Fan Dong

List of Publications by Year in descending order

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435 papers	42,291 citations	1457 107 h-index	3312 184 g-index
438 all docs	438 docs citations	438 times ranked	22846 citing authors

#	Article	IF	Citations
1	Graphitic carbon nitride based nanocomposites: a review. Nanoscale, 2015, 7, 15-37.	2.8	1,440
2	In Situ Construction of g-C₃N₄/g-C₃N₄ Metal-Free Heterojunction for Enhanced Visible-Light Photocatalysis. ACS Applied Materials & Interfaces, 2013, 5, 11392-11401.	4.0	1,102
3	Efficient synthesis of polymeric g-C3N4 layered materials as novel efficient visible light driven photocatalysts. Journal of Materials Chemistry, 2011, 21, 15171.	6.7	940
4	Bridging the g-C₃N₄ Interlayers for Enhanced Photocatalysis. ACS Catalysis, 2016, 6, 2462-2472.	5.5	869
5	MnO₂-based nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21380-21423.	5.2	817
6	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO₃^{2â€“}-Doped Bi₂O₂CO₃. ACS Catalysis, 2015, 5, 4094-4103.	5.5	690
7	Precursor-reforming protocol to 3D mesoporous g-C 3 N 4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. Nano Energy, 2017, 38, 72-81.	8.2	596
8	In situ assembly of BiOI@Bi 12 O 17 Cl 2 p - n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. Applied Catalysis B: Environmental, 2016, 199, 75-86.	10.8	577
9	Enhanced photocatalytic degradation and H2/H2O2 production performance of S-pCN/WO2.72 S-scheme heterojunction with appropriate surface oxygen vacancies. Nano Energy, 2021, 81, 105671.	8.2	517
10	Threeâ€inâ€One Oxygen Vacancies: Whole Visibleâ€Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO₂ Photoreduction. Angewandte Chemie - International Edition, 2019, 58, 3880-3884.	7.2	483
11	An Advanced Semimetalâ€“Organic Bi Spheresâ€“g-C₃N₄ Nanohybrid with SPR-Enhanced Visible-Light Photocatalytic Performance for NO Purification. Environmental Science & Technology, 2015, 49, 12432-12440.	4.6	473
12	Noble Metal-Like Behavior of Plasmonic Bi Particles as a Cocatalyst Deposited on (BiO)₂CO₃ Microspheres for Efficient Visible Light Photocatalysis. ACS Catalysis, 2014, 4, 4341-4350.	5.5	441
13	Immobilization of Polymeric g-C₃N₄ on Structured Ceramic Foam for Efficient Visible Light Photocatalytic Air Purification with Real Indoor Illumination. Environmental Science & Technology, 2014, 48, 10345-10353.	4.6	436
14	Structural Directed Growth of Ultrathin Parallel Birnessite on Î²-MnO₂ for High-Performance Asymmetric Supercapacitors. ACS Nano, 2018, 12, 1033-1042.	7.3	436
15	Synthesis of MoS_2/g-C_3N_4 nanocomposites with enhanced visible-light photocatalytic activity for the removal of nitric oxide (NO). Optics Express, 2016, 24, 10205.	1.7	415
16	Enhanced visible light photocatalytic activity and oxidation ability of porous graphene-like g-C3N4 nanosheets via thermal exfoliation. Applied Surface Science, 2015, 358, 393-403.	3.1	378
17	Enhancement of the Visible Light Photocatalytic Activity of C-Doped TiO₂ Nanomaterials Prepared by a Green Synthetic Approach. Journal of Physical Chemistry C, 2011, 115, 13285-13292.	1.5	365
18	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. Journal of Colloid and Interface Science, 2013, 401, 70-79.	5.0	358

