Jia-Jie Fan

List of Publications by Citations

144 papers	7,405 citations	48 h-index	82 g-index
147 ext. papers	11,393 ext. citations	10 avg, IF	7.44 L-index

#	Paper	IF	Citations
144	S-Scheme Heterojunction Photocatalyst. *CheM*, **2020**, 6, 1543-1559	16.2	719
143	Anatase TiO(2) nanosheets with exposed (001) facets: improved photoelectric conversion efficiency in dye-sensitized solar cells. *Nanoscale*, **2010**, 2, 2144-9	7.7	395
142	Dye-sensitized solar cells based on anatase TiO2 hollow spheres/carbon nanotube composite films. *Journal of Power Sources*, **2011**, 196, 7891-7898	8.9	226
141	Sulfur-doped g-C3N4/TiO2 S-scheme heterojunction photocatalyst for Congo Red photodegradation. *Chinese Journal of Catalysis*, **2021**, 42, 56-68	11.3	219
140	g-C3N4 modified TiO2 nanosheets with enhanced photoelectric conversion efficiency in dye-sensitized solar cells. *Journal of Power Sources*, **2015**, 274, 77-84	8.9	204
139	Unraveling Photoexcited Charge Transfer Pathway and Process of CdS/Graphene Nanoribbon Composites toward Visible-Light Photocatalytic Hydrogen Evolution. *Small*, **2019**, 15, e1902459	11	188
138	2D/2D Ti3C2 MXene/g-C3N4 nanosheets heterojunction for high efficient CO2 reduction photocatalyst: Dual effects of urea. *Applied Catalysis B: Environmental*, **2020**, 268, 118738	21.8	186
137	Enhanced photovoltaic performance of dye-sensitized solar cells based on TiO2 nanosheets/graphene composite films. *Journal of Materials Chemistry*, **2012**, 22, 17027		182
136	An Inorganic/Organic S-Scheme Heterojunction H -Production Photocatalyst and its Charge Transfer Mechanism. *Advanced Materials*, **2021**, 33, e2100317	24	155
135	Step-scheme CdS/TiO2 nanocomposite hollow microsphere with enhanced photocatalytic CO2 reduction activity. *Journal of Materials Science and Technology*, **2020**, 56, 143-150	9.1	124
134	Dye-sensitized solar cells based on hollow anatase TiO2 spheres prepared by self-transformation method. *Electrochimica Acta*, **2010**, 55, 597-602	6.7	122
133	Core-shell Ag@Ni cocatalyst on the TiO2 photocatalyst: One-step photoinduced deposition and its improved H2-evolution activity. *Applied Catalysis B: Environmental*, **2020**, 260, 118190	21.8	121
132	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. *Advanced Materials*, **2021**, 33, e2003521	24	114
131	3D Graphene-Based H2-Production Photocatalyst and Electrocatalyst. *Advanced Energy Materials*, **2020**, 10, 1903802	21.8	109
130	Design and application of active sites in g-C3N4-based photocatalysts. *Journal of Materials Science and Technology*, **2020**, 56, 69-88	9.1	108
129	Adsorption of N719 dye on anatase TiO2 nanoparticles and nanosheets with exposed (001) facets: equilibrium, kinetic, and thermodynamic studies. *Chemistry - an Asian Journal*, **2011**, 6, 2481-90	4.5	106
128	S-scheme heterojunction based on p-type ZnMn2O4 and n-type ZnO with improved photocatalytic CO2 reduction activity. *Chemical Engineering Journal*, **2021**, 409, 127377	14.7	105

127	Near-infrared absorbing 2D/3D ZnIn2S4/N-doped graphene photocatalyst for highly efficient CO2 capture and photocatalytic reduction. *Science China Materials*, **2020**, 63, 552-565	7.1	102
126	TiO2/polydopamine S-scheme heterojunction photocatalyst with enhanced CO2-reduction selectivity. *Applied Catalysis B: Environmental*, **2021**, 289, 120039	21.8	98
125	Novel g-C3N4/g-C3N4 S-scheme isotype heterojunction for improved photocatalytic hydrogen generation. *Applied Surface Science*, **2019**, 495, 143555	6.7	94
