Yi-Jun Xu

List of Publications by Year
in descending order

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252	39,792	2203	2558
papers	citations	99 h-index	195 g-index

265	265	265	31706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. Chemical Society Reviews, 2017, 46, 337-365.	18.7	4,505
2	Defective TiO2 with oxygen vacancies: synthesis, properties and photocatalytic applications. Nanoscale, 2013, 5, 3601.	2.8	1,727
3	TiO₂â^'Graphene Nanocomposites for Gas-Phase Photocatalytic Degradation of Volatile Aromatic Pollutant: Is TiO₂â^'Graphene Truly Different from Other TiO₂â^'Carbon Composite Materials?. ACS Nano, 2010, 4, 7303-7314.	7.3	1,559
4	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. Chemical Reviews, 2015, 115, 10307-10377.	23.0	1,017
5	Tunable gold catalysts for selective hydrocarbon oxidation under mild conditions. Nature, 2005, 437, 1132-1135.	13.7	955
6	Recent progress on graphene-based photocatalysts: current status and future perspectives. Nanoscale, 2012, 4, 5792.	2.8	883
7	Recent progress in carbon quantum dots: synthesis, properties and applications in photocatalysis. Journal of Materials Chemistry A, 2017, 5, 3717-3734.	5.2	853
8	Engineering the Unique 2D Mat of Graphene to Achieve Graphene-TiO₂ Nanocomposite for Photocatalytic Selective Transformation: What Advantage does Graphene Have over Its Forebear Carbon Nanotube?. ACS Nano, 2011, 5, 7426-7435.	7.3	662
9	Graphene Transforms Wide Band Gap ZnS to a Visible Light Photocatalyst. The New Role of Graphene as a Macromolecular Photosensitizer. ACS Nano, 2012, 6, 9777-9789.	7.3	642
10	Synthesis of M@TiO₂ (M = Au, Pd, Pt) Coreâ€“Shell Nanocomposites with Tunable Photoreactivity. Journal of Physical Chemistry C, 2011, 115, 9136-9145.	1.5	558
11	Artificial photosynthesis over grapheneâ€“semiconductor composites. Are we getting better?. Chemical Society Reviews, 2014, 43, 8240-8254.	18.7	534
12	New Insight for Enhanced Photocatalytic Activity of TiO₂ by Doping Carbon Nanotubes: A Case Study on Degradation of Benzene and Methyl Orange. Journal of Physical Chemistry C, 2010, 114, 2669-2676.	1.5	507
13	Photocorrosion Inhibition of Semiconductor-Based Photocatalysts: Basic Principle, Current Development, and Future Perspective. ACS Catalysis, 2019, 9, 4642-4687.	5.5	432
14	Cooperative Coupling of Oxidative Organic Synthesis and Hydrogen Production over Semiconductor-Based Photocatalysts. Chemical Reviews, 2021, 121, 13051-13085.	23.0	426
15	Hierarchically CdS Decorated 1D ZnO Nanorodsâ€2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance. Advanced Functional Materials, 2015, 25, 221-229.	7.8	394
16	Nickel Metalâ€“Organic Framework Monolayers for Photoreduction of Diluted CO₂: Metalâ€Nodeâ€Dependent Activity and Selectivity. Angewandte Chemie - International Edition, 2018, 57, 16811-16815.	7.2	387
17	Recent progress on metal core@semiconductor shell nanocomposites as a promising type of photocatalyst. Nanoscale, 2012, 4, 2227.	2.8	380
18	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. Physical Chemistry Chemical Physics, 2014, 16, 16891.	1.3	374

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19	Nanochemistry-derived Bi₂WO₆nanostructures: towards production of sustainable chemicals and fuels induced by visible light. Chemical Society Reviews, 2014, 43, 5276-5287.	18.7	368
20	One-dimension-based spatially ordered architectures for solar energy conversion. Chemical Society Reviews, 2015, 44, 5053-5075.	18.7	367
21	Photocatalytic conversion of CO2 into value-added and renewable fuels. Applied Surface Science, 2015, 342, 154-167.	3.1	363
22	Toward Improving the Grapheneâ€“Semiconductor Composite Photoactivity via the Addition of Metal Ions as Generic Interfacial Mediator. ACS Nano, 2014, 8, 623-633.	7.3	352
