

Lling-Lling Tan

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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.

49 papers	8,217 citations	24 h-index	53 g-index
53 ext. papers	9,625 ext. citations	10.5 avg, IF	6.64 L-index

#	Paper	IF	Citations
49	Graphitic Carbon Nitride (g-C ₃ N ₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. <i>Chemical Reviews</i> , 2016 , 116, 7159-329	68.1	4018
48	Surface charge modification via protonation of graphitic carbon nitride (g-C ₃ N ₄) for electrostatic self-assembly construction of 2D/2D reduced graphene oxide (rGO)/g-C ₃ N ₄ nanostructures toward enhanced photocatalytic reduction of carbon dioxide to methane. <i>Nano Energy</i> , 2015 , 13, 757-770	17.1	577
47	Highly reactive {001} facets of TiO ₂ -based composites: synthesis, formation mechanism and characterization. <i>Nanoscale</i> , 2014 , 6, 1946-2008	7.7	364
46	Graphene oxide as a structure-directing agent for the two-dimensional interface engineering of sandwich-like graphene-g-C ₃ N ₄ hybrid nanostructures with enhanced visible-light photoreduction of CO ₂ to methane. <i>Chemical Communications</i> , 2015 , 51, 858-61	5.8	328
45	Unravelling charge carrier dynamics in protonated g-C ₃ N ₄ interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO ₂ reduction: A combined experimental and first-principles DFT study. <i>Nano Research</i> , 2017 , 10, 1673-1696	10	290
44	Facet-dependent photocatalytic properties of TiO(2) -based composites for energy conversion and environmental remediation. <i>ChemSusChem</i> , 2014 , 7, 690-719	8.3	269
43	Reduced graphene oxide-TiO ₂ nanocomposite as a promising visible-light-active photocatalyst for the conversion of carbon dioxide. <i>Nanoscale Research Letters</i> , 2013 , 8, 465	5	268
42	Heterojunction engineering of graphitic carbon nitride (g-C ₃ N ₄) via Pt loading with improved daylight-induced photocatalytic reduction of carbon dioxide to methane. <i>Dalton Transactions</i> , 2015 , 44, 1249-57	4.3	262
41	Heterostructured AgX/g-C ₃ N ₄ (X = Cl and Br) nanocomposites via a sonication-assisted deposition-precipitation approach: Emerging role of halide ions in the synergistic photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 530-543	21.8	232
40	Self-assembly of nitrogen-doped TiO ₂ with exposed {001} facets on a graphene scaffold as photo-active hybrid nanostructures for reduction of carbon dioxide to methane. <i>Nano Research</i> , 2014 , 7, 1528-1547	10	206
39	Synthesis and applications of graphene-based TiO(2) photocatalysts. <i>ChemSusChem</i> , 2012 , 5, 1868-82	8.3	200
38	Noble metal modified reduced graphene oxide/TiO ₂ ternary nanostructures for efficient visible-light-driven photoreduction of carbon dioxide into methane. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 251-259	21.8	178
37	Visible-light-active oxygen-rich TiO ₂ decorated 2D graphene oxide with enhanced photocatalytic activity toward carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 160-170	21.8	127
36	Photocatalytic reduction of CO ₂ with H ₂ O over graphene oxide-supported oxygen-rich TiO ₂ hybrid photocatalyst under visible light irradiation: Process and kinetic studies. <i>Chemical Engineering Journal</i> , 2017 , 308, 248-255	14.7	109
35	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. <i>Applied Materials Today</i> , 2016 , 4, 9-16	6.6	90
34	Band gap engineered, oxygen-rich TiO ₂ for visible light induced photocatalytic reduction of CO ₂ . <i>Chemical Communications</i> , 2014 , 50, 6923-6	5.8	78
33	Enhanced Daylight-Induced Photocatalytic Activity of Solvent Exfoliated Graphene (SEG)/ZnO Hybrid Nanocomposites toward Degradation of Reactive Black 5. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17333-17344	3.9	74