124	MXenes as noble-metal-alternative co-catalysts in photocatalysis. *Chinese Journal of Catalysis*, **2021**, 42, 3-14	11.3	93
123	MXene-based photocatalysts. *Journal of Materials Science and Technology*, **2020**, 56, 18-44	9.1	92
122	Single Ni Atoms Anchored on Porous Few-Layer g-C N for Photocatalytic CO Reduction: The Role of Edge Confinement. *Small*, **2020**, 16, e2002411	11	87
121	Dye-sensitized solar cells based on ordered titanate nanotube films fabricated by electrophoretic deposition method. *Electrochemistry Communications*, **2009**, 11, 2052-2055	5.1	87
120	2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. *Materials Today*, **2020**, 41, 270-303	21.8	87
119	One-dimensional Z-scheme TiO 2 /WO 3 /Pt heterostructures for enhanced hydrogen generation. *Applied Surface Science*, **2017**, 391, 211-217	6.7	86
118	Carbon vacancy in C3N4 nanotube: Electronic structure, photocatalysis mechanism and highly enhanced activity. *Applied Catalysis B: Environmental*, **2020**, 262, 118281	21.8	86
117	Porous crystalline g-C3N4: Bifunctional NaHCO3 template-mediated synthesis and improved photocatalytic H2-evolution rate. *Applied Catalysis B: Environmental*, **2020**, 271, 118899	21.8	84
116	Constructing 2D layered MoS2 nanosheets-modified Z-scheme TiO2/WO3 nanofibers ternary nanojunction with enhanced photocatalytic activity. *Applied Surface Science*, **2018**, 430, 466-474	6.7	78
115	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. *RSC Advances*, **2017**, 7, 41504-41511	3.7	78
114	Sulfur-mediated photodeposition synthesis of NiS cocatalyst for boosting H2-evolution performance of g-C3N4 photocatalyst. *Chinese Journal of Catalysis*, **2021**, 42, 37-45	11.3	77
113	Dye-sensitized solar cells based on TiO2 nanoparticles/nanobelts double-layered film with improved photovoltaic performance. *Applied Surface Science*, **2014**, 319, 75-82	6.7	75
112	Crystalline isotype heptazine-/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. *Applied Catalysis B: Environmental*, **2020**, 268, 118381	21.8	66
111	Adsorption of methylene blue and Cd(II) onto maleylated modified hydrochar from water. *Environmental Pollution*, **2019**, 254, 113014	9.3	63
110	Review on nickel-based adsorption materials for Congo red. *Journal of Hazardous Materials*, **2021**, 403, 123559	12.8	63

109	Chemical bath deposited rutile TiO 2 compact layer toward efficient planar heterojunction perovskite solar cells. *Applied Surface Science*, **2017**, 391, 337-344	6.7	62
108	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. *Sensors and Actuators B: Chemical*, **2021**, 331, 129425	8.5	58
107	SPR effect of bismuth enhanced visible photoreactivity of Bi2WO6 for NO abatement. *Chinese Journal of Catalysis*, **2019**, 40, 755-764	11.3	56
106	CdS nanosheets decorated with Ni@graphene core-shell cocatalyst for superior photocatalytic H2 production. *Journal of Materials Science and Technology*, **2020**, 56, 170-178	9.1	55
105	Single Au Atoms Anchored on Amino-Group-Enriched Graphitic Carbon Nitride for Photocatalytic CO Reduction. *ChemSusChem*, **2020**, 13, 1979-1985	8.3	55
104	Enhancing efficiency of planar structure perovskite solar cells using Sn-doped TiO2 as electron transport layer at low temperature. *Electrochimica Acta*, **2018**, 261, 227-235	6.7	55
103	Enhanced performances of dye-sensitized solar cells based on Au-TiO 2 and Ag-TiO 2 plasmonic hybrid nanocomposites. *Applied Surface Science*, **2018**, 430, 415-423	6.7	55
