## Jian Tian

## List of Publications by Year in descending order

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Version: 2024-02-01

		38720	4	46771
98	8,259	50		89
papers	citations	h-index		g-index
98	98	98		8767
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Recent progress in design, synthesis, and applications of one-dimensional TiO <sub>2</sub> nanostructured surface heterostructures: a review. Chemical Society Reviews, 2014, 43, 6920-6937.	18.7	726
2	2D/2D/2D heterojunction of Ti3C2 MXene/MoS2 nanosheets/TiO2 nanosheets with exposed (001) facets toward enhanced photocatalytic hydrogen production activity. Applied Catalysis B: Environmental, 2019, 246, 12-20.	10.8	373
3	3D Bi <sub>2</sub> MoO <sub>6</sub> Nanosheet/TiO <sub>2</sub> Nanobelt Heterostructure: Enhanced Photocatalytic Activities and Photoelectochemistry Performance. ACS Catalysis, 2015, 5, 4530-4536.	5.5	323
4	Boosting the Photocatalytic Ability of g-C <sub>3</sub> N <sub>4</sub> for Hydrogen Production by Ti <sub>3</sub> C <sub>2</sub> MXene Quantum Dots. ACS Applied Materials & Diterfaces, 2019, 11, 41440-41447.	4.0	289
5	Structure, Synthesis, and Applications of TiO <sub>2</sub> Nanobelts. Advanced Materials, 2015, 27, 2557-2582.	11.1	287
6	Enhanced Photocatalytic Performances of CeO <sub>2</sub> /TiO <sub>2</sub> Nanobelt Heterostructures. Small, 2013, 9, 3864-3872.	5.2	262
7	Ti3C2 MXene-derived Ti3C2/TiO2 nanoflowers for noble-metal-free photocatalytic overall water splitting. Applied Materials Today, 2018, 13, 217-227.	2.3	250
8	Ag 2 O nanoparticle/TiO 2 nanobelt heterostructures with remarkable photo-response and photocatalytic properties under UV, visible and near-infrared irradiation. Applied Catalysis B: Environmental, 2016, 198, 83-90.	10.8	219
9	The selective deposition of MoS2 nanosheets onto (101) facets of TiO2 nanosheets with exposed (001) facets and their enhanced photocatalytic H2 production. Applied Catalysis B: Environmental, 2019, 241, 329-337.	10.8	198
10	Sulfur Vacancy-Rich O-Doped 1T-MoS <sub>2</sub> Nanosheets for Exceptional Photocatalytic Nitrogen Fixation over CdS. ACS Applied Materials & Samp; Interfaces, 2020, 12, 7257-7269.	4.0	196
11	The fabrication of $1D/2D$ CdS nanorod@Ti3C2 MXene composites for good photocatalytic activity of hydrogen generation and ammonia synthesis. Chemical Engineering Journal, 2021, 406, 127177.	6.6	187
12	Synergetic effect of defects rich MoS2 and Ti3C2 MXene as cocatalysts for enhanced photocatalytic H2 production activity of TiO2. Chemical Engineering Journal, 2020, 383, 123178.	6.6	175
13	Photocatalytic H2 Evolution on TiO2 Assembled with Ti3C2 MXene and Metallic 1T-WS2 as Co-catalysts. Nano-Micro Letters, 2020, 12, 6.	14.4	141
14	Conductive Polymer-Coated VS <sub>4</sub> Submicrospheres As Advanced Electrode Materials in Lithium-Ion Batteries. ACS Applied Materials & Samp; Interfaces, 2016, 8, 18797-18805.	4.0	134
15	Enhanced Photocatalytic Property of Reduced Graphene Oxide/TiO <sub>2</sub> Nanobelt Surface Heterostructures Constructed by an In Situ Photochemical Reduction Method. Small, 2014, 10, 3775-3782.	5.2	130
16	Controllable growth of MoS2 nanosheets on novel Cu2S snowflakes with high photocatalytic activity. Applied Catalysis B: Environmental, 2018, 232, 355-364.	10.8	129
17	Co doped MoS2 as cocatalyst considerably improved photocatalytic hydrogen evolution of g-C3N4 in an alkalescent environment. Chemical Engineering Journal, 2021, 421, 130016.	6.6	127
18	Porous g-C3N4 with nitrogen defects and cyano groups for excellent photocatalytic nitrogen fixation without co-catalysts. Journal of Colloid and Interface Science, 2019, 556, 206-213.	5.0	125

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19	Full solar spectrum photocatalytic oxygen evolution by carbon-coated TiO2 hierarchical nanotubes. Applied Catalysis B: Environmental, 2019, 243, 711-720.	10.8	117