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19	Bi₂O₂(OH)(NO₃) as a desirable [Bi₂O₂]²⁺layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. Journal of Materials Chemistry A, 2015, 3, 24547-24556.	5.2	352
20	Room temperature synthesis and highly enhanced visible light photocatalytic activity of porous BiOI/BiOCl composites nanoplates microflowers. Journal of Hazardous Materials, 2012, 219-220, 26-34.	6.5	333
21	Water-assisted production of honeycomb-like g-C₃N₄ with ultralong carrier lifetime and outstanding photocatalytic activity. Nanoscale, 2015, 7, 2471-2479.	2.8	328
22	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. Applied Catalysis B: Environmental, 2017, 203, 465-474.	10.8	328
23	Template-free precursor-surface-etching route to porous, thin g-C₃N₄ nanosheets for enhancing photocatalytic reduction and oxidation activity. Journal of Materials Chemistry A, 2017, 5, 17452-17463.	5.2	324
24	In situ co-pyrolysis fabrication of CeO₂/g-C₃N₄ nâ€“n type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. Journal of Materials Chemistry A, 2015, 3, 17120-17129.	5.2	319
25	Defectâ€Tailoring Mediated Electronâ€“Hole Separation in Singleâ€Unitâ€Cell Bi₃O₄Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. Advanced Materials, 2019, 31, e1807576.	11.1	311
26	WO₃-based photocatalysts: morphology control, activity enhancement and multifunctional applications. Environmental Science: Nano, 2017, 4, 539-557.	2.2	297
27	Hybridization of rutile TiO2 (rTiO2) with g-C3N4 quantum dots (CN QDs): An efficient visible-light-driven Z-scheme hybridized photocatalyst. Applied Catalysis B: Environmental, 2017, 202, 611-619.	10.8	296
28	Rational design on 3D hierarchical bismuth oxyiodides via in situ self-template phase transformation and phase-junction construction for optimizing photocatalysis against diverse contaminants. Applied Catalysis B: Environmental, 2017, 203, 879-888.	10.8	289
29	Solâ€“gel preparation and enhanced photocatalytic performance of Cu-doped ZnO nanoparticles. Applied Surface Science, 2011, 258, 1587-1591.	3.1	286
30	Rare-Earth Single-Atom Laâ€“N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO₂ Reduction. ACS Nano, 2020, 14, 15841-15852.	7.3	283
31	A semimetal bismuth element as a direct plasmonic photocatalyst. Chemical Communications, 2014, 50, 10386-10389.	2.2	282
32	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO₂-to-CO Photoreduction. ACS Nano, 2020, 14, 13103-13114.	7.3	282
33	Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. CheM, 2020, 6, 968-984.	5.8	274
34	Single-unit-cell layer established Bi2WO6 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. Applied Catalysis B: Environmental, 2017, 219, 526-537.	10.8	264
35	Synthesis of Bi2WO6 with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. Chemical Engineering Journal, 2019, 361, 129-138.	6.6	262
36	One-Step â€œGreenâ€•Synthetic Approach for Mesoporous C-Doped Titanium Dioxide with Efficient Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 16717-16723.	1.5	260

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37	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. Chemical Engineering Journal, 2020, 379, 122282.	6.6	260
38	Facile transformation of low cost thiourea into nitrogen-rich graphitic carbon nitride nanocatalyst with high visible light photocatalytic performance. Catalysis Science and Technology, 2012, 2, 1332.	2.1	253
39	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. Environmental Science & Technology, 2017, 51, 7599-7605.	4.6	249
40	Characterization and photocatalytic activities of C, N and S co-doped TiO₂with 1D nanostructure prepared by the nano-confinement effect. Nanotechnology, 2008, 19, 365607.	1.3	247
41	Visible-light-induced charge transfer pathway and photocatalysis mechanism on Bi semimetal@defective BiOBr hierarchical microspheres. Journal of Catalysis, 2018, 357, 41-50.	3.1	246
42	Highly enhanced visible light photocatalysis and in situ FT-IR studies on Bi metal@defective BiOCl hierarchical microspheres. Applied Catalysis B: Environmental, 2018, 225, 218-227.	10.8	238
43	Synergistic Effect of Cu Single Atoms and Auâ€“Cu Alloy Nanoparticles on TiO₂ for Efficient CO₂ Photoreduction. ACS Nano, 2021, 15, 14453-14464.	7.3	236
44	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. Nano Energy, 2018, 50, 383-392.	8.2	226
45	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C₃N₄. ACS Catalysis, 2018, 8, 8376-8385.	5.5	219
46	Novel in Situ N-Doped (BiO)₂CO₃ Hierarchical Microspheres Self-Assembled by Nanosheets as Efficient and Durable Visible Light Driven Photocatalyst. Langmuir, 2012, 28, 766-773.	1.6	218
47	Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. Journal of Catalysis, 2018, 357, 100-107.	3.1	214
48	2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. Materials Today, 2020, 41, 270-303.	8.3	214
49	Bi Cocatalyst/Bi₂MoO₆ Microspheres Nanohybrid with SPR-Promoted Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2016, 120, 11889-11898.	1.5	212
50	Nickel-Manganese Layered Double Hydroxide Nanosheets Supported on Nickel Foam for High-performance Supercapacitor Electrode Materials. Electrochimica Acta, 2016, 194, 179-186.	2.6	208
51	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. Environmental Science & Technology, 2017, 51, 10682-10690.	4.6	203
52	Bi metal prevents the deactivation of oxygen vacancies in Bi2O2CO3 for stable and efficient photocatalytic NO abatement. Applied Catalysis B: Environmental, 2020, 264, 118545.	10.8	197
53	Unraveling the Mechanisms of Visible Light Photocatalytic NO Purification on Earth-Abundant Insulator-Based Coreâ€“Shell Heterojunctions. Environmental Science & Technology, 2018, 52, 1479-1487.	4.6	192
54	The fabrication and characterization of novel carbon doped TiO₂nanotubes, nanowires and nanorods with high visible light photocatalytic activity. Nanotechnology, 2009, 20, 235701.	1.3	187