102	Structural engineering of 3D hierarchical Cd0.8Zn0.2S for selective photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2021**, 42, 131-140	11.3	54
101	The effect of calcination temperature on the microstructure and photocatalytic activity of TiO2-based composite nanotubes prepared by an in situ template dissolution method. *Nanoscale*, **2012**, 4, 6597-603	7.7	53
100	Fabrication and photovoltaic performance of hierarchically titanate tubular structures self-assembled by nanotubes and nanosheets. *Chemical Communications*, **2011**, 47, 9161-3	5.8	52
99	Simultaneous realization of sulfur-rich surface and amorphous nanocluster of NiS1+x cocatalyst for efficient photocatalytic H2 evolution. *Applied Catalysis B: Environmental*, **2021**, 280, 119455	21.8	52
98	Highly crystalline carbon nitride hollow spheres with enhanced photocatalytic performance. *Chinese Journal of Catalysis*, **2021**, 42, 627-636	11.3	50
97	ZnxCd1⊠S quantum dot with enhanced photocatalytic H2-production performance. *Chinese Journal of Catalysis*, **2021**, 42, 15-24	11.3	49
96	Amine-functionalized graphitic carbon nitride decorated with small-sized Au nanoparticles for photocatalytic CO reduction. *Journal of Colloid and Interface Science*, **2020**, 570, 11-19	9.3	46
95	Fabrication of TiO2 nanofiber assembly from nanosheets (TiO2-NFs-NSs) by electrospinning-hydrothermal method for improved photoreactivity. *Chinese Journal of Catalysis*, **2020**, 41, 209-218	11.3	46
94	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. *EnergyChem*, **2021**, 3, 100051	36.9	45
93	Recent advances on Bismuth-based Photocatalysts: Strategies and mechanisms. *Chemical Engineering Journal*, **2021**, 419, 129484	14.7	44
92	Effects of fluorine on photocatalysis. *Chinese Journal of Catalysis*, **2020**, 41, 1451-1467	11.3	43

91	Reactive plasma deposition of high quality single phase CuO thin films suitable for metal oxide solar cells. *Journal of Alloys and Compounds*, **2017**, 695, 3116-3123	5.7	41
90	Rugby-like anatase titania hollow nanoparticles with enhanced photocatalytic activity. *CrystEngComm*, **2011**, 13, 7044	3.3	41
89	Nickel-based cocatalysts for photocatalysis: Hydrogen evolution, overall water splitting and CO2 reduction. *Materials Today Physics*, **2020**, 15, 100279	8	41
88	A high-response formaldehyde sensor based on fibrous Ag-ZnO/InO with multi-level heterojunctions. *Journal of Hazardous Materials*, **2021**, 413, 125352	12.8	41
87	Fabrication of predominantly Mn4+ -doped TiO2 nanoparticles under equilibrium conditions and their application as visible-light photocatalyts. *Chemistry - an Asian Journal*, **2014**, 9, 1904-12	4.5	39
86	One-Step Realization of Crystallization and Cyano-Group Generation for g-C3N4 Photocatalysts with Improved H2 Production. *Solar Rrl*, **2021**, 5, 2000372	7.1	39
85	Highly efficient S2□adsorbed MoS -modified TiO2 photocatalysts: A general grafting strategy and boosted interfacial charge transfer. *Journal of Materials Science and Technology*, **2020**, 56, 122-132	9.1	38
84	Single atomic Au induced dramatic promotion of the photocatalytic activity of TiO hollow microspheres. *Chemical Communications*, **2020**, 56, 1745-1748	5.8	38
83	Construction of an Ultrathin S-Scheme Heterojunction Based on Few-Layer g-C3N4 and Monolayer Ti3C2Tx MXene for Photocatalytic CO2 Reduction. *Solar Rrl*, **2021**, 5, 2000351	7.1	38
82	Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. *Small*, **2021**, 17, e2005231	11	37
