

# Baibiao Huang

## List of Publications by Year in descending order

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749  
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#	ARTICLE	IF	CITATIONS
1	Ag@AgCl: A Highly Efficient and Stable Photocatalyst Active under Visible Light. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7931-7933.	7.2	1,304
2	Oxygen Vacancy Induced Band-Gap Narrowing and Enhanced Visible Light Photocatalytic Activity of ZnO. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4024-4030.	4.0	1,269
3	Engineering BiOX (X = Cl, Br, I) nanostructures for highly efficient photocatalytic applications. <i>Nanoscale</i> , 2014, 6, 2009.	2.8	987
4	Fabrication and Characterization of Visible-Light-Driven Plasmonic Photocatalyst Ag/AgCl/TiO <sub>2</sub> Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16394-16401.	1.5	770
5	Evidence of the Existence of Magnetism in Pristine VX <sub>2</sub> Monolayers (X = S, Se) and Their Strain-Induced Tunable Magnetic Properties. <i>ACS Nano</i> , 2012, 6, 1695-1701.	7.3	733
6	Plasmonic photocatalysts: harvesting visible light with noble metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9813.	1.3	729
7	One-Step Synthesis of the Nanostructured AgI/BiOI Composites with Highly Enhanced Visible-Light Photocatalytic Performances. <i>Langmuir</i> , 2010, 26, 6618-6624.	1.6	543
8	Facile in situ synthesis of visible-light plasmonic photocatalysts M@TiO <sub>2</sub> (M = Au, Pt, Ag) and evaluation of their photocatalytic oxidation of benzene to phenol. <i>Journal of Materials Chemistry</i> , 2011, 21, 9079.	6.7	541
9	Highly Efficient Visible-Light Plasmonic Photocatalyst Ag@AgBr. <i>Chemistry - A European Journal</i> , 2009, 15, 1821-1824.	1.7	535
10	In-Situ-Reduced Synthesis of Ti <sup>3+</sup> Self-Doped TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9023-9030.	4.0	489
11	In situ ion exchange synthesis of the novel Ag/AgBr/BiOBr hybrid with highly efficient decontamination of pollutants. <i>Chemical Communications</i> , 2011, 47, 7054.	2.2	433
12	Electronic and magnetic properties of perfect, vacancy-doped, and nonmetal adsorbed MoSe <sub>2</sub> , MoTe <sub>2</sub> and WS <sub>2</sub> monolayers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15546.	1.3	428
13	Synthesis of Highly Efficient Ag@AgCl Plasmonic Photocatalysts with Various Structures. <i>Chemistry - A European Journal</i> , 2010, 16, 538-544.	1.7	394
14	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. <i>Nano Energy</i> , 2016, 27, 138-146.	8.2	379
15	Crystal Faces of Cu <sub>2</sub> O and Their Stabilities in Photocatalytic Reactions. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14448-14453.	1.5	361
16	Graphene adhesion on MoS <sub>2</sub> monolayer: An ab initio study. <i>Nanoscale</i> , 2011, 3, 3883.	2.8	346
17	Dual-Mode On-to-Off Modulation of Plasmon-Induced Transparency and Coupling Effect in Patterned Graphene-Based Terahertz Metasurface. <i>Nanoscale Research Letters</i> , 2020, 15, 1.	3.1	337
18	Ab Initio Prediction and Characterization of Mo <sub>2</sub> C Monolayer as Anodes for Lithium-Ion and Sodium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 937-943.	2.1	334

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19	Ag/AgBr/WO <sub>3</sub> ·H <sub>2</sub> O: Visible-Light Photocatalyst for Bacteria Destruction. <i>Inorganic Chemistry</i> , 2009, 48, 10697-10702.	1.9	320
20	Composite of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> with Reduced Graphene Oxide as a Highly Efficient and Stable Visible-Light Photocatalyst for Hydrogen Evolution in Aqueous HI Solution. <i>Advanced Materials</i> , 2018, 30, 1704342.	11.1	302
21	Electronic and Optical Properties of Pristine and Vertical and Lateral Heterostructures of Janus MoSSe and WSSe. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5959-5965.	2.1	293
22	Hydrothermal Synthesis and Visible-light Photocatalytic Activity of Novel Cage-like Ferric Oxide Hollow Spheres. <i>Crystal Growth and Design</i> , 2009, 9, 1474-1480.	1.4	291
23	Hydrogenated titania: synergy of surface modification and morphology improvement for enhanced photocatalytic activity. <i>Chemical Communications</i> , 2012, 48, 5733.	2.2	285