32	All-solid-state Z-scheme photocatalyst with carbon nanotubes as an electron mediator for hydrogen evolution under simulated solar light. <i>Chemical Engineering Journal</i> , 2017 , 316, 41-49	14.7	67
31	Visible-light-activated oxygen-rich TiO ₂ as next generation photocatalyst: Importance of annealing temperature on the photoactivity toward reduction of carbon dioxide. <i>Chemical Engineering Journal</i> , 2016 , 283, 1254-1263	14.7	57
30	Synergistic effect of graphene as a co-catalyst for enhanced daylight-induced photocatalytic activity of Zn _{0.5} Cd _{0.5} S synthesized via an improved one-pot co-precipitation-hydrothermal strategy. <i>RSC Advances</i> , 2014 , 4, 59676-59685	3.7	57
29	Point-Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (g-C ₃ N ₄) Photocatalysts toward Artificial Photosynthesis. <i>Small</i> , 2021 , 17, e2006851	11	49
28	Recent advances in carbon quantum dot (CQD)-based two dimensional materials for photocatalytic applications. <i>Catalysis Science and Technology</i> , 2019 , 9, 5882-5905	5.5	45
27	Copper-doped flower-like molybdenum disulfide/bismuth sulfide photocatalysts for enhanced solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 748-756	6.7	37
26	Growth of carbon nanotubes over non-metallic based catalysts: A review on the recent developments. <i>Catalysis Today</i> , 2013 , 217, 1-12	5.3	30
25	Nitrogen-doped carbon quantum dots-decorated 2D graphitic carbon nitride as a promising photocatalyst for environmental remediation: A study on the importance of hybridization approach. <i>Journal of Environmental Management</i> , 2020 , 255, 109936	7.9	23
24	Engineering surface oxygen defects on tungsten oxide to boost photocatalytic oxygen evolution from water splitting. <i>Chemical Communications</i> , 2019 , 55, 6265-6268	5.8	22
23	Molybdenum disulfide quantum dots decorated bismuth sulfide as a superior noble-metal-free photocatalyst for hydrogen evolution through harnessing a broad solar spectrum. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 117-123	21.8	22
22	Recent progress in two-dimensional nanomaterials for photocatalytic carbon dioxide transformation into solar fuels. <i>Materials Today Sustainability</i> , 2020 , 9, 100037	5	21
21	Two-dimensional bismuth oxybromide coupled with molybdenum disulphide for enhanced dye degradation using low power energy-saving light bulb. <i>Journal of Environmental Management</i> , 2017 , 197, 63-69	7.9	18
20	Heterojunction photocatalysts for artificial nitrogen fixation: fundamentals, latest advances and future perspectives. <i>Nanoscale</i> , 2021 , 13, 7011-7033	7.7	18
19	Bismuth sulphide-modified molybdenum disulphide as an efficient photocatalyst for hydrogen production under simulated solar light. <i>Catalysis Communications</i> , 2017 , 98, 66-70	3.2	16
18	Recent advances in homojunction-based photocatalysis for sustainable environmental remediation and clean energy generation. <i>Applied Materials Today</i> , 2020 , 20, 100741	6.6	10
17	Red Phosphorus: An Up-and-Coming Photocatalyst on the Horizon for Sustainable Energy Development and Environmental Remediation.. <i>Chemical Reviews</i> , 2021 ,	68.1	9
16	Metal-free n/n-junctioned graphitic carbon nitride (g-CN): a study to elucidate its charge transfer mechanism and application for environmental remediation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 4388-4403	5.1	8
15	3D-printed photoreactor with robust g-C ₃ N ₄ homojunction based thermoset coating as a new and sustainable approach for photocatalytic wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106437	6.8	5

14	CO ₂ Photocatalytic Reduction: Photocatalyst Choice and Product Selectivity. <i>Environmental Chemistry for A Sustainable World</i> , 2015 , 71-104	0.8	4
13	Proton-Functionalized Graphitic Carbon Nitride for Efficient Metal-Free Destruction of Escherichia coli under Low-Power Light Irradiation. <i>Chemistry - A European Journal</i> , 2021 , 27, 3085-3090	4.8	4
12	Tuning the electronic band structure of graphitic carbon nitride by breaking intramolecular bonds: A simple and effective approach for enhanced photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020 , 529, 146600	6.7	3
11	Interfacial engineering of a zinc blende/wurtzite homojunction photocatalyst through hybridization with a cobalt phosphide co-catalyst for enhanced visible-light-driven photocatalytic H ₂ evolution. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1822-1827	5.8	3
10	MXene-A New Paradigm Toward Artificial Nitrogen Fixation for Sustainable Ammonia Generation: Synthesis, Properties, and Future Outlook 2022 , 4, 212-245		3
9	Point-Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (g-C ₃ N ₄) Photocatalysts toward Artificial Photosynthesis (Small 48/2021). <i>Small</i> , 2021 , 17, 2170252	11	3
8	Growth of carbon nanotubes on Si/SiO ₂ wafer etched by hydrofluoric acid under different etching durations. <i>Applied Surface Science</i> , 2012 , 258, 5774-5777	6.7	2
7	A Synergistic Combination of P-doped Zn _{0.5} Cd _{0.5} S and CoP for Dual-Stage Electron Trapping and Its Application in Seawater Splitting. <i>Solar Rrl</i> , 2021 , 5, 2100016	7.1	2
6	Recent Advances in Nanoscale Engineering of Ternary Metal Sulfide-Based Heterostructures for Photocatalytic Water Splitting Applications. <i>Energy & Fuels</i> , 2022 , 36, 4250-4267	4.1	2
5	Synergistic effects of the hybridization between boron-doped carbon quantum dots and n/n-type g-CN homojunction for boosted visible-light photocatalytic activity.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
4	Insights from density functional theory calculations on heteroatom P-doped ZnInS bilayer nanosheets with atomic-level charge steering for photocatalytic water splitting.. <i>Scientific Reports</i> , 2022 , 12, 1927	4.9	1
3	Photo-Driven Reduction of Carbon Dioxide: A Sustainable Approach Towards Achieving Carbon Neutrality Goal. <i>Frontiers in Chemical Engineering</i> , 2021 , 3,	1	1
2	Atomistic Insights into the Reformation of CH ₄ with CO ₂ on Metal-Free gC ₃ N ₄ : Unraveling the Reaction Mechanisms Using First-Principles DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23021-23028	3.8	1
1	Recent advances on TiO ₂ photocatalysis for wastewater degradation: fundamentals, commercial TiO ₂ materials, and photocatalytic reactors 2021 , 25-65		1