

# Synthesis of Particulate Hierarchical Tandem Heterojunction Photocatalytic Hydrogen Production

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ultrasmall MoO <sub>x</sub> Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1804883.	11.1	222
2	Characteristics and photocatalytic behavior of Fe and Cu doped TiO <sub>2</sub> prepared by combined sol-gel and mechanical alloying. <i>Solid State Sciences</i> , 2019, 96, 105975.	1.5	64
3	NiFePd/LiO-66 nanocomposites as highly efficient catalysts to accelerate hydrogen evolution from hydrous hydrazine. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2727-2735.	3.0	21
4	A bismuth rich hollow Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> photocatalyst enables dramatic CO <sub>2</sub> reduction activity. <i>Nano Energy</i> , 2019, 64, 103955.	8.2	156
5	Direct Observation of Oxygen Vacancy Self-Healing on TiO <sub>2</sub> Photocatalysts for Solar Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 14367-14371.	1.6	24
6	Bifunctional Hydrogen Production and Storage on OD-1D Heterojunction of Cd <sub>0.5</sub> Zn <sub>0.5</sub> S@Halloysites. <i>Advanced Functional Materials</i> , 2019, 29, 1903825.	7.8	50
7	Molybdenum disulfide coated nickel-cobalt sulfide with nickel phosphide loading to build hollow core-shell structure for highly efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 689-701.	5.0	40
8	Surface-defect-rich mesoporous NH <sub>2</sub> -MIL-125 (Ti)@Bi <sub>2</sub> MoO <sub>6</sub> core-shell heterojunction with improved charge separation and enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 324-334.	5.0	44
9	Direct Observation of Oxygen Vacancy Self-Healing on TiO <sub>2</sub> Photocatalysts for Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14229-14233.	7.2	138
10	Enhanced photoelectrocatalytic performance of TiO <sub>2</sub> nanorod array under visible light irradiation: Synergistic effect of doping, heterojunction construction and cocatalyst deposition. <i>Inorganic Chemistry Communication</i> , 2019, 108, 107521.	1.8	9
11	The 2D nickel-molybdenum bimetal sulfide synergistic modified hollow cubic CdS towards enhanced photocatalytic water splitting hydrogen production. <i>Applied Surface Science</i> , 2019, 497, 143769.	3.1	25
12	Assessment of tailor-made mesoporous metal doped TiO <sub>2</sub> monolithic framework as fast responsive visible light photocatalysts for environmental remediation applications. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107593.	1.8	8
13	In Situ Grown Monolayer N-Doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO <sub>2</sub> Reduction. <i>Advanced Materials</i> , 2019, 31, e1902868.	11.1	515
14	Nanostructured heterogeneous photo-catalysts for hydrogen production and water splitting: A comprehensive insight. <i>Applied Materials Today</i> , 2019, 17, 159-182.	2.3	41
15	Spherical Mesoporous Materials from Single to Multilevel Architectures. <i>Accounts of Chemical Research</i> , 2019, 52, 2928-2938.	7.6	142
16	Highly dispersed Pd nanoparticles hybridizing with 3D hollow-sphere g-C <sub>3</sub> N <sub>4</sub> to construct OD/3D composites for efficient photocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2019, 378, 331-340.	3.1	55
17	Mesoporous g-C <sub>3</sub> N <sub>4</sub> /Zn-Ti LDH laminated van der Waals heterojunction nanosheets as remarkable visible-light-driven photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16348-16358.	3.8	49
18	Urchin-like hierarchical CoZnAl-LDH/RGO/g-C <sub>3</sub> N <sub>4</sub> hybrid as a Z-scheme photocatalyst for efficient and selective CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117771.	10.8	212

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19	High-efficiency Fe-Mediated Bi <sub>2</sub> MoO <sub>6</sub> nitrogen-fixing photocatalyst: Reduced surface work function and ameliorated surface reaction. Applied Catalysis B: Environmental, 2019, 256, 117781.	10.8	161
20	Large-area MoS <sub>2</sub> -MoO <sub>x</sub> heterojunction thin-film photodetectors with wide spectral range and enhanced photoresponse. APL Materials, 2019, 7, .	2.2	24
