Wingkei Ho

List of Publications by Year in descending order

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210 papers	32,362 citations	3531 90 h-index	3915 177 g-index
212 all docs	212 docs citations	212 times ranked	24004 citing authors

#	Article	IF	Citations
1	Effects of F-Doping on the Photocatalytic Activity and Microstructures of Nanocrystalline TiO2Powders. Chemistry of Materials, 2002, 14, 3808-3816.	6.7	2,068
2	The Effect of Calcination Temperature on the Surface Microstructure and Photocatalytic Activity of TiO2 Thin Films Prepared by Liquid Phase Deposition. Journal of Physical Chemistry B, 2003, 107, 13871-13879.	2.6	1,113
3	In Situ Construction of g-C₃N₄/g-C₃N₄ Metal-Free Heterojunction for Enhanced Visible-Light Photocatalysis. ACS Applied Materials & Interfaces, 2013, 5, 11392-11401.	8.0	1,102
4	Sulfur-doped g-C3N4 with enhanced photocatalytic CO2-reduction performance. Applied Catalysis B: Environmental, 2015, 176-177, 44-52.	20.2	919
5	Review on the improvement of the photocatalytic and antibacterial activities of ZnO. Journal of Alloys and Compounds, 2017, 727, 792-820.	5.5	884
6	Efficient Visible-Light-Induced Photocatalytic Disinfection on Sulfur-Doped Nanocrystalline Titania. Environmental Science & Technology, 2005, 39, 1175-1179.	10.0	754
7	Isoelectric point and adsorption activity of porous g-C3N4. Applied Surface Science, 2015, 344, 188-195.	6.1	753
8	A Hierarchical Z-Scheme CdS-WO₃Photocatalyst with Enhanced CO₂Reduction Activity. Small, 2015, 11, 5262-5271.	10.0	682
9	2D/2D/0D TiO2/C3N4/Ti3C2 MXene composite S-scheme photocatalyst with enhanced CO2 reduction activity. Applied Catalysis B: Environmental, 2020, 272, 119006.	20.2	604
10	Fabrication and photocatalytic activity enhanced mechanism of direct Z-scheme g-C 3 N 4 /Ag 2 WO 4 photocatalyst. Applied Surface Science, 2017, 391, 175-183.	6.1	601
11	Preparation and Photocatalytic Behavior of MoS2 and WS2 Nanocluster Sensitized TiO2. Langmuir, 2004, 20, 5865-5869.	3.5	519
12	Effects of acidic and basic hydrolysis catalysts on the photocatalytic activity and microstructures of bimodal mesoporous titania. Journal of Catalysis, 2003, 217, 69-69.	6.2	518
13	A review on TiO2-based Z-scheme photocatalysts. Chinese Journal of Catalysis, 2017, 38, 1936-1955.	14.0	511
14	Selective photocatalytic N₂ fixation dependent on g-C₃N₄ induced by nitrogen vacancies. Journal of Materials Chemistry A, 2015, 3, 23435-23441.	10.3	495
15	Enhanced photocatalytic H2-production activity of WO3/TiO2 step-scheme heterojunction by graphene modification. Chinese Journal of Catalysis, 2020, 41, 9-20.	14.0	458
16	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.	11.2	441
17	Review on Metal Sulphideâ€based Zâ€scheme Photocatalysts. ChemCatChem, 2019, 11, 1394-1411.	3.7	439
18	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.	10.0	436

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19	Efficient Photocatalytic Removal of NO in Indoor Air with Hierarchical Bismuth Oxybromide Nanoplate Microspheres under Visible Light. Environmental Science & Technology, 2009, 43, 4143-4150.	10.0	426
20	Review on nanoscale Bi-based photocatalysts. Nanoscale Horizons, 2018, 3, 464-504.	8.0	421
21	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.	6.1	378
22	Graphene-Based Photocatalysts for CO₂ Reduction to Solar Fuel. Journal of Physical Chemistry Letters, 2015, 6, 4244-4251.	4.6	368
23	Photocatalytic Activity, Antibacterial Effect, and Photoinduced Hydrophilicity of TiO2Films Coated on a Stainless Steel Substrate. Environmental Science & Technology, 2003, 37, 2296-2301.	10.0	359