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55	Efficient C₃N₄/graphene oxide macroscopic aerogel visible-light photocatalyst. Journal of Materials Chemistry A, 2016, 4, 7823-7829.	5.2	185
56	Activation of amorphous Bi2WO6 with synchronous Bi metal and Bi2O3 coupling: Photocatalysis mechanism and reaction pathway. Applied Catalysis B: Environmental, 2018, 232, 340-347.	10.8	179
57	Modulating electron density of vacancy site by single Au atom for effective CO2 photoreduction. Nature Communications, 2021, 12, 1675.	5.8	178
58	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. Journal of Materials Chemistry A, 2019, 7, 11584-11612.	5.2	174
59	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C3N4: Enhanced photocatalysis and reaction mechanism. Journal of Catalysis, 2017, 352, 351-360.	3.1	173
60	Recent Advances in Noncontact External-Field-Assisted Photocatalysis: From Fundamentals to Applications. ACS Catalysis, 2021, 11, 4739-4769.	5.5	173
61	Facets and defects cooperatively promote visible light plasmonic photocatalysis with Bi nanowires@BiOCl nanosheets. Journal of Catalysis, 2016, 344, 401-410.	3.1	172
62	Visible-Light Photocatalytic Removal of NO in Air over BiOX (X = Cl, Br, I) Single-Crystal Nanoplates Prepared at Room Temperature. Industrial & Engineering Chemistry Research, 2013, 52, 6740-6746.	1.8	170
63	Readily achieving concentration-tunable oxygen vacancies in Bi2O2CO3: Triple-functional role for efficient visible-light photocatalytic redox performance. Applied Catalysis B: Environmental, 2018, 226, 441-450.	10.8	169
64	Role of graphene on the band structure and interfacial interaction of Bi₂WO₆/graphene composites with enhanced photocatalytic oxidation of NO. Journal of Materials Chemistry A, 2014, 2, 16623-16631.	5.2	166
65	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. Applied Catalysis B: Environmental, 2018, 226, 269-277.	10.8	166
66	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. Journal of Materials Chemistry A, 2019, 7, 3366-3374.	5.2	166
67	Synergistic integration of Bi metal and phosphate defects on hexagonal and monoclinic BiPO4: Enhanced photocatalysis and reaction mechanism. Applied Catalysis B: Environmental, 2019, 243, 313-321.	10.8	166
68	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. Applied Catalysis B: Environmental, 2017, 205, 532-540.	10.8	162
69	Photocatalytic Oxidative Dehydrogenation of Ethane Using CO₂ as a Soft Oxidant over Pd/TiO₂ Catalysts to C₂H₄ and Syngas. ACS Catalysis, 2018, 8, 9280-9286.	5.5	162
70	Carbon vacancy in C3N4 nanotube: Electronic structure, photocatalysis mechanism and highly enhanced activity. Applied Catalysis B: Environmental, 2020, 262, 118281.	10.8	162
71	Rational design of octahedron and nanowire CeO₂@MnO₂ coreâ€“shell heterostructures with outstanding rate capability for asymmetric supercapacitors. Chemical Communications, 2015, 51, 14840-14843.	2.2	160
72	Efficient and Durable Visible Light Photocatalytic Performance of Porous Carbon Nitride Nanosheets for Air Purification. Industrial & Engineering Chemistry Research, 2014, 53, 2318-2330.	1.8	159