21	Synthesis, structures and applications of single component core-shell structured TiO <sub>2</sub> : A review. Chemical Engineering Journal, 2019, 375, 122029.	6.6	64
22	Phase role of white TiO <sub>2</sub> precursor in its reduction to black TiO <sub>2</sub> . Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2978-2982.	0.9	14
23	In-situ Photosynthetic Route to Tailor Point Defects in TiO <sub>2</sub> (B) Nanosheets for Visible Light-Driven Photocatalytic Hydrogen Production. ChemCatChem, 2019, 11, 4252-4255.	1.8	9
24	Distorted 1T-ReS <sub>2</sub> Nanosheets Anchored on Porous TiO <sub>2</sub> Nanofibers for Highly Enhanced Photocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2019, 11, 23144-23151.	4.0	57
25	Dismutation of Titanium Suboxide into TiO and TiO <sub>2</sub> with Structural Hierarchy Assisted by Ammonium Halides. Chemistry - A European Journal, 2019, 25, 10642-10649.	1.7	4
26	A CoP/CdS/WS <sub>2</sub> tandem heterostructure: a novel photocatalyst for hydrogen evolution without using sacrificial agents. Journal of Materials Chemistry A, 2019, 7, 14638-14645.	5.2	49
27	Nitrogen-doped black TiO <sub>2</sub> spheres with enhanced visible light photocatalytic performance. SN Applied Sciences, 2019, 1, 1.	1.5	12
28	Oxygen deficiency introduced to Z-scheme CdS/WO <sub>3</sub> nanomaterials with MoS <sub>2</sub> as the cocatalyst towards enhancing visible-light-driven hydrogen evolution. Nanoscale, 2019, 11, 10884-10895.	2.8	45
29	Homojunction and defect synergy-mediated electron-hole separation for solar-driven mesoporous rutile/anatase TiO <sub>2</sub> microsphere photocatalysts. RSC Advances, 2019, 9, 7870-7877.	1.7	18
30	Construction of ZnxCd1-xS/Bi <sub>2</sub> S <sub>3</sub> composite nanospheres with photothermal effect for enhanced photocatalytic activities. Journal of Colloid and Interface Science, 2019, 546, 303-311.	5.0	56
31	Sonochemical deposition of ultrafine metallic Pt nanoparticles on CdS for efficient photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2019, 3, 1048-1054.	2.5	33
32	A visualizable means for verifying the manner of charge transfer in WO <sub>3</sub> -based type-II heterostructures. Nanoscale, 2019, 11, 7825-7832.	2.8	14
33	A two-dimensional metal-organic framework accelerating visible-light-driven H <sub>2</sub> production. Nanoscale, 2019, 11, 8304-8309.	2.8	26
34	Facile Synthesis of Ce-Doped SnO <sub>2</sub> Nanoparticles: A Promising Photocatalyst for Hydrogen Evolution and Dyes Degradation. ChemistrySelect, 2019, 4, 3722-3729.	0.7	28
35	Highly Active Photocatalyst of Cu <sub>2</sub> O/TiO <sub>2</sub> Octahedron for Hydrogen Generation. ACS Omega, 2019, 4, 3392-3397.	1.6	65
36	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. Journal of Materials Chemistry A, 2019, 7, 22514-22529.	5.2	23

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37	Facile and Large-scale Synthesis of Defective Black TiO <sub>2</sub> -x(B) Nanosheets for Efficient Visible-light-driven Photocatalytic Hydrogen Evolution. <i>Catalysts</i> , 2019, 9, 1048.	1.6	19
38	Thermal decomposition of bimetallic titanium complexes: A new method for synthesizing doped titanium nano-sized catalysts and photocatalytic application. <i>Materials Science and Engineering C</i> , 2019, 97, 813-826.	3.8	12
39	Recent advances in Ti <sup>3+</sup> self-doped nanostructured TiO <sub>2</sub> visible light photocatalysts for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 382, 123011.	6.6	122
40	Critical role of oxygen vacancies in heterogeneous Fenton oxidation over ceria-based catalysts. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 163-172.	5.0	73
41	Dual plasmons-promoted electron-hole separation for direct Z-scheme Bi <sub>3</sub> O <sub>4</sub> Cl/AgCl heterojunction ultrathin nanosheets and enhanced photocatalytic-photothermal performance. <i>Journal of Hazardous Materials</i> , 2020, 384, 121268.	6.5	34
42	Synergistic effect in the reduction of Cr(VI) with Ag-MoS <sub>2</sub> as photocatalyst. <i>Applied Materials Today</i> , 2020, 18, 100453.	2.3	17
43	Construction of CdS@Ti <sub>3</sub> C <sub>2</sub> @CoO hierarchical tandem p-n heterojunction for boosting photocatalytic hydrogen production in pure water. <i>Chemical Engineering Journal</i> , 2020, 383, 123130.	6.6	67