20	The metallic 1T-phase WS2 nanosheets as cocatalysts for enhancing the photocatalytic hydrogen evolution of g-C3N4 nanotubes. Applied Catalysis B: Environmental, 2020, 274, 119114.	10.8	116
21	Highly efficient full solar spectrum (UV-vis-NIR) photocatalytic performance of Ag2S quantum dot/TiO2 nanobelt heterostructures. Journal of Industrial and Engineering Chemistry, 2017, 45, 189-196.	2.9	103
22	1D Ni–Co oxide and sulfide nanoarray/carbon aerogel hybrid nanostructures for asymmetric supercapacitors with high energy density and excellent cycling stability. Nanoscale, 2016, 8, 16292-16301.	2.8	101
23	Porous ZnO Ultrathin Nanosheets with High Specific Surface Areas and Abundant Oxygen Vacancies for Acetylacetone Gas Sensing. ACS Applied Materials & Samp; Interfaces, 2019, 11, 24757-24763.	4.0	100
24	Recent Advances in Catalyst Structure and Composition Engineering Strategies for Regulating CO <sub>2</sub> Electrochemical Reduction. Advanced Materials, 2021, 33, e2005484.	11,1	100
25	Silver oxide decorated graphitic carbon nitride for the realization of photocatalytic degradation over the full solar spectrum: From UV to NIR region. Solar Energy Materials and Solar Cells, 2017, 168, 100-111.	3.0	99
26	Bi <sub>2</sub> WO <sub>6</sub> Nanosheets Decorated with Au Nanorods for Enhanced Nearâ€Infrared Photocatalytic Properties Based on Surface Plasmon Resonance Effects and Wideâ€Range Nearâ€Infrared Light Harvesting. ChemCatChem, 2017, 9, 1511-1516.	1.8	95
27	Two-dimensional/one-dimensional molybdenum sulfide (MoS2) nanoflake/graphitic carbon nitride (g-C3N4) hollow nanotube photocatalyst for enhanced photocatalytic hydrogen production activity. Journal of Colloid and Interface Science, 2020, 567, 300-307.	5.0	93
28	High-Performance Electrocatalytic Conversion of N <sub>2</sub> to NH <sub>3</sub> Using 1T-MoS <sub>2</sub> Anchored on Ti <sub>3</sub> C <sub>2</sub> MXene under Ambient Conditions. ACS Applied Materials & District Conditions.	4.0	92
29	Hydrogenated TiO2 nanobelts as highly efficient photocatalytic organic dye degradation and hydrogen evolution photocatalyst. Journal of Hazardous Materials, 2015, 299, 165-173.	6.5	89
30	Synthesis of few-layer MoS2 nanosheets-coated TiO2 nanosheets on graphite fibers for enhanced photocatalytic properties. Solar Energy Materials and Solar Cells, 2017, 172, 108-116.	3.0	89
31	Soft-templated formation of double-shelled ZnO hollow microspheres for acetone gas sensing at low concentration/near room temperature. Sensors and Actuators B: Chemical, 2018, 273, 751-759.	4.0	87
32	1T-MoS <sub>2</sub> nanopatch/Ti <sub>3</sub> C <sub>2</sub> MXene/TiO <sub>2</sub> nanosheet hybrids for efficient photocatalytic hydrogen evolution. Materials Chemistry Frontiers, 2019, 3, 2673-2680.	3.2	81
33	Phosphorous-doped 1T-MoS2 decorated nitrogen-doped g-C3N4 nanosheets for enhanced photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2022, 605, 320-329.	5.0	81
34	Hierarchical assembly of In 2 O 3 nanoparticles on ZnO hollow nanotubes using carbon fibers as templates: Enhanced photocatalytic and gas-sensing properties. Journal of Colloid and Interface Science, 2017, 498, 263-270.	5.0	78
35	Facile synthesis of heterojunction of MXenes/TiO2 nanoparticles towards enhanced hexavalent chromium removal. Journal of Colloid and Interface Science, 2020, 561, 46-57.	5.0	78
36	Towards full-spectrum (UV, visible, and near-infrared) photocatalysis: achieving an all-solid-state Z-scheme between Ag <sub>2</sub> O and TiO <sub>2</sub> using reduced graphene oxide as the electron mediator. Catalysis Science and Technology, 2017, 7, 4193-4205.	2.1	76

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37	Metallic 1T-phase MoS <sub>2</sub> quantum dots/g-C <sub>3</sub> N <sub>4</sub> heterojunctions for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 12266-12274.	2.8	76
38	Au nanorods decorated TiO2 nanobelts with enhanced full solar spectrum photocatalytic antibacterial activity and the sterilization file cabinet application. Chinese Chemical Letters, 2021, 32, 1523-1526.	4.8	76