24	Synthesis of hierarchical nanoporous F-doped TiO2 spheres with visible light photocatalytic activity. Chemical Communications, 2006, , 1115.	4.1	359
25	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.	9.4	358
26	3D hierarchical graphene oxide-NiFe LDH composite with enhanced adsorption affinity to Congo red, methyl orange and Cr(VI) ions. Journal of Hazardous Materials, 2019, 369, 214-225.	12.4	329
27	Water-assisted production of honeycomb-like g-C₃N₄ with ultralong carrier lifetime and outstanding photocatalytic activity. Nanoscale, 2015, 7, 2471-2479.	5.6	328
28	Design, Fabrication, and Mechanism of Nitrogenâ€Doped Grapheneâ€Based Photocatalyst. Advanced Materials, 2021, 33, e2003521.	21.0	324
29	Preparation of highly photocatalytic active nano-sized TiO2 particles via ultrasonic irradiation. Chemical Communications, 2001, , 1942-1943.	4.1	321
30	Workability and mechanical properties of alkali-activated fly ash-slag concrete cured at ambient temperature. Construction and Building Materials, 2018, 172, 476-487.	7.2	305
31	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.	20.2	296
32	Effect of Carbon Doping on the Mesoporous Structure of Nanocrystalline Titanium Dioxide and Its Solar-Light-Driven Photocatalytic Degradation of NO_x. Langmuir, 2008, 24, 3510-3516.	3.5	288
33	Sâ€Scheme Heterojunction TiO₂/CdS Nanocomposite Nanofiber as H₂â€Production Photocatalyst. ChemCatChem, 2019, 11, 6301-6309.	3.7	286
34	Photocatalytic H2 evolution on graphdiyne/g-C3N4 hybrid nanocomposites. Applied Catalysis B: Environmental, 2019, 255, 117770.	20.2	284
35	Copolymerization with 2,4,6-Triaminopyrimidine for the Rolling-up the Layer Structure, Tunable Electronic Properties, and Photocatalysis of g-C₃N₄. ACS Applied Materials & Interfaces, 2015, 7, 5497-5505.	8.0	264
36	Environment-Friendly Carbon Quantum Dots/ZnFe₂O₄ Photocatalysts: Characterization, Biocompatibility, and Mechanisms for NO Removal. Environmental Science & Technology, 2017, 51, 2924-2933.	10.0	260

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37	Effects of calcination temperature on the photocatalytic activity and photo-induced super-hydrophilicity of mesoporous TiO2 thin films. New Journal of Chemistry, 2002, 26, 607-613.	2.8	247
38	Low-temperature hydrothermal synthesis of S-doped TiO2 with visible light photocatalytic activity. Journal of Solid State Chemistry, 2006, 179, 1171-1176.	2.9	245
39	DRIFT Study of the SO₂ Effect on Low-Temperature SCR Reaction over Feâ^'Mn/TiO₂. Journal of Physical Chemistry C, 2010, 114, 4961-4965.	3.1	232
40	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.	3.5	218
41	Interfacial Hydrothermal Synthesis of Cu@Cu₂O Coreâ^'Shell Microspheres with Enhanced Visible-Light-Driven Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 20896-20902.	3.1	217
42	Fabrication of Bi2O2CO3/g-C3N4 heterojunctions for efficiently photocatalytic NO in air removal: In-situ self-sacrificial synthesis, characterizations and mechanistic study. Applied Catalysis B: Environmental, 2016, 199, 123-133.	20.2	214
43	Roles of N-Vacancies over Porous g-C₃N₄ Microtubes during Photocatalytic NO_x Removal. ACS Applied Materials & Interfaces, 2019, 11, 10651-10662.	8.0	210
44	Efficient Visible Light Photocatalytic Removal of NO with BiOBr-Graphene Nanocomposites. Journal of Physical Chemistry C, 2011, 115, 25330-25337.	3.1	208
45	Hierarchical porous Ni/Co-LDH hollow dodecahedron with excellent adsorption property for Congo red and Cr(VI) ions. Applied Surface Science, 2019, 478, 981-990.	6.1	204