23	Synthesis of One-Dimensional CdS@TiO₂ Coreâ€“Shell Nanocomposites Photocatalyst for Selective Redox: The Dual Role of TiO₂ Shell. ACS Applied Materials & Interfaces, 2012, 4, 6378-6385.	4.0	345
24	Synthesis of Fullereneâ€“, Carbon Nanotubeâ€“, and Grapheneâ€“TiO₂ Nanocomposite Photocatalysts for Selective Oxidation: A Comparative Study. ACS Applied Materials & Interfaces, 2013, 5, 1156-1164.	4.0	340
25	One-dimensional CdS@MoS2 core-shell nanowires for boosted photocatalytic hydrogen evolution under visible light. Applied Catalysis B: Environmental, 2017, 202, 298-304.	10.8	334
26	Assembly of CdS Nanoparticles on the Two-Dimensional Graphene Scaffold as Visible-Light-Driven Photocatalyst for Selective Organic Transformation under Ambient Conditions. Journal of Physical Chemistry C, 2011, 115, 23501-23511.	1.5	333
27	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. Nature Communications, 2017, 8, 14224.	5.8	318
28	Identification of Bi2WO6 as a highly selective visible-light photocatalyst toward oxidation of glycerol to dihydroxyacetone in water. Chemical Science, 2013, 4, 1820.	3.7	313
29	Synthesis of grapheneâ€“ZnO nanorod nanocomposites with improved photoactivity and anti-photocorrosion. CrystEngComm, 2013, 15, 3022.	1.3	309
30	Constructing Ternary CdSâ€“Grapheneâ€“TiO₂ Hybrids on the Flatland of Graphene Oxide with Enhanced Visible-Light Photoactivity for Selective Transformation. Journal of Physical Chemistry C, 2012, 116, 18023-18031.	1.5	306
31	Selective photoredox using graphene-based composite photocatalysts. Physical Chemistry Chemical Physics, 2013, 15, 19102.	1.3	302
32	Near-field dielectric scattering promotes optical absorption by platinum nanoparticles. Nature Photonics, 2016, 10, 473-482.	15.6	298
33	Layer-by-layer assembly of versatile nanoarchitectures with diverse dimensionality: a new perspective for rational construction of multilayer assemblies. Chemical Society Reviews, 2016, 45, 3088-3121.	18.7	294
34	Photocatalytic water splitting for solar hydrogen generation: fundamentals and recent advancements. International Reviews in Physical Chemistry, 2016, 35, 1-36.	0.9	288
35	Structural diversity of graphene materials and their multifarious roles in heterogeneous photocatalysis. Nano Today, 2016, 11, 351-372.	6.2	283
36	Improving the photocatalytic performance of grapheneâ€“TiO2 nanocomposites via a combined strategy of decreasing defects of graphene and increasing interfacial contact. Physical Chemistry Chemical Physics, 2012, 14, 9167.	1.3	277

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37	Defect-Mediated Growth of Noble-Metal (Ag, Pt, and Pd) Nanoparticles on TiO₂ with Oxygen Vacancies for Photocatalytic Redox Reactions under Visible Light. Journal of Physical Chemistry C, 2013, 117, 17996-18005.	1.5	273
38	Microstructure and surface control of MXene films for water purification. Nature Sustainability, 2019, 2, 856-862.	11.5	273
39	Insight into the Effect of Highly Dispersed MoS₂ versus Layer-Structured MoS₂ on the Photocorrosion and Photoactivity of CdS in Grapheneâ€“CdSâ€“MoS₂ Composites. Journal of Physical Chemistry C, 2015, 119, 27234-27246.	1.5	254
40	Ti₃C₂T_x-Based Three-Dimensional Hydrogel by a Graphene Oxide-Assisted Self-Convergence Process for Enhanced Photoredox Catalysis. ACS Nano, 2019, 13, 295-304.	7.3	247
41	A sustainable approach for lignin valorization by heterogeneous photocatalysis. Green Chemistry, 2016, 18, 594-607.	4.6	238
42	Aggregation- and Leaching-Resistant, Reusable, and Multifunctional Pd@CeO₂ as a Robust Nanocatalyst Achieved by a Hollow Coreâ€“Shell Strategy. Chemistry of Materials, 2013, 25, 1979-1988.	3.2	230
43	Dynamic Evolution of Atomically Dispersed Cu Species for CO₂ Photoreduction to Solar Fuels. ACS Catalysis, 2019, 9, 4824-4833.	5.5	230