24	An anion exchange approach to Bi <sub>2</sub> WO <sub>6</sub> hollow microspheres with efficient visible light photocatalytic reduction of CO <sub>2</sub> to methanol. <i>Chemical Communications</i> , 2012, 48, 9729.	2.2	273
25	Chemical Adsorption Enhanced CO <sub>2</sub> Capture and Photoreduction over a Copper Porphyrin Based Metal Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7654-7658.	4.0	273
26	Two-dimensional Janus PtSSe for photocatalytic water splitting under the visible or infrared light. <i>Journal of Materials Chemistry A</i> , 2019, 7, 603-610.	5.2	268
27	Synergistic effect of crystal and electronic structures on the visible-light-driven photocatalytic performances of Bi <sub>2</sub> O <sub>3</sub> polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15468.	1.3	261
28	Selective ethanol formation from photocatalytic reduction of carbon dioxide in water with BiVO <sub>4</sub> photocatalyst. <i>Catalysis Communications</i> , 2009, 11, 210-213.	1.6	256
29	Ultrabroadband MoS <sub>2</sub> Photodetector with Spectral Response from 445 to 2717 nm. <i>Advanced Materials</i> , 2017, 29, 1605972.	11.1	256
30	Synergetic Effect of Ti <sup>3+</sup> and Oxygen Doping on Enhancing Photoelectrochemical and Photocatalytic Properties of TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11577-11586.	4.0	253
31	A controlled anion exchange strategy to synthesize Bi <sub>2</sub> S <sub>3</sub> nanocrystals/BiOCl hybrid architectures with efficient visible light photoactivity. <i>Chemical Communications</i> , 2012, 48, 97-99.	2.2	252
32	Understanding Photocatalytic Activity of S- and P-Doped TiO <sub>2</sub> under Visible Light from First-Principles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18985-18994.	1.5	236
33	Metal-Free B@g-CN: Visible/Infrared Light-Driven Single Atom Photocatalyst Enables Spontaneous Dinitrogen Reduction to Ammonia. <i>Nano Letters</i> , 2019, 19, 6391-6399.	4.5	236
34	One-Pot Template-Free Synthesis of Monodisperse Zinc Sulfide Hollow Spheres and Their Photocatalytic Properties. <i>Chemistry - A European Journal</i> , 2009, 15, 6731-6739.	1.7	229
35	High-Throughput Screening of Synergistic Transition Metal Dual-Atom Catalysts for Efficient Nitrogen Fixation. <i>Nano Letters</i> , 2021, 21, 1871-1878.	4.5	223
36	Study of the Nitrogen Concentration Influence on N-Doped TiO <sub>2</sub> Anatase from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12086-12090.	1.5	220

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37	Cu <sub>2</sub> (OH)PO <sub>4</sub> , a Near-Infrared-Activated Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4810-4813.	7.2	220
38	Two-dimensional III <sub>2</sub> -VI <sub>3</sub> materials: Promising photocatalysts for overall water splitting under infrared light spectrum. <i>Nano Energy</i> , 2018, 51, 533-538.	8.2	213
39	Green synthetic approach for Ti <sup>3+</sup> self-doped TiO <sub>2-x</sub> nanoparticles with efficient visible light photocatalytic activity. <i>Nanoscale</i> , 2013, 5, 1870.	2.8	212
40	First-Principles Characterization of Bi-based Photocatalysts: Bi <sub>12</sub> Ti <sub>20</sub> , Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> , and Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 5658-5663.	1.5	209
41	Highly Photocatalytic ZnO/In <sub>2</sub> O <sub>3</sub> Heteronanostructures Synthesized by a Coprecipitation Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4612-4617.	1.5	203
42	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , 2016, 138, 9316-9324.	6.6	201
43	Hydrothermal preparation and photocatalytic activity of mesoporous Au@TiO <sub>2</sub> nanocomposite microspheres. <i>Journal of Colloid and Interface Science</i> , 2009, 334, 58-64.	5.0	200
44	Two-dimensional germanium monochalcogenides for photocatalytic water splitting with high carrier mobility. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 275-284.	10.8	197
45	Composition Dependence of the Photocatalytic Activities of BiOCl <sub>1-x</sub> Br <sub>x</sub> Solid Solutions under Visible Light. <i>Chemistry - A European Journal</i> , 2011, 17, 9342-9349.	1.7	196
46	Ultra-low loading of Ag <sub>3</sub> PO <sub>4</sub> on hierarchical In <sub>2</sub> S <sub>3</sub> microspheres to improve the photocatalytic performance: The cocatalytic effect of Ag and Ag <sub>3</sub> PO <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , 2017, 202, 84-94.	10.8	196