39	Rationalizing and controlling the phase transformation of semi-metallic 1T′-phase and semi-conductive 2H-phase MoS2 as cocatalysts for photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 396, 125344.	6.6	71
40	High yield production of reduced TiO2 with enhanced photocatalytic activity. Applied Surface Science, 2016, 360, 738-743.	3.1	70
41	A simple gas sensor based on zinc ferrite hollow spheres: Highly sensitivity, excellent selectivity and long-term stability. Sensors and Actuators B: Chemical, 2019, 280, 34-40.	4.0	70
42	Synthesis of novel Ag/Ag2O heterostructures with solar full spectrum (UV, visible and near-infrared) light-driven photocatalytic activity and enhanced photoelectrochemical performance. Catalysis Communications, 2016, 87, 82-85.	1.6	68
43	1â€T-phase molybdenum sulfide nanodots enable efficient electrocatalytic nitrogen fixation under ambient conditions. Applied Catalysis B: Environmental, 2020, 272, 118984.	10.8	68
44	Facile preparation of metallic 1T phase molybdenum selenide as cocatalyst coupled with graphitic carbon nitride for enhanced photocatalytic H2 production. Journal of Colloid and Interface Science, 2021, 598, 172-180.	5.0	68
45	Gold nanorods/g-C3N4 heterostructures for plasmon-enhanced photocatalytic H2 evolution in visible and near-infrared light. Journal of Colloid and Interface Science, 2019, 557, 700-708.	5.0	66
46	Construction of hierarchical 2D/2D Ti3C2/MoS2 nanocomposites for high-efficiency solar steam generation. Journal of Colloid and Interface Science, 2021, 584, 125-133.	5.0	66
47	Oxygen vacancy-rich BiO2-x ultra-thin nanosheet for efficient full-spectrum responsive photocatalytic oxygen evolution from water splitting. Solar Energy Materials and Solar Cells, 2019, 195, 309-317.	3.0	60
48	Visible photocatalytic and photoelectrochemical activities of TiO2 nanobelts modified by In2O3 nanoparticles. Journal of Colloid and Interface Science, 2017, 487, 258-265.	5.0	58
49	RuO2/TiO2 nanobelt heterostructures with enhanced photocatalytic activity and gas-phase selective oxidation of benzyl alcohol. Solar Energy Materials and Solar Cells, 2016, 151, 7-13.	3.0	55
50	Enabling efficient electrocatalytic conversion of N2 to NH3 by Ti3C2 MXene loaded with semi-metallic 1T′-MoS2 nanosheets. Applied Catalysis B: Environmental, 2022, 310, 121277.	10.8	54
51	Titanium carbide MXenes coupled with cadmium sulfide nanosheets as two-dimensional/two-dimensional heterostructures for photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2022, 613, 644-651.	5.0	53
52	TiO2 nanobelts with anatase/rutile heterophase junctions for highly efficient photocatalytic overall water splitting. Journal of Colloid and Interface Science, 2020, 567, 181-189.	5.0	52
53	ZnO@Ti3C2 MXene interfacial Schottky junction for boosting spatial charge separation in photocatalytic degradation. Journal of Alloys and Compounds, 2022, 905, 164025.	2.8	51
54	Novel Ag2O nanoparticles modified MoS2 nanoflowers for piezoelectric-assisted full solar spectrum photocatalysis. Journal of Colloid and Interface Science, 2019, 537, 206-214.	5.0	50

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55	Large-scale synthesis of porous nickel boride for robust hydrogen evolution reaction electrocatalyst. Applied Surface Science, 2019, 470, 591-595.	3.1	48
56	1T-phase MoS <sub>2</sub> quantum dots as a superior co-catalyst to Pt decorated on carbon nitride nanorods for photocatalytic hydrogen evolution from water. Materials Chemistry Frontiers, 2019, 3, 2032-2040.	3.2	45
57	Growth of porous ZnO single crystal hierarchical architectures with ultrahigh sensing performances to ethanol and acetone gases. Ceramics International, 2017, 43, 1121-1128.	2.3	44
58	Adsorption and intercalation of organic pollutants and heavy metal ions into MgAl-LDHs nanosheets with high capacity. RSC Advances, 2016, 6, 92402-92410.	1.7	41