44	Transforming CdS into an efficient visible light photocatalyst for selective oxidation of saturated primary Câ€“H bonds under ambient conditions. Chemical Science, 2012, 3, 2812.	3.7	229
45	Synthesis of Uniform CdS Nanospheres/Graphene Hybrid Nanocomposites and Their Application as Visible Light Photocatalyst for Selective Reduction of Nitro Organics in Water. ACS Applied Materials & Interfaces, 2013, 5, 4309-4319.	4.0	227
46	Stabilizing ultrasmall Au clusters for enhanced photoredox catalysis. Nature Communications, 2018, 9, 1543.	5.8	223
47	A facile and green approach to synthesize Pt@CeO2 nanocomposite with tunable core-shell and yolk-shell structure and its application as a visible light photocatalyst. Journal of Materials Chemistry, 2011, 21, 8152.	6.7	218
48	Boosting the activity and stability of Ag-Cu2O/ZnO nanorods for photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2020, 268, 118380.	10.8	211
49	Selective Organic Transformations over Cadmium Sulfide-Based Photocatalysts. ACS Catalysis, 2020, 10, 6262-6280.	5.5	211
50	Nanocomposite of Agâ€“AgBrâ€“TiO2 as a photoactive and durable catalyst for degradation of volatile organic compounds in the gas phase. Applied Catalysis B: Environmental, 2011, 106, 445-452.	10.8	209
51	One-dimensional nanostructure based materials for versatile photocatalytic applications. RSC Advances, 2014, 4, 12685.	1.7	205
52	Rationally designed transition metal hydroxide nanosheet arrays on graphene for artificial CO2 reduction. Nature Communications, 2020, 11, 5181.	5.8	205
53	Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. Journal of Materials Chemistry A, 2014, 2, 9380.	5.2	204
54	3D graphene-based gel photocatalysts for environmental pollutants degradation. Environmental Pollution, 2019, 253, 365-376.	3.7	204

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55	CdSâ€“graphene nanocomposites as visible light photocatalyst for redox reactions in water: A green route for selective transformation and environmental remediation. Journal of Catalysis, 2013, 303, 60-69.	3.1	202
56	Size effect induced activity enhancement and anti-photocorrosion of reduced graphene oxide/ZnO composites for degradation of organic dyes and reduction of Cr(VI) in water. Applied Catalysis B: Environmental, 2013, 140-141, 598-607.	10.8	202
57	Observing the Role of Graphene in Boosting the Two-Electron Reduction of Oxygen in Grapheneâ€“WO₃ Nanorod Photocatalysts. Langmuir, 2014, 30, 5574-5584.	1.6	192
58	One dimensional CdS based materials for artificial photoredox reactions. Journal of Materials Chemistry A, 2017, 5, 2387-2410.	5.2	190
59	An Efficient Self-Assembly of CdS Nanowiresâ€“Reduced Graphene Oxide Nanocomposites for Selective Reduction of Nitro Organics under Visible Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 8251-8261.	1.5	186
60	Coupling Strategy for CO₂Valorization Integrated with Organic Synthesis by Heterogeneous Photocatalysis. Angewandte Chemie - International Edition, 2021, 60, 21150-21172.	7.2	182
61	Photocatalytic conversion of CO₂ over graphene-based composites: current status and future perspective. Nanoscale Horizons, 2016, 1, 185-200.	4.1	180
62	Emerging dynamic structure of electrocatalysts unveiled byin situX-ray diffraction/absorption spectroscopy. Energy and Environmental Science, 2021, 14, 1928-1958.	15.6	179
63	Two-Dimensional MoS₂ Nanosheet-Coated Bi₂S₃ Discoids: Synthesis, Formation Mechanism, and Photocatalytic Application. Langmuir, 2015, 31, 4314-4322.	1.6	178
64	Nanostructured metal phosphides: from controllable synthesis to sustainable catalysis. Chemical Society Reviews, 2021, 50, 7539-7586.	18.7	177
65	Ti3C2Tx MXene as a Janus cocatalyst for concurrent promoted photoactivity and inhibited photocorrosion. Applied Catalysis B: Environmental, 2018, 237, 43-49.	10.8	174