46	Ultrasonic Spray Pyrolysis Synthesis of Porous Bi₂WO₆ Microspheres and Their Visible-Light-Induced Photocatalytic Removal of NO. Journal of Physical Chemistry C, 2010, 114, 6342-6349.	3.1	195
47	Carbon vacancy-induced enhancement of the visible light-driven photocatalytic oxidation of NO over g-C 3 N 4 nanosheets. Applied Surface Science, 2018, 430, 380-389.	6.1	189
48	Hierarchically CdSâ€“Ag2S nanocomposites for efficient photocatalytic H2 production. Applied Surface Science, 2019, 470, 196-204.	6.1	189
49	Enhancement in the photocatalytic H2 production activity of CdS NRs by Ag2S and NiS dual cocatalysts. Applied Catalysis B: Environmental, 2021, 288, 119994.	20.2	189
50	Metal-free disinfection effects induced by graphitic carbon nitride polymers under visible light illumination. Chemical Communications, 2014, 50, 4338.	4.1	187
51	Enhancing effects of water content and ultrasonic irradiation on the photocatalytic activity of nano-sized TiO2 powders. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 263-271.	3.9	173
52	CdIn2S4 microsphere as an efficient visible-light-driven photocatalyst for bacterial inactivation: Synthesis, characterizations and photocatalytic inactivation mechanisms. Applied Catalysis B: Environmental, 2013, 129, 482-490.	20.2	170
53	Biomolecule-controlled hydrothermal synthesis of Câ€“Nâ€“S-tridoped TiO2 nanocrystalline photocatalysts for NO removal under simulated solar light irradiation. Journal of Hazardous Materials, 2009, 169, 77-87.	12.4	168
54	Synthesis of a Bi2O2CO3/ZnFe2O4 heterojunction with enhanced photocatalytic activity for visible light irradiation-induced NO removal. Applied Catalysis B: Environmental, 2018, 234, 70-78.	20.2	167

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55	High-surface area mesoporous Pt/TiO 2 hollow chains for efficient formaldehyde decomposition at ambient temperature. Journal of Hazardous Materials, 2016, 301, 522-530.	12.4	162
56	Effects of Trifluoroacetic Acid Modification on the Surface Microstructures and Photocatalytic Activity of Mesoporous TiO2Thin Films. Langmuir, 2003, 19, 3889-3896.	3.5	160
57	Facile synthesis of porous graphene-like carbon nitride (C6N9H3) with excellent photocatalytic activity for NO removal. Applied Catalysis B: Environmental, 2015, 174-175, 477-485.	20.2	159
58	A Simple and General Method for the Synthesis of Multicomponent Na2V6O16Â·3H2O Single-Crystal Nanobelts. Journal of the American Chemical Society, 2004, 126, 3422-3423.	13.7	158
59	Self doping promoted photocatalytic removal of no under visible light with bi2moo6: Indispensable role of superoxide ions. Applied Catalysis B: Environmental, 2016, 182, 316-325.	20.2	157
60	Veterinary antibiotics in food, drinking water, and the urine of preschool children in Hong Kong. Environment International, 2017, 108, 246-252.	10.0	155
61	Preparation, characterization and photocatalytic activity of in situ Fe-doped TiO2 thin films. Thin Solid Films, 2006, 496, 273-280.	1.8	154
62	Self-assembly synthesis of boron-doped graphitic carbon nitride hollow tubes for enhanced photocatalytic NOx removal under visible light. Applied Catalysis B: Environmental, 2018, 239, 352-361.	20.2	154
63	Photocatalytic activity of Ag₂MO₄ (M = Cr, Mo, W) photocatalysts. Journal of Materials Chemistry A, 2015, 3, 20153-20166.	10.3	152
64	Improving photoanodes to obtain highly efficient dye-sensitized solar cells: a brief review. Materials Horizons, 2017, 4, 319-344.	12.2	152
