity for benzoic acid formation on Ca ₂ Sb ₂ O ₇ enables efficient and stable toluene mineralization. <i>Applied Catalysis B: Environmental</i> , 2020 , 271, 118948	21.8	23
45	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118251	21.8	70
44	An atomic insight into BiOBr/La ₂ Ti ₂ O ₇ p-n heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. <i>Catalysis Science and Technology</i> , 2020 , 10, 826-834	5.5	15
43	Bi metal prevents the deactivation of oxygen vacancies in Bi ₂ O ₂ CO ₃ for stable and efficient photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118545	21.8	102
42	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. <i>Catalysis Science and Technology</i> , 2020 , 10, 529-535	5.5	6
41	Unveiling the unconventional roles of methyl number on the ring-opening barrier in photocatalytic decomposition of benzene, toluene and o-xylene. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119318	21.8	25
40	Single-Atom Ru-Implanted Metal-Organic Framework/MnO ₂ for the Highly Selective Oxidation of NO _x by Plasma Activation. <i>ACS Catalysis</i> , 2020 , 10, 10185-10196	13.1	26
39	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO-to-CO Photoreduction. <i>ACS Nano</i> , 2020 , 14, 13103-13114	16.7	101
38	Mechanisms of Interfacial Charge Transfer and Photocatalytic NO Oxidation on BiOBr/SnO p-n Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43741-43749	9.5	33
37	Nitrogen defect structure and NO ⁺ intermediate promoted photocatalytic NO removal on H ₂ treated g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2020 , 379, 122282	14.7	161
36	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118130	21.8	75

35	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118977	21.8	46
34	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3366-3374	13	110
33	Quantifying the activation energies of ROS-induced NO _x conversion: Suppressed toxic intermediates generation and clarified reaction mechanism. <i>Chemical Engineering Journal</i> , 2019 , 375, 122026	14.7	11
32	Cu supported on polymeric carbon nitride for selective CO ₂ reduction into CH ₄ : a combined kinetics and thermodynamics investigation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17014-17021	13	63
31	High-surface energy enables efficient and stable photocatalytic toluene degradation via the suppression of intermediate byproducts. <i>Catalysis Science and Technology</i> , 2019 , 9, 2952-2959	5.5	13
30	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. <i>Science Bulletin</i> , 2019 , 64, 669-678	10.6	90
29	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO ₄ . <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 293-299	21.8	51
28	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. <i>Chinese Chemical Letters</i> , 2019 , 30, 875-880	8.1	31
27	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi ₂ GeO ₅ with oxygen vacancies: A combined experimental and theoretical investigation. <i>Chemical Engineering Journal</i> , 2019 , 370, 1366-1375	14.7	103
26	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2019 , 378, 122184	14.7	42
25	Controlling the secondary pollutant on B-doped g-C ₃ N ₄ during photocatalytic NO removal: a combined DRIFTS and DFT investigation. <i>Catalysis Science and Technology</i> , 2019 , 9, 4531-4537	5.5	13
24	Graphene oxide mediated co-generation of C-doping and oxygen defects in BiWO nanosheets: a combined DRIFTS and DFT investigation. <i>Nanoscale</i> , 2019 , 11, 20562-20570	7.7	24
23	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO for Sustainable Visible Light Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47984-47991	9.5	36
22	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi ₂ O ₂ SiO ₃ . <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 187-195	21.8	105
21	Three-in-One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3880-3884	16.4	329
20	Three-in-One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO ₂ Photoreduction. <i>Angewandte Chemie</i> , 2019 , 131, 3920-3924	3.6	40
19	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 19-30	21.8	79
18	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 269-277	21.8	127

17	The activation of reactants and intermediates promotes the selective photocatalytic NO conversion on electron-localized Sr-intercalated g-C ₃ N ₄ . <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 69-76	21.8	98
16	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C ₃ N ₄ . <i>ACS Catalysis</i> , 2018 , 8, 8376-8385	13.1	174
15	Enhanced plasmonic photocatalytic disinfection on noble-metal-free bismuth nanospheres/graphene nanocomposites. <i>Catalysis Science and Technology</i> , 2018 , 8, 4600-4603	5.5	18
14	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 187-195	21.8	113
13	Highly enhanced visible light photocatalysis and in situ FT-IR studies on Bi metal@defective BiOCl hierarchical microspheres. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 218-227	21.8	178
12	Visible-light-induced charge transfer pathway and photocatalysis mechanism on Bi semimetal@defective BiOBr hierarchical microspheres. <i>Journal of Catalysis</i> , 2018 , 357, 41-50	7.3	187
11	Generation and transformation of ROS on g-C ₃ N ₄ for efficient photocatalytic NO removal: A combined in situ DRIFTS and DFT investigation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1695-1703	11.3	12
10	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. <i>Nano Energy</i> , 2018 , 50, 383-392	17.1	158
9	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 938-946	21.8	110
8	Directional electron delivery via a vertical channel between g-C ₃ N ₄ layers promotes photocatalytic efficiency. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9358-9364	13	140
7	Tailoring Active Sites via Synergy between Graphitic and Pyridinic N for Enhanced Catalytic Efficiency of a Carbocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19861-19869	9.5	47
6	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. <i>Environmental Science & Technology</i> , 2017 , 51, 10682-10690	10.3	146
5	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C ₃ N ₄ : Enhanced photocatalysis and reaction mechanism. <i>Journal of Catalysis</i> , 2017 , 352, 351-360	7.3	147
4	Enhanced CO ₂ capture on graphene via N, S dual-doping. <i>Applied Surface Science</i> , 2017 , 399, 420-425	6.7	36
3	Promotion mechanism of pyridine N-doped carbocatalyst for SO ₂ oxidation. <i>RSC Advances</i> , 2016 , 6, 86316-86323	16.7	13
2	Photochemical Transformation Pathways of Nitrates from Photocatalytic NO _x Oxidation: Implications for Controlling Secondary Pollutants. <i>Environmental Science and Technology Letters</i> ,	11	3
1	Optimizing the Gas/Solid Photocatalytic Reactions for Air Purification. <i>ACS ES&T Engineering</i> ,		1