66	Noble metal free, CeO2/LaMnO3 hybrid achieving efficient photo-thermal catalytic decomposition of volatile organic compounds under IR light. Applied Catalysis B: Environmental, 2019, 240, 141-152.	10.8	173
67	Photoredox catalysis over graphene aerogel-supported composites. Journal of Materials Chemistry A, 2018, 6, 4590-4604.	5.2	171
68	A facile one-step way to anchor noble metal (Au, Ag, Pd) nanoparticles on a reduced graphene oxide mat with catalytic activity for selective reduction of nitroaromatic compounds. CrystEngComm, 2013, 15, 6819.	1.3	168
69	A critical and benchmark comparison on graphene-, carbon nanotube-, and fullerene-semiconductor nanocomposites as visible light photocatalysts for selective oxidation. Journal of Catalysis, 2013, 299, 210-221.	3.1	166
70	Ultrathin TiO₂ Layer Coated-CdS Spheres Coreâ€“Shell Nanocomposite with Enhanced Visible-Light Photoactivity. ACS Applied Materials & Interfaces, 2013, 5, 13353-13363.	4.0	165
71	A simple yet efficient visible-light-driven CdS nanowires-carbon nanotube 1Dâ€“1D nanocomposite photocatalyst. Journal of Catalysis, 2014, 309, 146-155.	3.1	161
72	Visible-light-driven integrated organic synthesis and hydrogen evolution over 1D/2D CdS-Ti3C2Tx MXene composites. Applied Catalysis B: Environmental, 2020, 269, 118783.	10.8	159

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73	Photothermal catalytic CO2 reduction over nanomaterials. Chem Catalysis, 2021, 1, 272-297.	2.9	150
74	Photoredox-catalyzed biomass intermediate conversion integrated with H₂ production over Ti₃C₂T_x/CdS composites. Green Chemistry, 2020, 22, 163-169.	4.6	149
75	Improving the Visible Light Photoactivity of In₂S₃â€“Graphene Nanocomposite via a Simple Surface Charge Modification Approach. Langmuir, 2013, 29, 10549-10558.	1.6	147
76	Function-Oriented Engineering of Metal-Based Nanohybrids for Photoredox Catalysis: Exerting Plasmonic Effect and Beyond. CheM, 2018, 4, 1832-1861.	5.8	147
77	Transition metal doping BiOBr nanosheets with oxygen vacancy and exposed {102} facets for visible light nitrogen fixation. Applied Catalysis B: Environmental, 2021, 281, 119516.	10.8	141
78	Fabrication of coenocytic Pd@CdS nanocomposite as a visible light photocatalyst for selective transformation under mild conditions. Journal of Materials Chemistry, 2012, 22, 5042.	6.7	139
79	Tuning the surface charge of graphene for self-assembly synthesis of a SnNb2O6 nanosheetâ€“graphene (2Dâ€“2D) nanocomposite with enhanced visible light photoactivity. Nanoscale, 2014, 6, 6335.	2.8	138
80	Basic Principles for Observing the Photosensitizer Role of Graphene in the Grapheneâ€“Semiconductor Composite Photocatalyst from a Case Study on Grapheneâ€“ZnO. Journal of Physical Chemistry C, 2013, 117, 21724-21734.	1.5	137
81	Enhancing the visible light photocatalytic performance of ternary CdSâ€“(grapheneâ€“Pd) nanocomposites via a facile interfacial mediator and co-catalyst strategy. Journal of Materials Chemistry A, 2014, 2, 19156-19166.	5.2	130
82	Efficient Photoredox-Mediated Câ€“C Coupling Organic Synthesis and Hydrogen Production over Engineered Semiconductor Quantum Dots. ACS Catalysis, 2020, 10, 14327-14335.	5.5	128
83	Multifarious roles of carbon quantum dots in heterogeneous photocatalysis. Journal of Energy Chemistry, 2016, 25, 927-935.	7.1	127
84	Photoredox dual reaction for selective alcohol oxidation and hydrogen evolution over nickel surface-modified ZnIn2S4. Applied Catalysis B: Environmental, 2020, 271, 118946.	10.8	125
85	Morphology control, defect engineering and photoactivity tuning of ZnO crystals by graphene oxide â€“ a unique 2D macromolecular surfactant. Physical Chemistry Chemical Physics, 2014, 16, 5589.	1.3	124