65	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.	12.4	151
66	Review on nickel-based adsorption materials for Congo red. Journal of Hazardous Materials, 2021, 403, 123559.	12.4	148
67	Sonochemical synthesis and visible light photocatalytic behavior of CdSe and CdSe/TiO2 nanoparticles. Journal of Molecular Catalysis A, 2006, 247, 268-274.	4.8	146
68	Vehicular emission of volatile organic compounds (VOCs) from a tunnel study in Hong Kong. Atmospheric Chemistry and Physics, 2009, 9, 7491-7504.	4.9	143
69	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
70	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.	9.4	136
71	Hierarchical NiOâ€“SiO2 composite hollow microspheres with enhanced adsorption affinity towards Congo red in water. Journal of Colloid and Interface Science, 2016, 466, 238-246.	9.4	133
72	Visible-Light-Active Plasmonic Agâ€“SrTiO₃ Nanocomposites for the Degradation of NO in Air with High Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 4165-4174.	8.0	132

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73	Light-induced super-hydrophilicity and photocatalytic activity of mesoporous TiO2 thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 331-339.	3.9	131
74	Enhanced visible-light-driven photocatalytic removal of NO: Effect on layer distortion on g-C3N4 by H2 heating. Applied Catalysis B: Environmental, 2015, 179, 106-112.	20.2	131
75	Perovskite LaFeO3-SrTiO3 composite for synergistically enhanced NO removal under visible light excitation. Applied Catalysis B: Environmental, 2017, 204, 346-357.	20.2	127
76	gâ€C₃N₄â€Based 2D/2D Composite Heterojunction Photocatalyst. Small Structures, 2021, 2, 2100086.	12.0	127
77	Biocompatible FeOOH-Carbon quantum dots nanocomposites for gaseous NO removal under visible light: Improved charge separation and High selectivity. Journal of Hazardous Materials, 2018, 354, 54-62.	12.4	126
78	Halogen poisoning effect of Pt-TiO2 for formaldehyde catalytic oxidation performance at room temperature. Applied Surface Science, 2016, 364, 808-814.	6.1	124
79	Protonated g-C3N4/Ti3+ self-doped TiO2 nanocomposite films: Room-temperature preparation, hydrophilicity, and application for photocatalytic NO removal. Applied Catalysis B: Environmental, 2019, 240, 122-131.	20.2	122
80	Synthesis and adsorption performance of Mg(OH)2 hexagonal nanosheetâ€“graphene oxide composites. Applied Surface Science, 2015, 332, 121-129.	6.1	121
81	Effects of alcohol content and calcination temperature on the textural properties of bimodally mesoporous titania. Applied Catalysis A: General, 2003, 255, 309-320.	4.3	117
82	Direct Z-scheme porous g-C3N4/BiOI heterojunction for enhanced visible-light photocatalytic activity. Journal of Alloys and Compounds, 2018, 766, 841-850.	5.5	115
83	NiFe-LDH nanosheet/carbon fiber nanocomposite with enhanced anionic dye adsorption performance. Applied Surface Science, 2020, 511, 145570.	6.1	112
84	Aerosol-assisted flow synthesis of B-doped, Ni-doped and Bâ€“Ni-codoped TiO2 solid and hollow microspheres for photocatalytic removal of NO. Applied Catalysis B: Environmental, 2009, 89, 398-405.	20.2	102
85	Improving g-C3N4 photocatalysis for NOx removal by Ag nanoparticles decoration. Applied Surface Science, 2015, 358, 356-362.	6.1	101
86	Fabrication and enhanced CO2 reduction performance of N-self-doped TiO2 microsheet photocatalyst by bi-cocatalyst modification. Journal of CO2 Utilization, 2016, 16, 442-449.	6.8	99
87	Improved Oxygen Activation over a Carbon/Co₃O₄ Nanocomposite for Efficient Catalytic Oxidation of Formaldehyde at Room Temperature. Environmental Science & Technology, 2021, 55, 4054-4063.	10.0	97