44	Plasmonic MoO <sub>2</sub> as co-catalyst of MoS <sub>2</sub> for enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2020, 504, 144291.	3.1	43
45	Lattice Distortion in Hollow Multi-shelled Structures for Efficient Visible-light CO <sub>2</sub> Reduction with a SnS <sub>2</sub> /SnO <sub>2</sub> Junction. <i>Angewandte Chemie</i> , 2020, 132, 731-734.	1.6	41
46	Lattice Distortion in Hollow Multi-shelled Structures for Efficient Visible-light CO <sub>2</sub> Reduction with a SnS <sub>2</sub> /SnO <sub>2</sub> Junction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 721-724.	7.2	128
47	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. <i>Chemical Reviews</i> , 2020, 120, 919-985.	23.0	1,605
48	Defect-rich and electron-rich mesoporous Ti-MOFs based NH <sub>2</sub> -MIL-125(Ti)@ZnIn <sub>2</sub> S <sub>4</sub> /CdS hierarchical tandem heterojunctions with improved charge separation and enhanced solar-driven photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118202.	10.8	143
49	Constructing mesoporous phosphated titanium oxide for efficient Cr(III) removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121278.	6.5	19
50	Black TiO <sub>2</sub> : A review of its properties and conflicting trends. <i>Chemical Engineering Journal</i> , 2020, 389, 123918.	6.6	183
51	Decorating g-C <sub>3</sub> N <sub>4</sub> with alkalized Ti <sub>3</sub> C <sub>2</sub> MXene for promoted photocatalytic CO <sub>2</sub> reduction performance. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 406-417.	5.0	208
52	Design of twin junction with solid solution interface for efficient photocatalytic H <sub>2</sub> production. <i>Nano Energy</i> , 2020, 69, 104410.	8.2	62
53	In-situ synthesis of monodispersed Cu <sub>2</sub> O heterostructure on porous carbon monolith for exceptional removal of gaseous Hg <sup>0</sup> . <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118556.	10.8	32
54	Construction of stable perovskite-type LaFeO <sub>3</sub> particles on polymeric resin with boosted photocatalytic Fenton-like decaffeination under solar irradiation. <i>Separation and Purification Technology</i> , 2020, 237, 116384.	3.9	28

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55	Facile synthesis, structural, optical and photocatalytic properties of mesoporous Ag <sub>2</sub> O/TiO <sub>2</sub> nanoheterojunctions. Journal of Physics and Chemistry of Solids, 2020, 138, 109305.	1.9	10
56	Sequential Chemistry Toward Core-Shell Structured Metal Sulfides as Stable and Highly Efficient Visible-Light Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 3287-3293.	7.2	80
57	Sequential Chemistry Toward Core-Shell Structured Metal Sulfides as Stable and Highly Efficient Visible-Light Photocatalysts. Angewandte Chemie, 2020, 132, 3313-3319.	1.6	16
58	Surface domain heterojunction on rutile TiO <sub>2</sub> for highly efficient photocatalytic hydrogen evolution. Nanoscale Horizons, 2020, 5, 1596-1602.	4.1	15
59	A review and recent advances in solar-to-hydrogen energy conversion based on photocatalytic water splitting over doped-TiO <sub>2</sub> nanoparticles. Solar Energy, 2020, 211, 522-546.	2.9	185
60	Immobilization laccase on heterophase TiO <sub>2</sub> microsphere as a photo-enzyme integrated catalyst for emerging contaminants degradation under visible light. Applied Materials Today, 2020, 21, 100810.	2.3	16
61	Well-designed efficient charge separation in 2D/2D N doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /ZnIn <sub>2</sub> S <sub>4</sub> heterojunction through band structure/morphology regulation synergistic effect. Nano Energy, 2020, 78, 105401.	8.2	81
62	Preparation and Electrochemical Properties of Mesoporous NiFe <sub>2</sub> O <sub>4</sub> /N-Doped Carbon Nanocomposite as an Anode for Lithium Ion Battery. Frontiers in Materials, 2020, 7, .	1.2	4
63	Morphology-dependent highly active microcrystalline stannous oxalate photocatalysts with selectively exposed facets and low specific surface areas. Applied Surface Science, 2020, 525, 146347.	3.1	7
64	Black TiO <sub>2</sub> -graphitic carbon nanocomposite from a single source precursor and its interaction with colored and colorless contaminants under visible radiation. Materials Research Bulletin, 2020, 132, 110983.	2.7	4