86	Vertically aligned ZnOâ€“Au@CdS coreâ€“shell nanorod arrays as an all-solid-state vectorial Z-scheme system for photocatalytic application. Journal of Materials Chemistry A, 2016, 4, 18804-18814.	5.2	122
87	A Simple Strategy for Fabrication of â€œPlum-Puddingâ€•Type Pd@CeO₂ Semiconductor Nanocomposite as a Visible-Light-Driven Photocatalyst for Selective Oxidation. Journal of Physical Chemistry C, 2011, 115, 22901-22909.	1.5	121
88	Graphene and its derivatives as versatile templates for materials synthesis and functional applications. Nanoscale, 2017, 9, 2398-2416.	2.8	121
89	A facile and high-yield approach to synthesize one-dimensional CeO2 nanotubes with well-shaped hollow interior as a photocatalyst for degradation of toxic pollutants. RSC Advances, 2011, 1, 1772.	1.7	119
90	Cooperative Syngas Production and Câ^'N Bond Formation in One Photoredox Cycle. Angewandte Chemie - International Edition, 2021, 60, 7962-7970.	7.2	118

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91	Multichannel Charge Transfer and Mechanistic Insight in Metal Decorated 2Dâ€“2D Bi₂WO₆â€“TiO₂ Cascade with Enhanced Photocatalytic Performance. Small, 2017, 13, 1702253.	5.2	117
92	Visible-Light-Driven Oxidation of Primary Câ€“H Bonds over CdS with Dual Co-catalysts Graphene and TiO2. Scientific Reports, 2013, 3, 3314.	1.6	116
93	Cocatalyst decorated ZnIn2S4 composites for cooperative alcohol conversion and H2 evolution. Applied Catalysis B: Environmental, 2021, 298, 120541.	10.8	116
94	Composites of Titanate Nanotube and Carbon Nanotube as Photocatalyst with High Mineralization Ratio for Gas-Phase Degradation of Volatile Aromatic Pollutant. Journal of Physical Chemistry C, 2011, 115, 7880-7886.	1.5	115
95	Surface charge promotes the synthesis of large, flat structured grapheneâ€“(CdS) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td Materials Chemistry A, 2014, 2, 430-440.	5.2	112
96	3D carbon quantum dots/graphene aerogel as a metal-free catalyst for enhanced photosensitization efficiency. Applied Catalysis B: Environmental, 2018, 233, 11-18.	10.8	112
97	Unveiling the interplay between light-driven CO2 photocatalytic reduction and carbonaceous residues decomposition: A case study of Bi2WO6-TiO2 binanosheets. Applied Catalysis B: Environmental, 2018, 237, 424-431.	10.8	110
98	Efficient infrared light promoted degradation of volatile organic compounds over photo-thermal responsive Pt-rGO-TiO2 composites. Applied Catalysis B: Environmental, 2018, 233, 260-271.	10.8	106
99	One-dimensional copper-based heterostructures toward photo-driven reduction of CO₂to sustainable fuels and feedstocks. Journal of Materials Chemistry A, 2019, 7, 8676-8689.	5.2	106
100	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. Nano Today, 2019, 27, 48-72.	6.2	104
101	Bimetallic nanoparticles as cocatalysts for versatile photoredox catalysis. EnergyChem, 2021, 3, 100047.	10.1	103
102	Hierarchical NiCo2O4 hollow nanocages for photoreduction of diluted CO2: Adsorption and active sites engineering. Applied Catalysis B: Environmental, 2020, 260, 118208.	10.8	101
103	Synthesis of In₂S₃â€“CNT nanocomposites for selective reduction under visible light. Journal of Materials Chemistry A, 2014, 2, 1710-1720.	5.2	99
104	A nanotree-like CdS/ZnO nanocomposite with spatially branched hierarchical structure for photocatalytic fine-chemical synthesis. Nanoscale, 2014, 6, 7193.	2.8	99
105	Efficient promotion of charge transfer and separation in hydrogenated TiO2/WO3 with rich surface-oxygen-vacancies for photodecomposition of gaseous toluene. Journal of Hazardous Materials, 2018, 342, 661-669.	6.5	99
106	Noble metal free CdS@CuS-NixP hybrid with modulated charge transfer for enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2019, 257, 117934.	10.8	99