88	Coreâ€“shell Feâ€“Fe2O3 nanostructures as effective persulfate activator for degradation of methyl orange. Separation and Purification Technology, 2013, 108, 159-165.	7.9	95
89	Photocatalytic selective oxidation of phenol to produce dihydroxybenzenes in a TiO 2 /UV system: Hydroxyl radical versus hole. Applied Catalysis B: Environmental, 2016, 199, 405-411.	20.2	95
90	Enhanced visible-light photo-oxidation of nitric oxide using bismuth-coupled graphitic carbon nitride composite heterostructures. Chinese Journal of Catalysis, 2017, 38, 321-329.	14.0	95

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91	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.	9.4	92
92	Photocatalytic NO removal on BiOI surface: The change from nonselective oxidation to selective oxidation. Applied Catalysis B: Environmental, 2015, 168-169, 490-496.	20.2	88
93	Plasmonic Bi/ZnWO₄ Microspheres with Improved Photocatalytic Activity on NO Removal under Visible Light. ACS Sustainable Chemistry and Engineering, 2016, 4, 6912-6920.	6.7	88
94	Oxygen vacancyâ€“engineered Î´-MnO /activated carbon for room-temperature catalytic oxidation of formaldehyde. Applied Catalysis B: Environmental, 2020, 278, 119294.	20.2	87
95	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. EnergyChem, 2021, 3, 100051.	19.1	87
96	Enhanced catalytic activity of hierarchically macro-/mesoporous Pt/TiO₂ toward room-temperature decomposition of formaldehyde. Catalysis Science and Technology, 2015, 5, 2366-2377.	4.1	86
97	TiO2/In2S3 S-scheme photocatalyst with enhanced H2O2-production activity. Nano Research, 2023, 16, 4506-4514.	10.4	85
98	Nearâ€Infraredâ€Responsive Photocatalysts. Small Methods, 2021, 5, e2001042.	8.6	84
99	Sono- and Photochemical Routes for the Formation of Highly Dispersed Gold Nanoclusters in Mesoporous Titania Films. Advanced Functional Materials, 2004, 14, 1178-1183.	14.9	83
100	(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.	12.7	83
101	Fabrication of TiO 2 nanorod assembly grafted rGO (rGO@TiO 2 -NR) hybridized flake-like photocatalyst. Applied Surface Science, 2017, 391, 218-227.	6.1	81
102	Enhanced Photocatalytic Activity and Selectivity for CO₂ Reduction over a TiO₂ Nanofibre Mat Using Ag and MgO as Biâ€Cocatalyst. ChemCatChem, 2019, 11, 465-472.	3.7	81
103	Photocatalytic CO₂ reduction of C/ZnO nanofibers enhanced by an Ni-NiS cocatalyst. Nanoscale, 2020, 12, 7206-7213.	5.6	80
104	One-pot template-free synthesis, growth mechanism and enhanced photocatalytic activity of monodisperse (BiO)2CO3 hierarchical hollow microspheres self-assembled with single-crystalline nanosheets. CrystEngComm, 2012, 14, 3534.	2.6	79
105	Graphene-induced formation of visible-light-responsive SnO2-Zn2SnO4 Z-scheme photocatalyst with surface vacancy for the enhanced photoreactivity towards NO and acetone oxidation. Chemical Engineering Journal, 2018, 336, 200-210.	12.7	79
106	Zn Cd1â€“S quantum dot with enhanced photocatalytic H2-production performance. Chinese Journal of Catalysis, 2021, 42, 15-24.	14.0	79
107	Hierarchical Pt/NiO Hollow Microspheres with Enhanced Catalytic Performance. ChemNanoMat, 2015, 1, 58-67.	2.8	78
108	Tuning the strength of built-in electric field in 2D/2D g-C3N4/SnS2 and g-C3N4/ZrS2 S-scheme heterojunctions by nonmetal doping. Journal of Materiomics, 2021, 7, 988-997.	5.7	77

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109	Photocatalytic removal of NO and HCHO over nanocrystalline Zn2SnO4 microcubes for indoor air purification. Journal of Hazardous Materials, 2010, 179, 141-150.	12.4	75