65	Visible light active and noble metal free Nb <sub>4</sub> N <sub>5</sub> /TiO <sub>2</sub> nanobelt surface heterostructure for plasmonic enhanced solar water splitting. Chemical Engineering Journal, 2020, 402, 126226.	6.6	27
66	Facile Synthesis of N-Doped SnO <sub>2</sub> Nanoparticles: A Cocatalyst-Free Promising Photocatalyst for Hydrogen Generation. ChemistrySelect, 2020, 5, 7775-7782.	0.7	13
67	Construction of In <sub>2</sub> S <sub>3</sub> @NH <sub>2</sub> -MIL-68(In)@In <sub>2</sub> S <sub>3</sub> Sandwich Homologous Heterojunction for Efficient CO <sub>2</sub> Photoreduction. Industrial & Engineering Chemistry Research, 2020, 59, 20711-20718.	1.8	29
68	Flower-like hydrogen titanate nanosheets: preparation, characterization and their photocatalytic hydrogen production performance in the presence of Pt cocatalyst. RSC Advances, 2020, 10, 27652-27661.	1.7	8
69	Facile synthesis of mesoporous black N-TiO <sub>2</sub> photocatalyst for efficient charge separation and the visible-driven photocatalytic mechanism of ibuprofen degradation. Materials Science in Semiconductor Processing, 2020, 120, 105258.	1.9	30
70	Hydrogen production upon UV-light irradiation of Cu/TiO <sub>2</sub> photocatalyst in the presence of alkanol-amines. International Journal of Hydrogen Energy, 2020, 45, 26701-26715.	3.8	16
71	Dual channel carrier transfer based on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> improves carrier utilization of Z-scheme Ag <sub>3</sub> PO <sub>4</sub> /AgBr heterojunction photocatalyst. Separation and Purification Technology, 2020, 253, 117486.	3.9	20
72	Novel molybdenum disulfide heterostructure nano hybrids with enhanced visible-light-induced photocatalytic activity towards organic dyes. Journal of Alloys and Compounds, 2020, 848, 156448.	2.8	36

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73	Two-dimensional MoS <sub>2</sub> nanosheet-modified oxygen defect-rich TiO <sub>2</sub> nanoparticles for light emission and photocatalytic applications. <i>New Journal of Chemistry</i> , 2020, 44, 14936-14946.	1.4	32
74	Mesoporous black TiO <sub>2</sub> phase junction@Ni nanosheets: A highly integrated photocatalyst system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 284-290.	2.7	8
75	Enhanced photoelectrochemical performance in BiFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction photocathodes with ferroelectric polarization. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	13
76	Rational design and fabrication of TiO <sub>2</sub> nano heterostructure with multi-junctions for efficient photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28640-28650.	3.8	21
77	Role of Vacancies in Photocatalysis: A Review of Recent Progress. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3599-3619.	1.7	67
78	Hollow Octahedral Cu <sub>2</sub> S/CdS/Bi <sub>2</sub> S <sub>3</sub> p-n Type Tandem Heterojunctions for Efficient Photothermal Effect and Robust Visible-Light-Driven Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40328-40338.	4.0	77
79	Crystalline Ni-Doped Sn <sub>3</sub> O <sub>4</sub> Nanosheets for Photocatalytic H <sub>2</sub> Production. <i>ACS Applied Nano Materials</i> , 2020, 3, 9268-9275.	2.4	22
80	Orderly Curled Silica Nanosheets with a Small Size and Macromolecular Loading Pores: Synthesis and Delivery of Macromolecules To Eradicate Drug-Resistant Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57810-57820.	4.0	14
81	Hierarchically structured semiconductor@noble-metal@MOF for high-performance selective photocatalytic CO <sub>2</sub> reduction. <i>Green Chemical Engineering</i> , 2020, 1, 48-55.	3.3	17
82	Band engineering of mesoporous TiO <sub>2</sub> with tunable defects for visible-light hydrogen generation. <i>CrystEngComm</i> , 2020, 22, 4030-4038.	1.3	6
83	Template-directed synthesis of mesoporous TiO <sub>2</sub> materials for energy conversion and storage. <i>Emergent Materials</i> , 2020, 3, 315-329.	3.2	9
84	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Z-Scheme System for Efficient CO <sub>2</sub> Reduction into Solar Fuels. <i>ACS Applied Energy Materials</i> , 2020, 3, 6561-6572.	2.5	67