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73	Directional electron delivery via a vertical channel between g-C₃N₄ layers promotes photocatalytic efficiency. Journal of Materials Chemistry A, 2017, 5, 9358-9364.	5.2	159
74	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. Science Bulletin, 2019, 64, 669-678.	4.3	159
75	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi2O2SiO3. Applied Catalysis B: Environmental, 2019, 241, 187-195.	10.8	158
76	A coreâ€“satellite structured Z-scheme catalyst Cd_{0.5}Zn_{0.5}S/BiVO₄ for highly efficient and stable photocatalytic water splitting. Journal of Materials Chemistry A, 2018, 6, 16932-16942.	5.2	154
77	Rose-like monodisperse bismuth subcarbonate hierarchical hollow microspheres: One-pot template-free fabrication and excellent visible light photocatalytic activity and photochemical stability for NO removal in indoor air. Journal of Hazardous Materials, 2011, 195, 346-354.	6.5	151
78	Morphologically confined hybridization of tiny CoNi2S4 nanosheets into S, P co-doped graphene leading to enhanced pseudocapacitance and rate capability. Chemical Engineering Journal, 2020, 379, 122305.	6.6	148
79	Fabrication, modification and application of (BiO)2CO3-based photocatalysts: A review. Applied Surface Science, 2016, 365, 314-335.	3.1	147
80	Controlling interfacial contact and exposed facets for enhancing photocatalysis via 2Dâ€“2D heterostructures. Chemical Communications, 2015, 51, 8249-8252.	2.2	145
81	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. Applied Catalysis B: Environmental, 2018, 239, 187-195.	10.8	145
82	Band structure engineering and efficient charge transport in oxygen substituted g-C3N4 for superior photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 230, 115-124.	10.8	143
83	Template-free fabrication and growth mechanism of uniform (BiO)2CO3 hierarchical hollow microspheres with outstanding photocatalytic activities under both UV and visible light irradiation. Journal of Materials Chemistry, 2011, 21, 12428.	6.7	142
84	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi2GeO5 with oxygen vacancies: A combined experimental and theoretical investigation. Chemical Engineering Journal, 2019, 370, 1366-1375.	6.6	141
85	Tunable design of layered CuCo₂O₄ nanosheets@MnO₂ nanoflakes coreâ€“shell arrays on Ni foam for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21528-21536.	5.2	139
86	Defective Bi4MoO9/Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. Applied Catalysis B: Environmental, 2018, 239, 619-627.	10.8	139
87	Fe-ions modified mesoporous Bi2WO6 nanosheets with high visible light photocatalytic activity. Journal of Colloid and Interface Science, 2012, 369, 373-380.	5.0	138
88	Facile synthesis of surface N-doped Bi2O2CO3: Origin of visible light photocatalytic activity and in situ DRIFTS studies. Journal of Hazardous Materials, 2016, 307, 163-172.	6.5	138
89	Growth of BiOBr nanosheets on C3N4 nanosheets to construct two-dimensional nanojunctions with enhanced photoreactivity for NO removal. Journal of Colloid and Interface Science, 2014, 418, 317-323.	5.0	136
90	Activation of amorphous bismuth oxide via plasmonic Bi metal for efficient visible-light photocatalysis. Journal of Catalysis, 2017, 352, 102-112.	3.1	135