110	Hierarchically porous NiOâ€“Al₂O₃ nanocomposite with enhanced Congo red adsorption in water. RSC Advances, 2016, 6, 10272-10279.	3.6	72
111	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.	9.0	72
112	Mass-Controlled Direct Synthesis of Graphene-like Carbon Nitride Nanosheets with Exceptional High Visible Light Activity. Less is Better. Scientific Reports, 2015, 5, 14643.	3.3	71
113	New insights into how RGO influences the photocatalytic performance of BiOIO3/RGO nanocomposites under visible and UV irradiation. Journal of Colloid and Interface Science, 2015, 447, 16-24.	9.4	71
114	Enhanced photocatalytic H2 production performance of CdS hollow spheres using C and Pt as bi-cocatalysts. Chinese Journal of Catalysis, 2021, 42, 743-752.	14.0	67
115	Controllable Synthesis of Coreâ€“Shell Bi@Amorphous Bi₂O₃ Nanospheres with Tunable Optical and Photocatalytic Activity for NO Removal. Industrial & Engineering Chemistry Research, 2017, 56, 10251-10258.	3.7	66
116	Controlled synthesis, growth mechanism and highly efficient solar photocatalysis of nitrogen-doped bismuth subcarbonate hierarchical nanosheets architectures. Dalton Transactions, 2012, 41, 8270.	3.3	65
117	In situ Fabrication of Î±-Bi2O3/(BiO)2CO3 Nanoplate Heterojunctions with Tunable Optical Property and Photocatalytic Activity. Scientific Reports, 2016, 6, 23435.	3.3	65
118	Room-temperature formaldehyde catalytic decomposition. Environmental Science: Nano, 2020, 7, 3655-3709.	4.3	64
119	Effect of mesoporous g-C3N4 substrate on catalytic oxidation of CO over Co3O4. Applied Surface Science, 2017, 401, 333-340.	6.1	63
120	Facile fabrication of porous Cr-doped SrTiO₃ nanotubes by electrospinning and their enhanced visible-light-driven photocatalytic properties. Journal of Materials Chemistry A, 2015, 3, 3935-3943.	10.3	62
121	Gaseous and particulate polycyclic aromatic hydrocarbons (PAHs) emissions from commercial restaurants in Hong Kong. Journal of Environmental Monitoring, 2007, 9, 1402.	2.1	61
122	Hierarchical porous Al2O3@ZnO core-shell microfibres with excellent adsorption affinity for Congo red molecule. Applied Surface Science, 2019, 473, 251-260.	6.1	61
123	Constructing Z-scheme SnO₂/N-doped carbon quantum dots/ZnSn(OH)₆ nanohybrids with high redox ability for NOx removal under VIS-NIR light. Journal of Materials Chemistry A, 2019, 7, 15782-15793.	10.3	60
124	C3N4 with engineered three coordinated (N3C) nitrogen vacancy boosts the production of 1O2 for Efficient and stable NO photo-oxidation. Chemical Engineering Journal, 2020, 389, 124421.	12.7	60
125	Highly Selective Photocatalytic CO₂ Methanation with Water Vapor on Singleâ€Atom Platinumâ€Decorated Defective Carbon Nitride. Angewandte Chemie - International Edition, 2022, 61, .	13.8	60
126	Hierarchical porous ZnWO4 microspheres synthesized by ultrasonic spray pyrolysis: Characterization, mechanistic and photocatalytic NO removal studies. Applied Catalysis A: General, 2016, 515, 170-178.	4.3	59

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127	Phosphorus flame retardants and Bisphenol A in indoor dust and PM2.5 in kindergartens and primary schools in Hong Kong. Environmental Pollution, 2018, 235, 365-371.	7.5	59
128	Engineering of reduced graphene oxide on nanosheetâ€“g-C3N4/perylene imide heterojunction for enhanced photocatalytic redox performance. Applied Catalysis B: Environmental, 2019, 250, 42-51.	20.2	58