59	Bi <sub>2</sub> O <sub>3</sub> nanoparticles incorporated porous TiO <sub>2</sub> films as an effective <i>p</i> â€ <i>n</i> junction with enhanced photocatalytic activity. Journal of the American Ceramic Society, 2017, 100, 1339-1349.	1.9	41
60	Integrating the Z-scheme heterojunction into a novel Ag2O@rGO@reduced TiO2 photocatalyst: Broadened light absorption and accelerated charge separation co-mediated highly efficient UV/visible/NIR light photocatalysis. Journal of Colloid and Interface Science, 2019, 538, 689-698.	5.0	39
61	Synthesis of salicylic acid-modified graphite carbon nitride for enhancing photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2020, 571, 318-325.	5.0	38
62	In <sub>2</sub> O <sub>3</sub> Nanoparticles Decorated ZnO Hierarchical Structures for <i>n</i> -Butanol Sensor. ACS Applied Nano Materials, 2020, 3, 3295-3304.	2.4	37
63	A cation exchange strategy to construct Rod-shell CdS/Cu2S nanostructures for broad spectrum photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2022, 608, 158-163.	5.0	37
64	TiO <sub>2</sub> Nanobelts Decorated with In <sub>2</sub> S <sub>3</sub> Nanoparticles as Photocatalysts with Enhanced Fullâ€Solarâ€Spectrum (UV–vis–NIR) Photocatalytic Activity toward the Degradation of Tetracycline. Particle and Particle Systems Characterization, 2017, 34, 1700127.	1.2	36
65	Scalable and low-cost fabrication of hydrophobic PVDF/WS2 porous membrane for highly efficient solar steam generation. Journal of Colloid and Interface Science, 2021, 588, 369-377.	5.0	36
66	Synthesis of In <sub>2</sub> O <sub>3</sub> nanoparticle/TiO <sub>2</sub> nanobelt heterostructures for near room temperature ethanol sensing. RSC Advances, 2017, 7, 11503-11509.	1.7	35
67	Vanadium sulfide sub-microspheres: A new near-infrared-driven photocatalyst. Journal of Colloid and Interface Science, 2017, 498, 442-448.	5.0	35
68	Fabrication of TiO2 nanoflowers with bronze (TiO2(B))/anatase heterophase junctions for efficient photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 24398-24406.	3.8	34
69	Synergistic Enhancement of Electrocatalytic Nitrogen Reduction over Few-Layer MoSe <sub>2</sub> -Decorated Ti <sub>3</sub> C <sub>2</sub> T <i><sub>x</sub></i> MXene. ACS Catalysis, 2022, 12, 6385-6393.	5.5	33
70	The metallic 1T-WS2 as cocatalysts for promoting photocatalytic N2 fixation performance of Bi5O7Br nanosheets. Chinese Chemical Letters, 2021, 32, 3501-3504.	4.8	32
71	One-dimensional screw-like MoS2 with oxygen partially replacing sulfur as an electrocatalyst for the N2 reduction reaction. Chemical Engineering Journal, 2022, 433, 134504.	6.6	32
72	MOF-derived Fe2O3@MoS2: An efficient electrocatalyst for ammonia synthesis under mild conditions. Chemical Engineering Journal, 2022, 430, 132694.	6.6	31

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73	Ru nanoparticles decorated TiO 2 nanobelts: A heterostructure towards enhanced photocatalytic activity and gas-phase selective oxidation of benzyl alcohol. Ceramics International, 2016, 42, 1611-1617.	2.3	29
74	Highly efficient photocatalytic activity of Ag <sub>3</sub> PO <sub>4</sub> /Ag/ZnS(en) <sub>0.5</sub> photocatalysts through Z-scheme photocatalytic mechanism. RSC Advances, 2017, 7, 18392-18399.	1.7	29
75	Noble metal-like behavior of plasmonic Bi particles deposited on reduced TiO2 microspheres for efficient full solar spectrum photocatalytic oxygen evolution. Chinese Journal of Catalysis, 2020, 41, 333-340.	6.9	27
76	Fabrication of porous Zn2TiO4–ZnO microtubes and analysis of their acetone gas sensing properties. Rare Metals, 2021, 40, 1528-1535.	3.6	27
77	NiO nanoparticles-decorated ZnO hierarchical structures for isopropanol gas sensing. Rare Metals, 2022, 41, 960-971.	3.6	27
78	TiO2 Nanobelt@Co9S8 Composites as Promising Anode Materials for Lithium and Sodium Ion Batteries. Nanomaterials, 2017, 7, 252.	1.9	26