47	Cu <sub>2</sub> O Nanoparticles with Both {100} and {111} Facets for Enhancing the Selectivity and Activity of CO <sub>2</sub> Electroreduction to Ethylene. <i>Advanced Science</i> , 2020, 7, 1902820.	5.6	196
48	Valley Polarization in Janus Single-Layer MoSSe via Magnetic Doping. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3612-3617.	2.1	194
49	Highly Efficient Visible Light Plasmonic Photocatalyst Ag@Ag(Br,I). <i>Chemistry - A European Journal</i> , 2010, 16, 10042-10047.	1.7	193
50	Facile Template-Free Synthesis of Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Hierarchical Microflowers and Their Associated Photocatalytic Activity. <i>ChemPhysChem</i> , 2010, 11, 2167-2173.	1.0	183
51	Tunable electronic and dielectric behavior of GaS and GaSe monolayers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7098.	1.3	182
52	Theoretical predictions on the electronic structure and charge carrier mobility in 2D Phosphorus sheets. <i>Scientific Reports</i> , 2015, 5, 9961.	1.6	181
53	Hierarchical TiO <sub>2</sub> Microspheres: Synergetic Effect of {001} and {101} Facets for Enhanced Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2011, 17, 15032-15038.	1.7	180
54	Progress on extending the light absorption spectra of photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2758.	1.3	179

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55	Ni <sup>II</sup> Coordination to an Al <sup>III</sup> -Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3036-3040.	7.2	175
56	Preparation, electronic structure, and photocatalytic properties of Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanosheet. <i>Applied Surface Science</i> , 2010, 257, 172-175.	3.1	171
57	Synthesis and characterization of ZnS with controlled amount of S vacancies for photocatalytic H <sub>2</sub> production under visible light. <i>Scientific Reports</i> , 2015, 5, 8544.	1.6	171
58	Density Functional Characterization of the Visible-Light Absorption in Substitutional C-Anion- and C-Cation-Doped TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 2624-2629.	1.5	166
59	Density Functional Characterization of the Band Edges, the Band Gap States, and the Preferred Doping Sites of Halogen-Doped TiO <sub>2</sub> . <i>Chemistry of Materials</i> , 2008, 20, 6528-6534.	3.2	165
60	One-Pot Miniemulsion-Mediated Route to BiOBr Hollow Microspheres with Highly Efficient Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2011, 17, 8039-8043.	1.7	165
61	Single-Layer Ag <sub>2</sub> S: A Two-Dimensional Bidirectional Auxetic Semiconductor. <i>Nano Letters</i> , 2019, 19, 1227-1233.	4.5	165
62	Synthesis of synergetic phosphorus and cyano groups (C N) modified g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production and CO <sub>2</sub> reduction under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 521-530.	10.8	162
63	Highly efficient and noble metal-free NiS modified MnxCd1-xS solid solutions with enhanced photocatalytic activity for hydrogen evolution under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 282-288.	10.8	160
64	Metallic zinc-assisted synthesis of Ti <sup>3+</sup> -self-doped TiO <sub>2</sub> with tunable phase composition and visible-light photocatalytic activity. <i>Chemical Communications</i> , 2013, 49, 868-870.	2.2	159
65	Enhancing the Photocatalytic Hydrogen Evolution Activity of Mixed-Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Achieved by Bandgap Funneling of Charge Carriers. <i>ACS Catalysis</i> , 2018, 8, 10349-10357.	5.5	159
66	Efficient Separation of Photogenerated Electron-Hole Pairs by the Combination of a Heterolayered Structure and Internal Polar Field in Pyroelectric BiOIO <sub>3</sub> Nanoplates. <i>Chemistry - A European Journal</i> , 2013, 19, 14777-14780.	1.7	158
67	Synthesis and photocatalytic properties of BiOCl nanowire arrays. <i>Materials Letters</i> , 2010, 64, 115-118.	1.3	157
68	Doping strategy to promote the charge separation in BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 258-265.	10.8	156
69	Highly Efficient Photocatalyst: TiO <sub>2</sub> Microspheres Produced from TiO <sub>2</sub> Nanosheets with a High Percentage of Reactive {001} Facets. <i>Chemistry - A European Journal</i> , 2009, 15, 12576-12579.	1.7	147