85	Ternary TiO <sub>2</sub> /MoSe <sub>2</sub> /graphyne heterojunctions with enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8796-8804.	1.1	9
86	A heterostructure BiOCl nanosheets/TiO <sub>2</sub> hollow-tubes composite for visible light-driven efficient photodegradation antibiotic. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112590.	2.0	41
87	Influence of Cu modified surface states by sol gel Technique on Photocatalytic Activity of Titanium dioxide. <i>Materials Chemistry and Physics</i> , 2020, 249, 123169.	2.0	7
88	High performing photocatalytic ZnO hollow sub-micro-spheres fabricated by microwave induced self-assembly approach. <i>Ceramics International</i> , 2020, 46, 19815-19821.	2.3	18
89	Photocatalytic treatment of landfill leachate using cascade photoreactor with immobilized W-C-codoped TiO <sub>2</sub> nanoparticles. <i>Journal of Water Process Engineering</i> , 2020, 36, 101307.	2.6	27
90	BiVO <sub>4</sub> @ZnIn <sub>2</sub> S <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene quantum dots assembly all-solid-state direct Z-Scheme photocatalysts for efficient visible-light-driven overall water splitting. <i>Applied Materials Today</i> , 2020, 20, 100719.	2.3	61

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91	Photocatalytic hydrogen evolution via solar-driven Water splitting by CuSbS <sub>2</sub> with different shapes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112706.	2.0	10
92	Metal-organic framework-derived CdS@NiO heterostructures with modulated morphology and enhanced photocatalytic hydrogen evolution activity in pure water. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10071-10077.	2.7	43
93	Measurement of heavy metals in industrial wastewater by filters based on perlon and wool. <i>Journal of Water Process Engineering</i> , 2020, 37, 101354.	2.6	4
94	Clean Water from Air Utilizing Black TiO <sub>2</sub> -Based Photothermal Nanocomposite Sheets. <i>ACS Applied Nano Materials</i> , 2020, 3, 6827-6835.	2.4	21
95	Oxygen-defective ZnO porous nanosheets modified by carbon dots to improve their visible-light photocatalytic activity and gain mechanistic insight. <i>New Journal of Chemistry</i> , 2020, 44, 11215-11223.	1.4	51
96	Facile synthesis of improved anatase TiO <sub>2</sub> nanoparticles for enhanced solar-light driven photocatalyst. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	11
97	Multifunctional quaternized chitosan@surface plasmon resonance Ag/N-TiO <sub>2</sub> core-shell microsphere for synergistic adsorption-photothermal catalysis degradation of low-temperature wastewater and bacteriostasis under visible light. <i>Chemical Engineering Journal</i> , 2020, 393, 124781.	6.6	54
98	Graphene-modulated assembly of zinc phthalocyanine on BiVO <sub>4</sub> nanosheets for efficient visible-light catalytic conversion of CO <sub>2</sub> . <i>Chemical Communications</i> , 2020, 56, 4926-4929.	2.2	17
99	Recent Developments of Advanced Ti <sub>3+</sub> -Self-Doped TiO <sub>2</sub> for Efficient Visible-Light-Driven Photocatalysis. <i>Catalysts</i> , 2020, 10, 679.	1.6	28
100	A systemic study on Gd, Fe and N co-doped TiO <sub>2</sub> nanomaterials for enhanced photocatalytic activity under visible light irradiation. <i>Ceramics International</i> , 2020, 46, 24744-24752.	2.3	28
101	In situ synthesis and improved photoelectric performances of a Sb <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> Se <sub>3</sub> heterojunction composite with potential photocatalytic activity for methyl orange degradation. <i>Ceramics International</i> , 2020, 46, 25503-25511.	2.3	14
102	ZnSe nanoparticles with bulk WC as cocatalyst: A novel and noble-metal-free heterojunction photocatalyst for enhancing photocatalytic hydrogen evolution under visible light irradiation. <i>Applied Materials Today</i> , 2020, 20, 100731.	2.3	23
103	Ion Sputtering-Assisted Double-Side Interfacial Engineering for CdIn <sub>2</sub> S <sub>4</sub> Photoanode toward Improved Photoelectrochemical Water Splitting. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901947.	1.9	15