81	Graphdiyne: A Brilliant Hole Accumulator for Stable and Efficient Planar Perovskite Solar Cells. *Small*, **2020**, 16, e1907290	11	35
80	Fabrication and photovoltaic performance of niobium doped TiO2 hierarchical microspheres with exposed {001} facets and high specific surface area. *Applied Surface Science*, **2017**, 410, 241-248	6.7	34
79	Drastic promotion of the photoreactivity of MOF ultrathin nanosheets towards hydrogen production by deposition with CdS nanorods. *Applied Catalysis B: Environmental*, **2021**, 285, 119801	21.8	34
78	Triethanolamine-mediated photodeposition formation of amorphous Ni-P alloy for improved H2-evolution activity of g-C3N4. *Science China Materials*, **2020**, 63, 2215-2227	7.1	33
77	Homojunction CdS Photocatalysts with a Massive S2□Adsorbed Surface Phase: One-Step Facile Synthesis and High H2-Evolution Performance. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 543-551	8.3	33
76	Dual-Single-Atom Tailoring with Bifunctional Integration for High-Performance CO Photoreduction. *Advanced Materials*, **2021**, e2105135	24	31
75	State-of-the-art recent progress in MXene-based photocatalysts: a comprehensive review. *Nanoscale*, **2021**, 13, 9463-9504	7.7	31
74	Near-Infrared-Responsive Photocatalysts.. *Small Methods*, **2021**, 5, e2001042	12.8	30

73	Novel amorphous NiCuS H2-evolution cocatalyst: Optimizing surface hydrogen desorption for efficient photocatalytic activity. *Chemical Engineering Journal*, **2021**, 419, 129652	14.7	30
72	One-step vapor-phase assisted hydrothermal synthesis of functionalized carbons: Effects of surface groups on their physicochemical properties and adsorption performance for Cr(VI). *Applied Surface Science*, **2020**, 528, 146984	6.7	29
71	Carbon-coated cubic-phase molybdenum carbide nanoparticle for enhanced photocatalytic H2-evolution performance of TiO2. *Journal of Energy Chemistry*, **2020**, 51, 253-261	12	29
70	Selenium-enriched amorphous NiSe1+ nanoclusters as a highly efficient cocatalyst for photocatalytic H2 evolution. *Chemical Engineering Journal*, **2021**, 408, 127230	14.7	28
69	Colloidal CdS and CdZnS nanocrystal photocatalysts with massive S-adsorption: one-step facile synthesis and highly efficient H-evolution performance. *Chemical Communications*, **2020**, 56, 9316-9319	5.8	27
68	Enhanced photocatalytic H2 production performance of CdS hollow spheres using C and Pt as bi-cocatalysts. *Chinese Journal of Catalysis*, **2021**, 42, 743-752	11.3	27
67	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	6.7	26
66	Targeted regulation of exciton dissociation in graphitic carbon nitride by vacancy modification for efficient photocatalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2021**, 292, 120179	21.8	26
65	Nano-porous hollow Li0.5La0.5TiO3 spheres and electronic structure modulation for ultra-fast H2S detection. *Journal of Materials Chemistry A*, **2020**, 8, 2376-2386	13	25
64	Triethanolamine-assisted photodeposition of non-crystalline CuxP nanodots for boosting photocatalytic H2 evolution of TiO2. *Journal of Materials Chemistry C*, **2020**, 8, 15816-15822	7.1	24
63	Fe /TiO Hollow Microspheres: Fe and Ti Dual Active Sites Boosting the Photocatalytic Oxidation of NO. *Small*, **2020**, 16, e2004583	11	24
62	Photosensitization of Bi2O2CO3 nanoplates with amorphous Bi2S3 to improve the visible photoreactivity towards NO oxidation. *Applied Surface Science*, **2019**, 495, 143561	6.7	23