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91	Optimizing the rate capability of nickel cobalt phosphide nanowires on graphene oxide by the outer/inter-component synergistic effects. Journal of Materials Chemistry A, 2020, 8, 1697-1708.	5.2	135
92	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. Applied Catalysis B: Environmental, 2018, 237, 938-946.	10.8	134
93	Three dimensional Z-scheme (BiO) 2 CO 3 /MoS 2 with enhanced visible light photocatalytic NO removal. Applied Catalysis B: Environmental, 2016, 199, 87-95.	10.8	133
94	Visible light induced electron transfer process over nitrogen doped TiO2 nanocrystals prepared by oxidation of titanium nitride. Journal of Hazardous Materials, 2008, 157, 57-63.	6.5	132
95	Band structure and visible light photocatalytic activity of multi-type nitrogen doped TiO2 nanoparticles prepared by thermal decomposition. Journal of Hazardous Materials, 2009, 162, 763-770.	6.5	132
96	Immobilizing perovskite CsPbBr3 nanocrystals on Black phosphorus nanosheets for boosting charge separation and photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2020, 277, 119230.	10.8	132
97	KCl-mediated dual electronic channels in layered g-C₃N₄ for enhanced visible light photocatalytic NO removal. Nanoscale, 2018, 10, 8066-8074.	2.8	126
98	The activation of reactants and intermediates promotes the selective photocatalytic NO conversion on electron-localized Sr-intercalated g-C3N4. Applied Catalysis B: Environmental, 2018, 232, 69-76.	10.8	125
99	Co and Pt Dualâ€Singleâ€Atoms with Oxygenâ€Coordinated Coâ€“Oâ€“Pt Dimer Sites for Ultrahigh Photocatalytic Hydrogen Evolution Efficiency. Advanced Materials, 2021, 33, e2003327.	11.1	123
100	Interfacial Electrolyte Effects on Electrocatalytic CO₂ Reduction. ACS Catalysis, 2022, 12, 331-362.	5.5	123
101	Multifunctional g-C 3 N 4 /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. Applied Catalysis B: Environmental, 2018, 235, 17-25.	10.8	117
102	Simultaneously promoting charge separation and photoabsorption of BiOX (X = Cl, Br) for efficient visible-light photocatalysis and photosensitization by compositing low-cost biochar. Applied Surface Science, 2016, 386, 285-295.	3.1	116
103	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silverâ€Palladium Alloy Nanoparticles. ACS Catalysis, 2019, 9, 10803-10811.	5.5	115
104	2D-2D growth of NiFe LDH nanoflakes on montmorillonite for cationic and anionic dye adsorption performance. Journal of Colloid and Interface Science, 2019, 540, 398-409.	5.0	115
105	Noble metal-free Bi nanoparticles supported on TiO₂ with plasmon-enhanced visible light photocatalytic air purification. Environmental Science: Nano, 2016, 3, 1306-1317.	2.2	114
106	Synchronously Achieving Plasmonic Bi Metal Deposition and I^{â€“} Doping by Utilizing BiOIO₃ as the Self-Sacrificing Template for High-Performance Multifunctional Applications. ACS Applied Materials & Interfaces, 2015, 7, 27925-27933.	4.0	113
107	Low-cost high-performance asymmetric supercapacitors based on Co₂AlO₄@MnO₂ nanosheets and Fe₃O₄ nanoflakes. Journal of Materials Chemistry A, 2016, 4, 2096-2104.	5.2	111
108	Synergistic effects of crystal structure and oxygen vacancy on Bi2O3 polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. Science Bulletin, 2020, 65, 467-476.	4.3	108

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109	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. Chemical Engineering Journal, 2018, 348, 26-34.	6.6	104
110	Mechanism of visible light photocatalytic NO_x oxidation with plasmonic Bi cocatalyst-enhanced (BiO)₂CO₃ hierarchical microspheres. Physical Chemistry Chemical Physics, 2015, 17, 10383-10390.	1.3	103
111	In situ synthesis of a C-doped (BiO)₂CO₃ hierarchical self-assembly effectively promoting visible light photocatalysis. Journal of Materials Chemistry A, 2015, 3, 6118-6127.	5.2	103
112	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. Applied Catalysis B: Environmental, 2019, 242, 19-30.	10.8	103
113	Improving g-C3N4 photocatalysis for NOx removal by Ag nanoparticles decoration. Applied Surface Science, 2015, 358, 356-362.	3.1	101
114	New insights into how Pd nanoparticles influence the photocatalytic oxidation and reduction ability of g-C₃N₄ nanosheets. Catalysis Science and Technology, 2016, 6, 6448-6458.	2.1	101
115	In situ FT-IR investigation on the reaction mechanism of visible light photocatalytic NO oxidation with defective g-C3N4. Science Bulletin, 2018, 63, 117-125.	4.3	101
116	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. ACS Sustainable Chemistry and Engineering, 2019, 7, 3010-3017.	3.2	101
117	Highly Efficient Bi₂O₂CO₃ Single-Crystal Lamellas with Dominantly Exposed {001} Facets. Crystal Growth and Design, 2015, 15, 534-537.	1.4	99
118	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. Applied Catalysis B: Environmental, 2020, 260, 118130.	10.8	99
119	In situ decoration of plasmonic Ag nanocrystals on the surface of (BiO)₂CO₃ hierarchical microspheres for enhanced visible light photocatalysis. Dalton Transactions, 2014, 43, 9468-9480.	1.6	98
120	Bi metal sphere/graphene oxide nanohybrids with enhanced direct plasmonic photocatalysis. Applied Catalysis B: Environmental, 2017, 214, 148-157.	10.8	98
121	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. ACS Catalysis, 2020, 10, 7230-7239.	5.5	98
122	Ti3C2 MXene modified g-C3N4 with enhanced visible-light photocatalytic performance for NO purification. Journal of Colloid and Interface Science, 2020, 575, 443-451.	5.0	98
123	A general method for type I and type II g-C₃N₄/g-C₃N₄ metal-free isotype heterostructures with enhanced visible light photocatalysis. New Journal of Chemistry, 2015, 39, 4737-4744.	1.4	95
124	Frustrated Lewis Pair Sites Boosting CO₂ Photoreduction on Cs₂CuBr₄ Perovskite Quantum Dots. ACS Catalysis, 2022, 12, 2915-2926.	5.5	94
125	Morphology and crystallinity-controlled synthesis of manganese cobalt oxide/manganese dioxides hierarchical nanostructures for high-performance supercapacitors. Journal of Power Sources, 2015, 296, 86-91.	4.0	93
126	Facile synthesis of organicâ€“inorganic layered nanojunctions of g-C₃N₄/(BiO)₂CO₃ as efficient visible light photocatalyst. Dalton Transactions, 2014, 43, 12026-12036.	1.6	92

