

Yanjuan Sun

List of Publications by Year in descending order

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409
papers

35,254
citations

2444

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169
g-index

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all docs

415
docs citations

415
times ranked

22755
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitride based nanocomposites: a review. <i>Nanoscale</i> , 2015, 7, 15-37.	5.8	1,479
2	In Situ Construction of g-C ₃ N ₄ /g-C ₃ N ₄ Metal-Free Heterojunction for Enhanced Visible-Light Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11392-11401.	8.3	1,160
3	Efficient synthesis of polymeric g-C ₃ N ₄ layered materials as novel efficient visible light driven photocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 15171.	6.7	965
4	Bridging the g-C ₃ N ₄ Interlayers for Enhanced Photocatalysis. <i>ACS Catalysis</i> , 2016, 6, 2462-2472.	11.7	943
5	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO ₂ -Doped Bi ₂ O ₂ CO ₃ . <i>ACS Catalysis</i> , 2015, 5, 4094-4103.	11.7	705
6	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. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 75-86.	20.7	588
7	Threeâ€”One Oxygen Vacancies: Whole Visibleâ€”Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO ₂ Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3880-3884.	14.7	523
8	An Advanced Semimetalâ€”Organic Bi Spheresâ€”g-C ₃ N ₄ Nanohybrid with SPR-Enhanced Visible-Light Photocatalytic Performance for NO Purification. <i>Environmental Science & Technology</i> , 2015, 49, 12432-12440.	10.5	487
9	Noble Metal-Like Behavior of Plasmonic Bi Particles as a Cocatalyst Deposited on (BiO) ₂ CO ₃ Microspheres for Efficient Visible Light Photocatalysis. <i>ACS Catalysis</i> , 2014, 4, 4341-4350.	11.7	455
10	Immobilization of Polymeric g-C ₃ N ₄ on Structured Ceramic Foam for Efficient Visible Light Photocatalytic Air Purification with Real Indoor Illumination. <i>Environmental Science & Technology</i> , 2014, 48, 10345-10353.	10.5	446
11	Enhanced visible light photocatalytic activity and oxidation ability of porous graphene-like g-C ₃ N ₄ nanosheets via thermal exfoliation. <i>Applied Surface Science</i> , 2015, 358, 393-403.	6.3	401
12	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2013, 401, 70-79.	9.7	377
13	Enhancement of the Visible Light Photocatalytic Activity of C-Doped TiO ₂ Nanomaterials Prepared by a Green Synthetic Approach. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13285-13292.	3.3	373
14	Bi ₂ O ₂ (OH)(NO ₃) as a desirable [Bi ₂ O ₂] ²⁺ layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24547-24556.	10.5	365
15	Room temperature synthesis and highly enhanced visible light photocatalytic activity of porous BiOI/BiOCl composites nanoplates microflowers. <i>Journal of Hazardous Materials</i> , 2012, 219-220, 26-34.	12.6	340
16	Template-free precursor-surface-etching route to porous, thin g-C ₃ N ₄ nanosheets for enhancing photocatalytic reduction and oxidation activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17452-17463.	10.5	337
17	Water-assisted production of honeycomb-like g-C ₃ N ₄ with ultralong carrier lifetime and outstanding photocatalytic activity. <i>Nanoscale</i> , 2015, 7, 2471-2479.	5.8	336
18	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO ₂ -to-CO Photoreduction. <i>ACS Nano</i> , 2020, 14, 13103-13114.	15.2	333