61	Metal phosphide modified CdxZn1⊠S solid solutions as a highly active visible-light photocatalyst for hydrogen evolution. *Applied Catalysis A: General*, **2020**, 590, 117336	5.1	23
60	In Situ Synthesis of Mo2C Nanoparticles on Graphene Nanosheets for Enhanced Photocatalytic H2-Production Activity of TiO2. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3828-3837	8.3	23
59	Hetero-phase MoC-Mo2C nanoparticles for enhanced photocatalytic H2-production activity of TiO2. *Nano Research*, **2021**, 14, 1095-1102	10	22
58	Three in one: atomically dispersed Na boosting the photoreactivity of carbon nitride towards NO oxidation. *Chemical Communications*, **2020**, 56, 14195-14198	5.8	21
57	Steering the behavior of photogenerated carriers in semiconductor photocatalysts: a new insight and perspective. *Journal of Materials Chemistry A*,	13	21
56	Construction of efficient active sites through cyano-modified graphitic carbon nitride for photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2021**, 42, 1608-1616	11.3	21

55	Room-temperature formaldehyde catalytic decomposition. *Environmental Science: Nano*, **2020**, 7, 3655-3709	7.1	20
54	Graphene-Based Materials in Planar Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000502	7.1	20
53	Simultaneous realization of direct photodeposition and high H2-production activity of amorphous cobalt sulfide nanodot-modified rGO/TiO2 photocatalyst. *Rare Metals*, **2021**, 40, 3125	5.5	20
52	Synergism of tellurium-rich structure and amorphization of NiTe1+ nanodots for efficient photocatalytic H2-evolution of TiO2. *Applied Catalysis B: Environmental*, **2021**, 290, 120057	21.8	20
51	Sharply increasing the visible photoreactivity of g-C3N4 by breaking the intralayered hydrogen bonds. *Applied Surface Science*, **2020**, 505, 144654	6.7	19
50	g-C3N4-Based 2D/2D Composite Heterojunction Photocatalyst. *Small Structures*,2100086	8.7	19
49	Electrospun TiO2-Based Photocatalysts. *Solar Rrl*, **2021**, 5, 2000571	7.1	18
48	Strong temperature-dependent crystallization, phase transition, optical and electrical characteristics of p-type CuAlO2 thin films. *Physical Chemistry Chemical Physics*, **2015**, 17, 557-62	3.6	17
47	SPR effect of Au nanoparticles on the visible photocatalytic RhB degradation and NO oxidation over TiO2 hollow nanoboxes. *Arabian Journal of Chemistry*, **2020**, 13, 4404-4416	5.9	17
46	Highly dispersed MoSx nanodot-modified TiO2 photocatalysts: vitamin C-mediated synthesis and improved H2 evolution activity. *Journal of Materials Chemistry C*, **2021**, 9, 3239-3246	7.1	15
45	Recent advances in crystalline carbon nitride for photocatalysis. *Journal of Materials Science and Technology*, **2021**, 91, 224-240	9.1	15
44	Boosting antiphotocorrosion and hydrogen-production activity of cadmium sulfide by cobalt lactate complex. *Applied Surface Science*, **2020**, 512, 144786	6.7	14
43	Ultra-small molybdenum sulfide nanodot-coupled graphitic carbon nitride nanosheets: Trifunctional ammonium tetrathiomolybdate-assisted synthesis and high photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2021**, 586, 719-729	9.3	14
42	Recent Advances in Opal/Inverted Opal Photonic Crystal Photocatalysts. *Solar Rrl*, **2021**, 5, 2000541	7.1	14
41	Mild hydrothermal preparation of millimeter-sized carbon beads from chitosan with significantly improved adsorption stability for Cr(VI). *Chemical Engineering Research and Design*, **2020**, 156, 43-53	5.5	12
40	In situ coupling of Ti2O with rutile TiO2 as a core□shell structure and its photocatalysis performance. *RSC Advances*, **2017**, 7, 54662-54667	3.7	12