70	In-situ hydroxyl modification of monolayer black phosphorus for stable photocatalytic carbon dioxide conversion. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118760.	10.8	147
71	Controlled synthesis of Ag <sub>2</sub> O microcrystals with facet-dependent photocatalytic activities. <i>Journal of Materials Chemistry</i> , 2012, 22, 21189.	6.7	146
72	A Bismuth-Based Metal-Organic Framework as an Efficient Visible-Light-Driven Photocatalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 2364-2367.	1.7	145

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73	Theoretical Study of N-Doped TiO <sub>2</sub> Rutile Crystals. Journal of Physical Chemistry B, 2006, 110, 24011-24014.	1.2	140
74	Graphene/g-C <sub>3</sub> N <sub>4</sub> bilayer: considerable band gap opening and effective band structure engineering. Physical Chemistry Chemical Physics, 2014, 16, 4230.	1.3	138
75	Holey graphitic carbon nitride (g-CN) supported bifunctional single atom electrocatalysts for highly efficient overall water splitting. Applied Catalysis B: Environmental, 2020, 264, 118521.	10.8	137
76	Density-functional characterization of antiferromagnetism in oxygen-deficient anatase and rutile $\text{TiO}_2$ . Physical Review B, 2010, 81, .	11.1	135
77	Preparation, characterization, and photocatalytic properties of silver carbonate. Applied Surface Science, 2011, 257, 8732-8736.	3.1	134
78	Adsorption of gaseous ethylene via induced polarization on plasmonic photocatalyst Ag/AgCl/TiO <sub>2</sub> and subsequent photodegradation. Applied Catalysis B: Environmental, 2018, 220, 356-361.	10.8	134
79	Stable Si-based pentagonal monolayers: high carrier mobilities and applications in photocatalytic water splitting. Journal of Materials Chemistry A, 2015, 3, 24055-24063.	5.2	132
80	Ag <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> : a Silicate Photocatalyst for the Visible Region. Chemistry of Materials, 2014, 26, 3873-3875.	3.2	130
81	Fabrication of carbon bridged g-C <sub>3</sub> N <sub>4</sub> through supramolecular self-assembly for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 229, 114-120.	10.8	128
82	DFT investigation on two-dimensional GeS/WS <sub>2</sub> van der Waals heterostructure for direct Z-scheme photocatalytic overall water splitting. Applied Surface Science, 2018, 434, 365-374.	3.1	128
83	Living Atomically Dispersed Cu Ultrathin TiO <sub>2</sub> Nanosheet CO <sub>2</sub> Reduction Photocatalyst. Advanced Science, 2019, 6, 1900289.	5.6	128
84	Many-body effects in silicene, silicane, germanene and germanane. Physical Chemistry Chemical Physics, 2013, 15, 8789.	1.3	127
85	Perovskite photocatalyst CsPbBr <sub>3</sub> -xI <sub>x</sub> with a bandgap funnel structure for H <sub>2</sub> evolution under visible light. Applied Catalysis B: Environmental, 2019, 245, 522-527.	10.8	127
86	Visible-light-driven photocatalytic S- and C- codoped meso/nanoporous TiO <sub>2</sub> . Energy and Environmental Science, 2010, 3, 1128.	15.6	126
87	On the possibility of ferromagnetism in carbon-doped anatase TiO <sub>2</sub> . Applied Physics Letters, 2008, 93, 132507.	1.5	125
88	Strain-induced magnetic transitions in half-fluorinated single layers of BN, GaN and graphene. Nanoscale, 2011, 3, 2301.	2.8	124
89	Tailoring AgI nanoparticles for the assembly of AgI/BiOI hierarchical hybrids with size-dependent photocatalytic activities. Journal of Materials Chemistry A, 2013, 1, 7131.	5.2	124
90	Photocatalytic reduction of CO <sub>2</sub> to methanol by three-dimensional hollow structures of Bi <sub>2</sub> WO <sub>6</sub> quantum dots. Applied Catalysis B: Environmental, 2017, 219, 209-215.	10.8	124

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91	First-Principles Study of the Graphene@MoSe <sub>2</sub> Heterobilayers. Journal of Physical Chemistry C, 2011, 115, 20237-20241.	1.5	121
92	Enhancing the Photocatalytic Activity of BiVO <sub>4</sub> for Oxygen Evolution by Ce Doping: Ce <sup>3+</sup> Ions as Hole Traps. Journal of Physical Chemistry C, 2016, 120, 2058-2063.	1.5	121
93	Origin of $\frac{1}{2}$ in II-VI and III-V semiconductors by substitutional doping at anion site. Physical Review B, 2010, 81, .		