79	The fabrication of graphitic carbon nitride hollow nanocages with semi-metal 1T' phase molybdenum disulfide as co-catalysts for excellent photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2022, 608, 1229-1237.	5.0	26
80	Heterostructuring 2D TiO2 nanosheets in situ grown on Ti3C2T MXene to improve the electrocatalytic nitrogen reduction. Chinese Journal of Catalysis, 2022, 43, 1937-1944.	6.9	25
81	Novel (Ni, Fe)S2/(Ni, Fe)3S4 solid solution hybrid: an efficient electrocatalyst with robust oxygen-evolving performance. Science China Chemistry, 2020, 63, 1030-1039.	4.2	22
82	Synthesis of porous few-layer carbon nitride with excellent photocatalytic nitrogen fixation. Journal of Materiomics, 2020, 6, 128-137.	2.8	22
83	Heterostructuring noble-metal-free 1T' phase MoS2 with g-C3N4 hollow nanocages to improve the photocatalytic H2 evolution activity. Green Energy and Environment, 2023, 8, 864-873.	4.7	22
84	Porous graphitic carbon nitride with nitrogen defects and cobalt-nitrogen (Co N) bonds for efficient broad spectrum (visible and near-infrared) photocatalytic H2 production. Journal of Colloid and Interface Science, 2020, 561, 719-729.	5.0	21
85	The high surface energy of NiO $\{110\}$ facets incorporated into TiO2 hollow microspheres by etching Ti plate for enhanced photocatalytic and photoelectrochemical activity. Applied Surface Science, 2017, 396, 1539-1545.	3.1	20
86	Fabrication of molybdenum and tungsten oxide, sulfide, phosphide (MoxW1-xO2/MoxW1-xS2/MoxW1-xP) porous hollow nano-octahedrons from metal-organic frameworks templates as efficient hydrogen evolution reaction electrocatalysts. Journal of Colloid and Interface Science, 2019, 547, 339-349.	5.0	20
87	Non-high temperature method to synthesize carbon coated TiO2 nano-dendrites for enhanced wide spectrum photocatalytic hydrogen evolution activity. Journal of Colloid and Interface Science, 2020, 571, 412-418.	5.0	20
88	Remarkable charge separation and photocatalytic efficiency enhancement through TiO2(B)/anatase hetrophase junctions of TiO2 nanobelts. International Journal of Hydrogen Energy, 2019, 44, 27311-27318.	3.8	19
89	Structure engineering of 1T/2H multiphase MoS2 via oxygen incorporation over 2D layered porous g-C3N4 for remarkably enhanced photocatalytic hydrogen evolution. Materials Today Nano, 2022, 18, 100204.	2.3	19
90	A novel semi-metallic 1T′-MoReS3 co-catalyst. Chemical Engineering Journal, 2021, 425, 130525.	6.6	16

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91	An iron incorporation-induced nickel hydroxide multiphase with a 2D/3D hierarchical sheet-on-sheet structure for electrocatalytic water oxidation. Chemical Communications, 2019, 55, 10138-10141.	2.2	15
92	Semiâ€metal <scp>1T</scp> ′ phase <scp>MoS<sub>2</sub></scp> nanosheets for promoted electrocatalytic nitrogen reduction. EcoMat, 2021, 3, e12122.	6.8	15
93	Nitrogen-functionalized carbon nanotube-supported bimetallic PtNi nanoparticles for hydrogen generation from hydrous hydrazine. Chemical Communications, 2021, 57, 8324-8327.	2.2	15
94	Chemical Assembly of Titania P25 on MoO <sub>3</sub> Nanobelts with Enhanced UV and Visible Photocatalytic Activities. Science of Advanced Materials, 2016, 8, 2313-2321.	0.1	13
95	Cobalt doped Mo <sub>5</sub> N <sub>6</sub> as a noble-metal-free novel cocatalyst for promoting photocatalytic hydrogen production of g-C <sub>3</sub> N <sub>4</sub> nanosheets. Materials Chemistry Frontiers, 2022, 6, 718-723.	3.2	10
96	Enhanced Photocatalytic Antibacterial Properties of TiO2 Nanospheres with Rutile/Anatase Heterophase Junctions and the Archival Paper Protection Application. Nanomaterials, 2021, 11, 2585.	1.9	9
97	Insights into the function of semi-metallic 1T' phase ReS2 as cocatalyst decorated g-C3N4 nanotubes for enhanced photocatalytic hydrogen production activity. Materials Today Advances, 2022, 15, 100257.	2.5	9
98	Homophase structure for promoting electron transfer in gas-sensing. Sensors and Actuators B: Chemical, 2019, 298, 126940.	4.0	4