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19	In situ co-pyrolysis fabrication of CeO ₂ /g-C ₃ N ₄ n type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. Journal of Materials Chemistry A, 2015, 3, 17120-17129.	10.5	330
20	Rare-Earth Single-Atom La-N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO ₂ Reduction. ACS Nano, 2020, 14, 15841-15852.	15.2	314
21	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.	20.7	299
22	A semimetal bismuth element as a direct plasmonic photocatalyst. Chemical Communications, 2014, 50, 10386-10389.	4.2	288
23	Synthesis of Bi ₂ WO ₆ with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. Chemical Engineering Journal, 2019, 361, 129-138.	13.0	286
24	Single-unit-cell layer established Bi ₂ WO ₆ 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. Applied Catalysis B: Environmental, 2017, 219, 526-537.	20.7	277
25	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.	10.5	275
26	One-Step "Green" Synthetic Approach for Mesoporous C-Doped Titanium Dioxide with Efficient Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 16717-16723.	3.3	270
27	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.	4.2	261
28	Visible-light-induced charge transfer pathway and photocatalysis mechanism on Bi semimetal@defective BiOBr hierarchical microspheres. Journal of Catalysis, 2018, 357, 41-50.	6.5	259
29	Characterization and photocatalytic activities of C, N and S co-doped TiO ₂ with 1D nanostructure prepared by the nano-confinement effect. Nanotechnology, 2008, 19, 365607.	2.7	249
30	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.	20.7	249
31	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.	16.5	242
32	Bi Cocatalyst/Bi ₂ MoO ₆ Microspheres Nanohybrid with SPR-Promoted Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2016, 120, 11889-11898.	3.3	226
33	Novel in Situ N-Doped (BiO) ₂ CO ₃ Hierarchical Microspheres Self-Assembled by Nanosheets as Efficient and Durable Visible Light Driven Photocatalyst. Langmuir, 2012, 28, 766-773.	3.7	224
34	Bi metal prevents the deactivation of oxygen vacancies in Bi ₂ O ₂ CO ₃ for stable and efficient photocatalytic NO abatement. Applied Catalysis B: Environmental, 2020, 264, 118545.	20.7	216
35	Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. Journal of Catalysis, 2018, 357, 100-107.	6.5	215
36	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. Environmental Science & Technology, 2017, 51, 10682-10690.	10.5	210

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37	Realising the potential of thermoelectric technology: a Roadmap. <i>Journal of Materials Chemistry C</i> , 2020, 8, 441-463.	5.6	207
38	Single-Atom Materials: Small Structures Determine Macroproperties. <i>Small Structures</i> , 2021, 2, 2000051.	13.2	202
39	Interface engineering for enhancing electrocatalytic oxygen evolution of NiFe LDH/NiTe heterostructures. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119014.	20.7	200
40	Unraveling the Mechanisms of Visible Light Photocatalytic NO Purification on Earth-Abundant Insulator-Based Core-Shell Heterojunctions. <i>Environmental Science & Technology</i> , 2018, 52, 1479-1487.	10.5	199
41	Activation of amorphous Bi ₂ WO ₆ with synchronous Bi metal and Bi ₂ O ₃ coupling: Photocatalysis mechanism and reaction pathway. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 340-347.	20.7	196
42	Efficient C ₃ N ₄ /graphene oxide macroscopic aerogel visible-light photocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7823-7829.	10.5	191
43	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11584-11612.	10.5	190
44	Readily achieving concentration-tunable oxygen vacancies in Bi ₂ O ₂ CO ₃ : Triple-functional role for efficient visible-light photocatalytic redox performance. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 441-450.	20.7	178
45	Facets and defects cooperatively promote visible light plasmonic photocatalysis with Bi nanowires@BiOCl nanosheets. <i>Journal of Catalysis</i> , 2016, 344, 401-410.	6.5	177
46	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. <i>Science Bulletin</i> , 2019, 64, 669-678.	11.1	177
47	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.	6.5	176
48	Visible-Light Photocatalytic Removal of NO in Air over BiOX (X = Cl, Br, I) Single-Crystal Nanoplates Prepared at Room Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6740-6746.	3.8	175
49	Synergistic integration of Bi metal and phosphate defects on hexagonal and monoclinic BiPO ₄ : Enhanced photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 313-321.	20.7	175
50	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 269-277.	20.7	174
51	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 532-540.	20.7	172
52	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3366-3374.	10.5	172
53	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.	10.5	168
54	Role of graphene on the band structure and interfacial interaction of Bi ₂ WO ₆ /graphene composites with enhanced photocatalytic oxidation of NO. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16623-16631.	10.5	167