94	Three dimensional BiOX (X=Cl, Br and I) hierarchical architectures: facile ionic liquid-assisted solvothermal synthesis and photocatalysis towards organic dye degradation. Materials Letters, 2013, 100, 285-288.	1.3	118
95	Light-Promoted CO <sub>2</sub> Conversion from Epoxides to Cyclic Carbonates at Ambient Conditions over a Bi-Based Metal-Organic Framework. ACS Catalysis, 2021, 11, 1988-1994.	5.5	117
96	The synthesis of the near-spherical AgCl crystal for visible light photocatalytic applications. Dalton Transactions, 2011, 40, 4104.	1.6	115
97	Highly Efficient Visible Light Plasmonic Photocatalysts Ag@Ag(Cl,Br) and Ag@AgCl@AgI. ChemCatChem, 2011, 3, 360-364.	1.8	115
98	Z-scheme reduced graphene oxide/TiO <sub>2</sub> -Bronze/W18O <sub>49</sub> ternary heterostructure towards efficient full solar-spectrum photocatalysis. Carbon, 2018, 139, 415-426.	5.4	115
99	Anion-exchange synthesis of Ag <sub>2</sub> S/Ag <sub>3</sub> PO <sub>4</sub> core/shell composites with enhanced visible and NIR light photocatalytic performance and the photocatalytic mechanisms. Applied Catalysis B: Environmental, 2017, 209, 566-578.	10.8	113
100	Achieving high energy density for lithium-ion battery anodes by Si/C nanostructure design. Journal of Materials Chemistry A, 2019, 7, 2165-2171.	5.2	113
101	Constructing Surface Plasmon Resonance on Bi <sub>2</sub> WO <sub>6</sub> to Boost High-Selective CO <sub>2</sub> Reduction for Methane. ACS Nano, 2021, 15, 3529-3539.	7.3	113
102	Ferromagnetism of undoped GaN mediated by through-bond spin polarization between nitrogen dangling bonds. Applied Physics Letters, 2009, 94, 162505.	1.5	112
103	One-pot solvothermal synthesis of Cu-modified BiOCl via a Cu-containing ionic liquid and its visible-light photocatalytic properties. RSC Advances, 2014, 4, 14281.	1.7	111
104	Phase junction CdS: High efficient and stable photocatalyst for hydrogen generation. Applied Catalysis B: Environmental, 2018, 221, 179-186.	10.8	111
105	High-efficient electrocatalytic overall water splitting over vanadium doped hexagonal Ni <sub>0.2</sub> Mo <sub>0.8</sub> N. Applied Catalysis B: Environmental, 2020, 263, 118330.	10.8	111
106	TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> as an efficient photocatalyst for selective oxidation of benzyl alcohol to benzaldehyde. Applied Catalysis B: Environmental, 2021, 286, 119885.	10.8	111
107	Design and synthesis of porous M-ZnO/CeO <sub>2</sub> microspheres as efficient plasmonic photocatalysts for nonpolar gaseous molecules oxidation: Insight into the role of oxygen vacancy defects and M=Ag, Au nanoparticles. Applied Catalysis B: Environmental, 2020, 260, 118151.	10.8	110
108	Exploring deep effects of atomic vacancies on activating CO <sub>2</sub> photoreduction via rationally designing indium oxide photocatalysts. Chemical Engineering Journal, 2021, 422, 129888.	6.6	110

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109	Strategic Synthesis of Hierarchical TiO <sub>2</sub> Microspheres with Enhanced Photocatalytic Activity. Chemistry - A European Journal, 2010, 16, 11266-11270.	1.7	109
110	Crystal facets controlled synthesis of graphene@TiO <sub>2</sub> nanocomposites by a one-pot hydrothermal process. CrystEngComm, 2012, 14, 1687-1692.	1.3	109
111	2D/2D heterostructure of ultrathin BiVO <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> nanosheets for photocatalytic overall Water splitting. Applied Catalysis B: Environmental, 2021, 285, 119855.	10.8	109