107	Selective oxidation of benzyl alcohol over TiO2 nanosheets with exposed {001} facets: Catalyst deactivation and regeneration. Applied Catalysis A: General, 2013, 453, 181-187.	2.2	97
108	Graphene Oxide as a Surfactant and Support for In-Situ Synthesis of Auâ€“Pd Nanoalloys with Improved Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2014, 118, 5299-5308.	1.5	97

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109	Stressâ€Transferâ€Induced Inâ€…Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 13082-13085.	7.2	97
110	Heterostructured semiconductor nanowire arrays for artificial photosynthesis. Materials Horizons, 2016, 3, 270-282.	6.4	95
111	A low-temperature and one-step method for fabricating ZnIn₂S₄â€“GR nanocomposites with enhanced visible light photoactivity. Journal of Materials Chemistry A, 2014, 2, 14401.	5.2	94
112	Tuning the Optical Property and Photocatalytic Performance of Titanate Nanotube toward Selective Oxidation of Alcohols under Ambient Conditions. ACS Applied Materials & Interfaces, 2012, 4, 1512-1520.	4.0	93
113	Switching Light for Site-Directed Spatial Loading of Cocatalysts onto Heterojunction Photocatalysts with Boosted Redox Catalysis. ACS Catalysis, 2020, 10, 3194-3202.	5.5	93
114	Fast and spontaneous reduction of gold ions over oxygen-vacancy-rich TiO2: A novel strategy to design defect-based composite photocatalyst. Applied Catalysis A: General, 2013, 459, 34-40.	2.2	92
115	Nanoarchitecturing of Activated Carbon: Facile Strategy for Chemical Functionalization of the Surface of Activated Carbon. Advanced Functional Materials, 2008, 18, 3613-3619.	7.8	91
116	Decorating geometry- and size-controlled sub-20 nm Pd nanocubes onto 2D TiO₂ nanosheets for simultaneous H₂ evolution and 1,1-diethoxyethane production. Journal of Materials Chemistry A, 2016, 4, 18366-18377.	5.2	90
117	Efficient photoredox conversion of alcohol to aldehyde and H₂ by heterointerface engineering of bimetalâ€“semiconductor hybrids. Chemical Science, 2019, 10, 3514-3522.	3.7	90
118	The endeavour to advance grapheneâ€“semiconductor composite-based photocatalysis. CrystEngComm, 2016, 18, 24-37.	1.3	89
119	Progressive Design of Plasmonic Metalâ€“Semiconductor Ensemble toward Regulated Charge Flow and Improved Visâ€“NIRâ€Driven Solarâ€toâ€Chemical Conversion. Small, 2017, 13, 1602947.	5.2	88
120	Bi₂WO₆: A highly chemoselective visible light photocatalyst toward aerobic oxidation of benzylic alcohols in water. RSC Advances, 2014, 4, 2904-2910.	1.7	87
121	3D graphene/AgBr/Ag cascade aerogel for efficient photocatalytic disinfection. Applied Catalysis B: Environmental, 2019, 245, 343-350.	10.8	87
122	Heterogeneously Catalyzed Alcohol Oxidation for the Fine Chemical Industry. Organic Process Research and Development, 2015, 19, 1554-1558.	1.3	86
123	Metal-free, robust, and regenerable 3D grapheneâ€“organics aerogel with high and stable photosensitization efficiency. Journal of Catalysis, 2017, 346, 21-29.	3.1	86
124	Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. Angewandte Chemie - International Edition, 2019, 58, 10003-10007.	7.2	86
125	New approaches to designing selective oxidation catalysts: Au/C a versatile catalyst. Topics in Catalysis, 2006, 38, 223-230.	1.3	83
126	Selective conversion of cyclohexane to cyclohexanol and cyclohexanone using a gold catalyst under mild conditions. Catalysis Letters, 2005, 101, 175-179.	1.4	82

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127	Constructing one-dimensional silver nanowire-doped reduced graphene oxide integrated with CdS nanowire network hybrid structures toward artificial photosynthesis. Nanoscale, 2015, 7, 861-866.	2.8	81
128	Tunable plasmonic coreâ€“shell heterostructure design for broadband light driven catalysis. Chemical Science, 2018, 9, 8914-8922.	3.7	80