129	Effects of H2O2 generation over visible light-responsive Bi/Bi2O2â€²CO3 nanosheets on their photocatalytic NO removal performance. Chemical Engineering Journal, 2019, 363, 374-382.	12.7	56
130	Structure-Property relationship in Î²-keto-enamine-based covalent organic frameworks for highly efficient photocatalytic hydrogen production. Chemical Engineering Journal, 2021, 419, 129984.	12.7	56
131	Recent Development of Plasmonic Resonance-Based Photocatalysis and Photovoltaics for Solar Utilization. Molecules, 2016, 21, 180.	3.8	54
132	In situ g-C₃N₄ self-sacrificial synthesis of a g-C₃N₄/LaCO₃OH heterostructure with strong interfacial charge transfer and separation for photocatalytic NO removal. Journal of Materials Chemistry A, 2018, 6, 972-981.	10.3	54
133	Urea and Melamine Formaldehyde Resin-Derived Tubular g-C₃N₄ with Highly Efficient Photocatalytic Performance. ACS Applied Materials & Interfaces, 2019, 11, 27934-27943.	8.0	54
134	Preparation and photocatalytic behavior of MoS2 and WS2 nanocluster sensitized TiO2. Langmuir, 2004, 20, 5865-9.	3.5	54
135	Enhanced photocatalytic removal of NO over titania/hydroxyapatite (TiO₂/HAp) composites with improved adsorption and charge mobility ability. RSC Advances, 2017, 7, 24683-24689.	3.6	52
136	Chemical etching fabrication of uniform mesoporous Bi@Bi2O3 nanospheres with enhanced visible light-induced photocatalytic oxidation performance for NOx. Chemical Engineering Journal, 2021, 406, 126910.	12.7	51
137	Preparation of a highly active nanocrystalline TiO2 photocatalyst from titanium oxo cluster precursor. Journal of Solid State Chemistry, 2004, 177, 2584-2590.	2.9	50
138	Construction of the 1D Covalent Organic Framework/2D g-C₃N₄ Heterojunction with High Apparent Quantum Efficiency at 500 nm. ACS Applied Materials & Interfaces, 2020, 12, 51555-51562.	8.0	50
139	Synthesis of SrFexTi1-xO3-Î´ nanocubes with tunable oxygen vacancies for selective and efficient photocatalytic NO oxidation. Applied Catalysis B: Environmental, 2018, 239, 1-9.	20.2	46
140	Graphdiyne: A Brilliant Hole Accumulator for Stable and Efficient Planar Perovskite Solar Cells. Small, 2020, 16, e1907290.	10.0	45
141	Enhanced photocatalytic activity and mechanism of CeO2 hollow spheres for tetracycline degradation. Rare Metals, 2021, 40, 2369-2380.	7.1	44
142	Highly photoreactive TiO2 hollow microspheres with super thermal stability for acetone oxidation. Chinese Journal of Catalysis, 2017, 38, 2085-2093.	14.0	42
143	Lowâ€Temperatureâ€Processed Zr/F Coâ€Doped SnO₂ Electron Transport Layer for Highâ€Efficiency Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000090.	5.8	42
144	Photocatalytic TiO2/Glass Nanoflake Array Films. Langmuir, 2005, 21, 3486-3492.	3.5	41

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145	Photocatalytic activity and photo-induced hydrophilicity of mesoporous TiO2 thin films coated on aluminum substrate. Applied Catalysis B: Environmental, 2007, 73, 135-143.	20.2	40
146	Simultaneous excitation of PdCl2 hybrid mesoporous g-C3N4 molecular/solid-state photocatalysts for enhancing the visible-light-induced oxidative removal of nitrogen oxides. Applied Catalysis B: Environmental, 2016, 184, 174-181.	20.2	39
147	Active Complexes on Engineered Crystal Facets of MnO_xâ€“CeO₂ and Scale-Up Demonstration on an Air Cleaner for Indoor Formaldehyde Removal. Environmental Science & Technology, 2019, 53, 10906-10916.	10.0	36
148	Grapheneâ€Based Materials in Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000502.	5.8	36
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