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55	Efficient and Durable Visible Light Photocatalytic Performance of Porous Carbon Nitride Nanosheets for Air Purification. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2318-2330.	3.8	164
56	Band structure engineering and efficient charge transport in oxygen substituted g-C ₃ N ₄ for superior photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 115-124.	20.7	152
57	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. <i>Journal of Hazardous Materials</i> , 2011, 195, 346-354.	12.6	151
58	Fabrication, modification and application of (BiO) ₂ CO ₃ -based photocatalysts: A review. <i>Applied Surface Science</i> , 2016, 365, 314-335.	6.3	151
59	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.	13.0	151
60	Controlling interfacial contact and exposed facets for enhancing photocatalysis via 2D-2D heterostructures. <i>Chemical Communications</i> , 2015, 51, 8249-8252.	4.2	149
61	Defective Bi ₄ MoO ₉ /Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 619-627.	20.7	148
62	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.	20.7	148
63	Lithium-Air Batteries: Air-Breathing Challenges and Perspective. <i>ACS Nano</i> , 2020, 14, 14549-14578.	15.2	146
64	One-pot solvothermal synthesis of MoS ₂ -modified Mn _{0.2} Cd _{0.8} S/MnS heterojunction photocatalysts for highly efficient visible-light-driven H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 130-140.	20.7	145
65	Template-free fabrication and growth mechanism of uniform (BiO) ₂ CO ₃ hierarchical hollow microspheres with outstanding photocatalytic activities under both UV and visible light irradiation. <i>Journal of Materials Chemistry</i> , 2011, 21, 12428.	6.7	144
66	Facile synthesis of surface N-doped Bi ₂ O ₂ CO ₃ : Origin of visible light photocatalytic activity and in situ DRIFTS studies. <i>Journal of Hazardous Materials</i> , 2016, 307, 163-172.	12.6	143
67	Activation of amorphous bismuth oxide via plasmonic Bi metal for efficient visible-light photocatalysis. <i>Journal of Catalysis</i> , 2017, 352, 102-112.	6.5	141
68	Fe-ions modified mesoporous Bi ₂ WO ₆ nanosheets with high visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 373-380.	9.7	140
69	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.	20.7	139
70	Growth of BiOBr nanosheets on C ₃ N ₄ nanosheets to construct two-dimensional nanojunctions with enhanced photoreactivity for NO removal. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 317-323.	9.7	138
71	Band structure and visible light photocatalytic activity of multi-type nitrogen doped TiO ₂ nanoparticles prepared by thermal decomposition. <i>Journal of Hazardous Materials</i> , 2009, 162, 763-770.	12.6	135
72	Three dimensional Z-scheme (BiO) ₂ CO ₃ /MoS ₂ with enhanced visible light photocatalytic NO removal. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 87-95.	20.7	134

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73	Visible light induced electron transfer process over nitrogen doped TiO ₂ nanocrystals prepared by oxidation of titanium nitride. <i>Journal of Hazardous Materials</i> , 2008, 157, 57-63.	12.6	132
74	KCl-mediated dual electronic channels in layered g-C ₃ N ₄ for enhanced visible light photocatalytic NO removal. <i>Nanoscale</i> , 2018, 10, 8066-8074.	5.8	132
75	Simultaneously promoting charge separation and photoabsorption of BiOX (X = Cl, Br) for efficient visible-light photocatalysis and photosensitization by compositing low-cost biochar. <i>Applied Surface Science</i> , 2016, 386, 285-295.	6.3	123
76	Multifunctional g-C ₃ N ₄ /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 17-25.	20.7	123
77	Optimal design of solid-oxide electrolyzer based power-to-methane systems: A comprehensive comparison between steam electrolysis and co-electrolysis. <i>Applied Energy</i> , 2018, 211, 1060-1079.	10.3	122
78	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.	11.1	120
79	Noble metal-free Bi nanoparticles supported on TiO ₂ with plasmon-enhanced visible light photocatalytic air purification. <i>Environmental Science: Nano</i> , 2016, 3, 1306-1317.	4.2	119
80	Synchronously Achieving Plasmonic Bi Metal Deposition and I ⁺ Doping by Utilizing BiOIO ₃ as the Self-Sacrificing Template for High-Performance Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27925-27933.	8.3	115
81	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018, 348, 26-34.	13.0	112
82	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3010-3017.	6.9	110
83	In situ synthesis of a C-doped (BiO) ₂ CO ₃ hierarchical self-assembly effectively promoting visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6118-6127.	10.5	107
84	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.	11.7	107
85	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.	20.7	106
86	Improving g-C ₃ N ₄ photocatalysis for NO _x removal by Ag nanoparticles decoration. <i>Applied Surface Science</i> , 2015, 358, 356-362.	6.3	105
87	Mechanism of visible light photocatalytic NO _x oxidation with plasmonic Bi cocatalyst-enhanced (BiO) ₂ CO ₃ hierarchical microspheres. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10383-10390.	2.9	104
88	New insights into how Pd nanoparticles influence the photocatalytic oxidation and reduction ability of g-C ₃ N ₄ nanosheets. <i>Catalysis Science and Technology</i> , 2016, 6, 6448-6458.	4.2	103
89	Ti ₃ C ₂ MXene modified g-C ₃ N ₄ with enhanced visible-light photocatalytic performance for NO purification. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 443-451.	9.7	103
90	Plasmonic Bi metal as cocatalyst and photocatalyst: The case of Bi/(BiO) ₂ CO ₃ and Bi particles. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 1-10.	9.7	102