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127	Enhancing the photocatalytic activity of bulk g-C3N4 by introducing mesoporous structure and hybridizing with graphene. Journal of Colloid and Interface Science, 2014, 436, 29-36.	5.0	92
128	Bismuth spheres assembled on graphene oxide: Directional charge transfer enhances plasmonic photocatalysis and in situ DRIFTS studies. Applied Catalysis B: Environmental, 2018, 221, 482-489.	10.8	92
129	Template synthesis of carbon self-doped g-C₃N₄ with enhanced visible to near-infrared absorption and photocatalytic performance. RSC Advances, 2015, 5, 39549-39556.	1.7	91
130	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C₃N₄ for Boosting Photooxidation and Photoreduction Ability. Journal of Physical Chemistry C, 2016, 120, 10381-10389.	1.5	91
131	Phase and morphology evolution of CoAl LDH nanosheets towards advanced supercapacitor applications. CrystEngComm, 2019, 21, 4934-4942.	1.3	91
132	Cu supported on polymeric carbon nitride for selective CO₂ reduction into CH₄: a combined kinetics and thermodynamics investigation. Journal of Materials Chemistry A, 2019, 7, 17014-17021.	5.2	90
133	Engineering of three dimensional (3-D) diatom@TiO2@MnO2 composites with enhanced supercapacitor performance. Electrochimica Acta, 2016, 190, 159-167.	2.6	89
134	Plasmonic Bi metal as cocatalyst and photocatalyst: The case of Bi/(BiO) 2 CO 3 and Bi particles. Journal of Colloid and Interface Science, 2017, 485, 1-10.	5.0	89
135	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. Applied Catalysis B: Environmental, 2020, 262, 118251.	10.8	89
136	Marked enhancement of photocatalytic activity and photochemical stability of Nâ€“doped TiO2 nanocrystals by Fe3+/Fe2+ surface modification. Journal of Colloid and Interface Science, 2010, 343, 200-208.	5.0	88
137	From semiconductors to semimetals: bismuth as a photocatalyst for NO oxidation in air. Journal of Materials Chemistry A, 2014, 2, 11065-11072.	5.2	88
138	Morphology-controlled MnO₂ modified silicon diatoms for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 10856-10865.	5.2	88
139	Rapid Self-Decomposition of g-C₃N₄ During Gasâ€“Solid Photocatalytic CO₂ Reduction and Its Effects on Performance Assessment. ACS Catalysis, 2022, 12, 4560-4570.	5.5	86
140	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. Applied Catalysis B: Environmental, 2020, 272, 118977.	10.8	84
141	Enhanced visible light photocatalytic activity of novel Pt/C-doped TiO2/PtCl4 three-component nanojunction system for degradation of toluene in air. Journal of Hazardous Materials, 2011, 187, 509-516.	6.5	83
142	(NH4)2CO3 mediated hydrothermal synthesis of N-doped (BiO)2CO3 hollow nanoplates microspheres as high-performance and durable visible light photocatalyst for air cleaning. Chemical Engineering Journal, 2013, 214, 198-207.	6.6	83
143	The activation of oxygen through oxygen vacancies in BiOCl/PPy to inhibit toxic intermediates and enhance the activity of photocatalytic nitric oxide removal. Nanoscale, 2019, 11, 6360-6367.	2.8	83
144	Theoretical design and experimental investigation on highly selective Pd particles decorated C3N4 for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	6.5	81

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