129	Activating two-dimensional Ti3C2Tx-MXene with single-atom cobalt for efficient CO2 photoreduction. Cell Reports Physical Science, 2021, 2, 100371.	2.8	80
130	Hybridization of graphene oxide with commercial graphene for constructing 3D metal-free aerogel with enhanced photocatalysis. Applied Catalysis B: Environmental, 2018, 226, 16-22.	10.8	79
131	Photoredox coupling of benzyl alcohol oxidation with CO2 reduction over CdS/TiO2 heterostructure under visible light irradiation. Applied Catalysis B: Environmental, 2022, 307, 121158.	10.8	78
132	Photo-induced transformation process at gold clusters-semiconductor interface: Implications for the complexity of gold clusters-based photocatalysis. Scientific Reports, 2016, 6, 22742.	1.6	77
133	Earth-Abundant MoS₂ and Cobalt Phosphate Dual Cocatalysts on 1D CdS Nanowires for Boosting Photocatalytic Hydrogen Production. Langmuir, 2019, 35, 11056-11065.	1.6	77
134	Origin of Enhancing the Photocatalytic Performance of TiO₂ for Artificial Photoreduction of CO₂ through a SiO₂ Coating Strategy. Journal of Physical Chemistry C, 2016, 120, 265-273.	1.5	76
135	A Unique Silk Mat-Like Structured Pd/CeO₂ as an Efficient Visible Light Photocatalyst for Green Organic Transformation in Water. ACS Sustainable Chemistry and Engineering, 2013, 1, 1258-1266.	3.2	74
136	Synthesis of Titanate Nanotubeâ€“CdS Nanocomposites with Enhanced Visible Light Photocatalytic Activity. Inorganic Chemistry, 2013, 52, 11758-11766.	1.9	74
137	Commercialization of graphene-based technologies: a critical insight. Chemical Communications, 2015, 51, 7090-7095.	2.2	74
138	Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. Nanoscale, 2015, 7, 18062-18070.	2.8	67
139	The interaction of molecular oxygen with active sites of graphite: a theoretical study. Chemical Physics Letters, 2004, 400, 406-412.	1.2	66
140	Multifunctional graphene-based composite photocatalysts oriented by multifaced roles of graphene in photocatalysis. Chinese Journal of Catalysis, 2022, 43, 708-730.	6.9	65
141	Efficient electrostatic self-assembly of one-dimensional CdSâ€“Au nanocomposites with enhanced photoactivity, not the surface plasmon resonance effect. Nanoscale, 2013, 5, 9330.	2.8	64
142	New insight into the enhanced visible light photocatalytic activity over boron-doped reduced graphene oxide. Nanoscale, 2015, 7, 7030-7034.	2.8	62
143	Efficient Thermal- and Photocatalyst of Pd Nanoparticles on TiO₂ Achieved by an Oxygen Vacancies Promoted Synthesis Strategy. ACS Applied Materials & Interfaces, 2014, 6, 1879-1886.	4.0	60
144	1D CdS nanowireâ€“2D BiVO₄ nanosheet heterostructures toward photocatalytic selective fine-chemical synthesis. RSC Advances, 2015, 5, 16476-16483.	1.7	60

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145	Graphene-Templated Bottom-up Fabrication of Ultralarge Binary CdSâ€“TiO₂ Nanosheets for Photocatalytic Selective Reduction. Journal of Physical Chemistry C, 2015, 119, 7184-7194.	1.5	59
146	Unexpected Boosted Solar Water Oxidation by Nonconjugated Polymer-Mediated Tandem Charge Transfer. Journal of the American Chemical Society, 2020, 142, 21899-21912.	6.6	59
147	Characterization and use of functionalized carbon nanotubes for the adsorption of heavy metal anions. New Carbon Materials, 2011, 26, 57-62.	2.9	57
148	Roles of Graphene Oxide in Heterogeneous Photocatalysis. ACS Materials Au, 2021, 1, 37-54.	2.6	56
149	One-pot, high-yield synthesis of one-dimensional ZnO nanorods with well-defined morphology as a highly selective photocatalyst. RSC Advances, 2013, 3, 5956.	1.7	55
150	CO adsorption on MgO() surface with oxygen vacancy and its low-coordinated surface sites: embedded cluster model density functional study employing charge self-consistent technique. Surface Science, 2003, 525, 13-23.	0.8	54
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