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91	Highly Efficient Bi ₂ O ₂ CO ₃ Single-Crystal Lamellas with Dominantly Exposed {001} Facets. <i>Crystal Growth and Design</i> , 2015, 15, 534-537.	3.2	100
92	A bat optimized neural network and wavelet transform approach for short-term price forecasting. <i>Applied Energy</i> , 2018, 210, 88-97.	10.3	100
93	In situ decoration of plasmonic Ag nanocrystals on the surface of (BiO) ₂ CO ₃ hierarchical microspheres for enhanced visible light photocatalysis. <i>Dalton Transactions</i> , 2014, 43, 9468-9480.	3.4	99
94	A general method for type I and type II g-C ₃ N ₄ /g-C ₃ N ₄ metal-free isotype heterostructures with enhanced visible light photocatalysis. <i>New Journal of Chemistry</i> , 2015, 39, 4737-4744.	2.7	99
95	Bi metal sphere/graphene oxide nanohybrids with enhanced direct plasmonic photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 148-157.	20.7	99
96	Photoelectrochemical water splitting coupled with degradation of organic pollutants enhanced by surface and interface engineering of BiVO ₄ photoanode. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119268.	20.7	99
97	Facile synthesis of organic-inorganic layered nanojunctions of g-C ₃ N ₄ /(BiO) ₂ CO ₃ as efficient visible light photocatalyst. <i>Dalton Transactions</i> , 2014, 43, 12026-12036.	3.4	97
98	The pivotal effects of oxygen vacancy on Bi ₂ MoO ₆ : Promoted visible light photocatalytic activity and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2019, 40, 647-655.	14.6	97
99	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C ₃ N ₄ for Boosting Photooxidation and Photoreduction Ability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10381-10389.	3.3	96
100	Bismuth spheres assembled on graphene oxide: Directional charge transfer enhances plasmonic photocatalysis and in situ DRIFTS studies. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 482-489.	20.7	95
101	Enhancing the photocatalytic activity of bulk g-C ₃ N ₄ by introducing mesoporous structure and hybridizing with graphene. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 29-36.	9.7	94
102	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17954-17962.	10.5	94
103	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.	10.5	94
104	Bi-based photocatalysts for light-driven environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. <i>EcoMat</i> , 2020, 2, e12047.	12.0	94
105	Template synthesis of carbon self-doped g-C ₃ N ₄ with enhanced visible to near-infrared absorption and photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 39549-39556.	3.7	92
106	From semiconductors to semimetals: bismuth as a photocatalyst for NO oxidation in air. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11065-11072.	10.5	91
107	Post-transplant cholangiopathy: Classification, pathogenesis, and preventive strategies. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 1507-1515.	3.9	90
108	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.	20.7	90