39	2D/2D BiVO4/CsPbBr3 S-scheme heterojunction for photocatalytic CO2 reduction: Insights into structure regulation and Fermi level modulation. *Applied Catalysis B: Environmental*, **2022**, 304, 120979	21.8	12
38	Photocatalytic oxidation of NO on reduction type semiconductor photocatalysts: effect of metallic Bi on CdS nanorods. *Chemical Communications*, **2021**, 57, 10067-10070	5.8	12

37	Controllable Synthesis of g-C3N4 Inverse Opal Photocatalysts for Superior Hydrogen Evolution. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2009080-0	3.8	11
36	Covalently functionalized graphene by thiourea for enhancing H2-evolution performance of TiO2 photocatalyst. *Ceramics International*, **2021**, 47, 654-661	5.1	11
35	0D/2D CdS/ZnO composite with n-n heterojunction for efficient detection of triethylamine. *Journal of Colloid and Interface Science*, **2021**, 600, 898-909	9.3	11
34	A facile sol□gel synthesis of chitosan□boehmite film with excellent acid resistance and adsorption performance for Pb(II). *Chemical Engineering Research and Design*, **2020**, 161, 332-339	5.5	10
33	Few-Layered Mo x W1□ S2-Modified CdS Photocatalyst: One-Step Synthesis with Bifunctional Precursors and Improved H2-Evolution Activity. *Solar Rrl*, **2021**, 5, 2100387	7.1	10
32	Fabricating covalent organic framework/CdS S-scheme heterojunctions for improved solar hydrogen generation. *Chinese Journal of Catalysis*, **2022**, 43, 350-358	11.3	9
31	One-pot hydrothermal preparation of manganese-doped carbon microspheres for effective deep removal of hexavalent chromium from wastewater. *Journal of Colloid and Interface Science*, **2021**, 599, 427-435	9.3	9
30	Construction 0D/2D heterojunction by highly dispersed AgS quantum dots (QDs) loaded on the g-CN nanosheets for photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2022**, 607, 662-675	9.3	9
29	Photocatalytic degradation of sulfadiazine in suspensions of TiO2 nanosheets with exposed (001) facets. *Chinese Chemical Letters*, **2021**, 32, 3215-3215	8.1	8
28	Selenium-Rich Configuration and Amorphization for Synergistically Maximizing the Active-Center Amount of CoSe1+x Nanodots toward Efficient Photocatalytic H2 Evolution. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8653-8662	8.3	8
27	N,N-dimethylformamide assisted facile hydrothermal synthesis of boehmite microspheres for highly effective removal of Congo red from water. *Journal of Colloid and Interface Science*, **2021**, 583, 128-138	9.3	8
26	Light-Induced Ion Rectification in Zigzag Nanochannels. *Chemistry - an Asian Journal*, **2015**, 10, 2733-7	4.5	7
25	Photoinduced self-stability mechanism of CdS photocatalyst: The dependence of photocorrosion and H2-evolution performance. *Journal of Materials Science and Technology*, **2022**, 121, 19-27	9.1	7
24	Crystalline Intramolecular Ternary Carbon Nitride Homojunction for Photocatalytic Hydrogen Evolution. *ACS Catalysis*,6345-6358	13.1	7
23	Numerical investigation of copper oxide-based heterojunction solar cells. *Journal Physics D: Applied Physics*, **2019**, 52, 275105	3	6
22	Amino group-rich porous g-C3N4 nanosheet photocatalyst: Facile oxalic acid-induced synthesis and improved H2-evolution activity. *Ceramics International*, **2021**, 47, 18295-18303	5.1	6
21	Site-Specific Electron-Driving Observations of CO -to-CH Photoreduction on Co-doped CeO /Crystalline Carbon Nitride S-scheme Heterojunctions.. *Advanced Materials*, **2022**, e2200929	24	6