112	Intrinsic anomalous valley Hall effect in single-layer $Nb\text{Te}_3$ . Physical Review B, 2020, 102, 081407.	1.1	108
113	Origin of the photoactivity in boron-doped anatase and rutile TiO <sub>2</sub> . Physical Review B, 2007, 76, 045411.	1.1	107
114	Ti <sup>3+</sup> self-doped TiO <sub>2-x</sub> anatase nanoparticles via oxidation of TiH <sub>2</sub> in H <sub>2</sub> O <sub>2</sub> . Catalysis Today, 2014, 225, 80-89.	2.2	107
115	Band-gap-matched CdSe QD/WS <sub>2</sub> nanosheet composite: Size-controlled photocatalyst for high-efficiency water splitting. Nano Energy, 2017, 31, 84-89.	8.2	107
116	Lead-free Halide Perovskite Cs <sub>3</sub> Bi <sub>2</sub> X <sub>2</sub> Sb <sub>2</sub> X <sub>9</sub> (X=Cl, Br) Possessing the Photocatalytic Activity for Hydrogen Evolution Comparable to that of (CH <sub>3</sub> NH <sub>3</sub> )Pb <sub>3</sub> . Advanced Materials, 2020, 32, e2001344.	11.1	107
117	Co-delivery of erlotinib and doxorubicin by pH-sensitive charge conversion nanocarrier for synergistic therapy. Journal of Controlled Release, 2016, 229, 80-92.	4.8	104
118	Cu <sub>2</sub> O thin films deposited by reactive direct current magnetron sputtering. Thin Solid Films, 2009, 517, 5700-5704.	0.8	102
119	Enhancing visible light photocatalytic degradation performance and bactericidal activity of BiOI via ultrathin-layer structure. Applied Catalysis B: Environmental, 2017, 211, 252-257.	10.8	102
120	Efficient photocatalytic H <sub>2</sub> production via rational design of synergistic spatially-separated dual cocatalysts modified Mn <sub>0.5</sub> Cd <sub>0.5</sub> S photocatalyst under visible light irradiation. Chemical Engineering Journal, 2018, 337, 480-487.	6.6	102
121	Polymorph selection towards photocatalytic gaseous CO <sub>2</sub> hydrogenation. Nature Communications, 2019, 10, 2521.	5.8	102
122	Synthesis of nanometer Bi <sub>2</sub> WO <sub>6</sub> synthesized by sol-gel method and its visible-light photocatalytic activity for degradation of 4BS. Journal of Physics and Chemistry of Solids, 2010, 71, 579-582.	1.9	100
123	Single-layer LaBr <sub>2</sub> : Two-dimensional valleytronic semiconductor with spontaneous spin and valley polarizations. Applied Physics Letters, 2019, 115, .	1.5	100
124	The Role of Effective Mass of Carrier in the Photocatalytic Behavior of Silver Halide-based Ag@AgX (X=Cl, Br, I): A Theoretical Study. ChemPhysChem, 2012, 13, 2304-2309.	1.0	99
125	Effects of single metal atom (Pt, Pd, Rh and Ru) adsorption on the photocatalytic properties of anatase TiO <sub>2</sub> . Applied Surface Science, 2017, 426, 639-646.	3.1	99
126	A theoretical study on the electronic properties of in-plane CdS/ZnSe heterostructures: type-II band alignment for water splitting. Journal of Materials Chemistry A, 2018, 6, 4161-4166.	5.2	99



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127	Effective orientation control of photogenerated carrier separation via rational design of a Ti <sub>3</sub> C <sub>2</sub> (TiO <sub>2</sub> )@CdS/MoS <sub>2</sub> photocatalytic system. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 202-208.	10.8	99
128	Intrinsic Electric Field-Induced Properties in Janus MoSSe van der Waals Structures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 559-565.	2.1	98
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