104	Switching Light for Site-Directed Spatial Loading of Cocatalysts onto Heterojunction Photocatalysts with Boosted Redox Catalysis. <i>ACS Catalysis</i> , 2020, 10, 3194-3202.	5.5	93
105	Photocatalytic Degradation of Rhodamine B Dye by TiO <sub>2</sub> and Gold Nanoparticles Supported on a Floating Porous Polydimethylsiloxane Sponge under Ultraviolet and Visible Light Irradiation. <i>ACS Omega</i> , 2020, 5, 4233-4241.	1.6	152
106	A visible-light-photocatalytic water-splitting strategy for sustainable hydrogenation/deuteration of aryl chlorides. <i>Science China Chemistry</i> , 2020, 63, 386-392.	4.2	29
107	TiO <sub>2</sub> nanotubes modified with polydopamine and graphene quantum dots as a photochemical biosensor for the ultrasensitive detection of glucose. <i>Journal of Materials Science</i> , 2020, 55, 6105-6117.	1.7	19
108	CdS quantum dots modified surface oxygen vacancy defect ZnO <sub>1-x</sub> -TiO <sub>2-x</sub> solid solution sphere as Z-Scheme heterojunctions for efficient visible light-driven photothermal-photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154218.	2.8	20

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109	Construction of carbon bridged TiO <sub>2</sub> /CdS tandem Z-scheme heterojunctions toward efficient photocatalytic antibiotic degradation and Cr (VI) reduction. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153915.	2.8	59
110	Preparation and characterization of g-C <sub>3</sub> N <sub>4</sub> /Ag@TiO <sub>2</sub> ternary hollowsphere nanoheterojunction catalyst with high visible light photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153851.	2.8	77
111	Engineering surface defects on two-dimensional ultrathin mesoporous anatase TiO <sub>2</sub> nanosheets for efficient charge separation and exceptional solar-driven photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3476-3482.	2.7	34
112	Effect of ultrasound-induced hydroxylation and exfoliation on P90@TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrids with enhanced optoelectronic properties for visible-light photocatalysis and electrochemical sensing. <i>Ceramics International</i> , 2020, 46, 18002-18018.	2.3	31
113	Synthesis of carbon-doped SnO <sub>2</sub> nanostructures for visible-light-driven photocatalytic hydrogen production from water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32789-32796.	3.8	61
114	An Efficient and Stable MoS <sub>2</sub> /Zn <sub>0.5</sub> Cd <sub>0.5</sub> S Nanocatalyst for Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2020, 26, 12206-12211.	1.7	25
115	Hollow flower-like polyhedral $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /Defective MoS <sub>2</sub> /Ag Z-scheme heterojunctions with enhanced photocatalytic-Fenton performance via surface plasmon resonance and photothermal effects. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118978.	10.8	101
116	Enhanced Photoactivity and Photostability for Visible-Light-Driven Water Oxidation over BiFeO <sub>3</sub> Porous Nanotubes by Modification of Mo Doping and Carbon Nanocoating. <i>ChemNanoMat</i> , 2020, 6, 1325-1331.	1.5	24
117	Template-Free, Solid-State Synthesis of Hierarchically Macroporous S-Doped TiO <sub>2</sub> Nano-Photocatalysts for Efficient Water Remediation. <i>ACS Omega</i> , 2020, 5, 7969-7978.	1.6	29
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119	Promoting photocatalytic hydrogen evolution by introducing hot islands: SnSe nanoparticles on ZnIn <sub>2</sub> S <sub>4</sub> monolayer. <i>Chemical Engineering Journal</i> , 2021, 404, 126477.	6.6	44
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240	Highly enhanced photocatalytic property dominantly owing to the synergic effects of much negative E <sub>cb</sub> and S-scheme heterojunctions in composite g-C <sub>3</sub> N <sub>4</sub> /Mo-doped WO <sub>3</sub> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128682.	2.3	10
241	Visible-light-driven TiO <sub>2</sub> @N-Au nanorobot penetrating the vitreous. <i>Applied Materials Today</i> , 2022, 27, 101455.	2.3	8
242	Upgraded charge transport in g-C <sub>3</sub> N <sub>4</sub> nanosheets by boron doping and their heterojunction with 3D CdIn <sub>2</sub> S <sub>4</sub> for efficient photodegradation of azo dye. <i>Materials Today Chemistry</i> , 2022, 24, 100857.	1.7	8