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109	Mechanisms of Interfacial Charge Transfer and Photocatalytic NO Oxidation on BiOBr/SnO ₂ p-n Heterojunctions. ACS Applied Materials & Interfaces, 2020, 12, 43741-43749.	8.3	89
110	Marked enhancement of photocatalytic activity and photochemical stability of N-doped TiO ₂ nanocrystals by Fe ³⁺ /Fe ²⁺ surface modification. Journal of Colloid and Interface Science, 2010, 343, 200-208.	9.7	88
111	Enhanced visible light photocatalytic activity of novel Pt/C-doped TiO ₂ /PtCl ₄ three-component nanojunction system for degradation of toluene in air. Journal of Hazardous Materials, 2011, 187, 509-516.	12.6	86
112	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.	5.8	86
113	(NH ₄) ₂ CO ₃ mediated hydrothermal synthesis of N-doped (BiO) ₂ CO ₃ hollow nanoplates microspheres as high-performance and durable visible light photocatalyst for air cleaning. Chemical Engineering Journal, 2013, 214, 198-207.	13.0	83
114	A simple strategy for engineering heterostructures of Au nanoparticle-loaded metal-organic framework nanosheets to achieve plasmon-enhanced photocatalytic CO ₂ conversion under visible light. Journal of Materials Chemistry A, 2019, 7, 11355-11361.	10.5	83
115	Synergistic integration of metallic Bi and defects on BiOI: Enhanced photocatalytic NO removal and conversion pathway. Chinese Journal of Catalysis, 2019, 40, 826-836.	14.6	82
116	Theoretical design and experimental investigation on highly selective Pd particles decorated C ₃ N ₄ for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	12.6	82
117	Oxygen vacancy engineering of self-doped SnO _{2-x} nanocrystals for ultrasensitive NO ₂ detection. Journal of Materials Chemistry C, 2020, 8, 487-494.	5.6	81
118	Surface oxygen-vacancy induced photocatalytic activity of La(OH) ₃ nanorods prepared by a fast and scalable method. Physical Chemistry Chemical Physics, 2015, 17, 16058-16066.	2.9	80
119	One-pot template-free synthesis, growth mechanism and enhanced photocatalytic activity of monodisperse (BiO) ₂ CO ₃ hierarchical hollow microspheres self-assembled with single-crystalline nanosheets. CrystEngComm, 2012, 14, 3534.	2.4	79
120	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. Advanced Functional Materials, 2019, 29, 1808084.	16.4	79
121	Three-dimensional MoS ₂ /reduced graphene oxide aerogel as a macroscopic visible-light photocatalyst. Chinese Journal of Catalysis, 2017, 38, 313-320.	14.6	78
122	Highly enhanced visible-light photocatalytic NO _x purification and conversion pathway on self-structurally modified g-C ₃ N ₄ nanosheets. Science Bulletin, 2018, 63, 609-620.	11.1	78
123	Photocatalytic NO oxidation on N-doped TiO ₂ /g-C ₃ N ₄ heterojunction: Enhanced efficiency, mechanism and reaction pathway. Applied Surface Science, 2018, 458, 77-85.	6.3	78
124	Mass-Controlled Direct Synthesis of Graphene-like Carbon Nitride Nanosheets with Exceptional High Visible Light Activity. Less is Better. Scientific Reports, 2015, 5, 14643.	3.5	77
125	Synergistic photo-thermal catalytic NO purification of MnO/g-C ₃ N ₄ : Enhanced performance and reaction mechanism. Chinese Journal of Catalysis, 2018, 39, 619-629.	14.6	77
126	Highly efficient photocatalytic bismuth oxide coatings and their antimicrobial properties under visible light irradiation. Applied Catalysis B: Environmental, 2018, 239, 223-232.	20.7	77

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127	Efficient visible light photocatalytic oxidation of NO in air with band-gap tailored (BiO) ₂ CO ₃ @BiOI solid solutions. <i>Chemical Engineering Journal</i> , 2014, 255, 650-658.	13.0	76
128	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO ₄ . <i>Applied Catalysis B: Environmental</i> , 2019, 253, 293-299.	20.7	76
129	Atomic interfacial structure and charge transfer mechanism on in-situ formed BiOI/Bi ₂ O ₂ SO ₄ p-n heterojunctions with highly promoted photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120492.	20.7	76
130	Surface Activated Hydrothermal Carbon-Coated Electrospun PAN Fiber Membrane with Enhanced Adsorption Properties for Herbicide. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2584-2592.	6.9	75
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