20	Copper and platinum dual-single-atoms supported on crystalline graphitic carbon nitride for enhanced photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2022**, 43, 451-460	11.3	5

19	Simultaneously Optimizing the Number and Efficiency of Active Se Sites in Se-Rich a -MoSe x Nanodot Cocatalysts for Efficient Photocatalytic H 2 Evolution. *Solar Rrl*,2100832	7.1	5
18	Photoinduced synthesis of ultrasmall amorphous NiWSx nanodots for boosting photocatalytic H2-evolution activity of TiO2. *Journal of Physics and Chemistry of Solids*, **2021**, 149, 109796	3.9	5
17	Research progress in metal sulfides for photocatalysis: From activity to stability. *Chemosphere*, **2022**, 135085	8.4	5
16	Enhanced Photoelectrochemical Performances in Flexible Mesoscopic Solar Cells: An Effective Light-Scattering Material. *ChemPhotoChem*, **2018**, 2, 986-993	3.3	4
15	Internal Electric Field on Steering Charge Migration: Modulations, Determinations and Energy-Related Applications. *Advanced Functional Materials*,2110258	15.6	4
14	Plasmonic semiconductor photocatalyst: Non-stoichiometric tungsten oxide. *Environmental Research*, **2021**, 199, 111259	7.9	4
13	Palladium-copper nanodot as novel H2-evolution cocatalyst: Optimizing interfacial hydrogen desorption for highly efficient photocatalytic activity. *Chinese Journal of Catalysis*, **2022**, 43, 215-225	11.3	3
12	Insulator in photocatalysis: Essential roles and activation strategies. *Chemical Engineering Journal*, **2021**, 426, 130772	14.7	3
11	Construction of highly active WO3/TpPa-1-COF S-scheme heterojunction toward photocatalytic H2 generation. *Journal of Materials Science and Technology*, **2022**, 123, 41-48	9.1	3
10	In situ oxidation of ultrathin Ti3C2Tx MXene modified with crystalline g-C3N4 nanosheets for photocatalytic H2 evolution. *International Journal of Hydrogen Energy*, **2021**, 47, 4546-4546	6.7	2
9	Cyano group-enriched crystalline graphitic carbon nitride photocatalyst: Ethyl acetate-induced improved ordered structure and efficient hydrogen-evolution activity. *Journal of Colloid and Interface Science*, **2021**, 608, 1268-1277	9.3	2
8	Trace-Level Fluorination of Mesoporous TiO Improves Photocatalytic and Pb(II) Adsorbent Performances. *Inorganic Chemistry*, **2020**, 59, 17631-17637	5.1	2
7	Confined Synthesis: From Layered Titanate to Highly Efficient and Durable Mesoporous Cu/TiO2 Hydrogen Evolution Photocatalysts. *ACS Applied Energy Materials*, **2021**, 4, 4050-4058	6.1	2
6	Novel core-shell Ag@AgSe nanoparticle co-catalyst: In situ surface selenization for efficient photocatalytic H2 production of TiO2. *Chinese Journal of Catalysis*, **2022**, 43, 1074-1083	11.3	2
5	Semiconductor Gas Sensor for Triethylamine Detection. *Small*, **2021**, e2104984	11	2
4	Preparation and Photoelectric Properties of ZnO/TiO2 Nanotubes Film Electrodes. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2012**, 27, 585-590	1	1
3	Cu clusters immobilized on Cd-defective cadmium sulfide nano-rods towards photocatalytic CO2 reduction. *Journal of Materials Science and Technology*, **2022**, 118, 54-63	9.1	1
2	Oxygen vacancies-induced photoreactivity enhancement of TiO2 mesocrystals towards acetone oxidation. *Applied Surface Science*, **2022**, 594, 153519	6.7	1

1	An effect of rapid post-annealing temperature on the properties of cupric oxide thin films deposited by a remote plasma sputtering technique. *Materials Science in Semiconductor Processing*, **2022**, 137, 106227	4.3	0