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248	Urchinlike Carbon-Coated TiO <sub>2</sub> Microspheres with Enhanced Photothermal Photocatalytic Hydrogen Evolution Performance for Full-Spectrum Solar Energy Conversion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6436-6447.	1.8	6
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251	One-step synthesis of N-doped porous wall TiO <sub>2</sub> nanotube arrays for efficient removal of dibutyl phthalate under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 430, 113975.	2.0	5
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253	Solid-phase fabrication of TiO <sub>2</sub> /Chitosan-biochar composites with superior UV-vis light driven photocatalytic degradation performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129114.	2.3	28

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255	Visible-light-responsive Z-scheme heterojunction MoS <sub>2</sub> NTs/CuInS <sub>2</sub> QDs photoanode for enhanced photoelectrocatalytic degradation of tetracycline. <i>Applied Materials Today</i> , 2022, 28, 101504.	2.3	4
256	Constructing Co <sub>3</sub> O <sub>4</sub> /La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> p-n Heterojunction for the Enhancement of Photocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2022, 12, 1695.	1.9	4
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258	Construction of a 3D/2D plasmonic Z-scheme heterojunction with electrostatic self-assembly for full-spectrum solar-light driven photocatalytic protons reduction. <i>Materials Today Advances</i> , 2022, 15, 100249.	2.5	3
259	Heteroatom-induced domain electrostatic potential difference in ZnIn <sub>2</sub> S <sub>4</sub> nanosheets for efficient charge separation and boosted photocatalytic overall water splitting. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1795-1802.	3.2	8
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261	Phase engineering of CdS optimized by BP with p-n junction: Establishing spatial-gradient charges transmission mode toward efficient photocatalytic water reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121577.	10.8	17
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273	Bimetal defects boost efficient photocatalytic H <sub>2</sub> O <sub>2</sub> in-situ production of Cu <sub>1-x</sub> Co <sub>2-y</sub> O <sub>4-z</sub> for contaminant degradation. <i>Journal of Cleaner Production</i> , 2022, 369, 133245.	4.6	5
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282	Enhanced visible-light photocatalytic activity with Fe <sub>2</sub> O <sub>3</sub> @ZnO@g-C <sub>3</sub> N <sub>4</sub> heterojunction: Characterization, kinetics, and mechanisms. <i>Journal of Cleaner Production</i> , 2022, 377, 134511.	4.6	16
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302	Advances in photochemical splitting of seawater over semiconductor nano-catalysts for hydrogen production: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 121, 1-14.	2.9	23
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305	Ternary photocatalysts with electron modulation for efficient photocatalytic hydrogen evolution reactions: CdS-induced ring electrons transfer effect. <i>Materials Today Energy</i> , 2023, 32, 101235.	2.5	1
306	Recent Advances in Black TiO <sub>2</sub> Nanomaterials for Solar Energy Conversion. <i>Nanomaterials</i> , 2023, 13, 468.	1.9	8
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309	3D network-like SnIn <sub>4</sub> S <sub>8</sub> /TiO <sub>2</sub> for photoelectric electron storage and sustained cathodic protection applications in both light and dark conditions based on nanoarchitectonics. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	2
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323	The enhanced charge separation over dual Z-scheme MoS <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> /ZIF-8(Zn) photocatalyst: The boosted Fenton activation model and DFT calculation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 441, 114756.	2.0	6
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