

Quan-Jun Xiang

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95
papers

17,010
citations

50
h-index

99
g-index

99
ext. papers

19,544
ext. citations

10.1
avg, IF

7.6
L-index

#	Paper	IF	Citations
95	Graphene-based semiconductor photocatalysts. <i>Chemical Society Reviews</i> , 2012 , 41, 782-96	58.5	2274
94	Synergetic effect of MoS ₂ and graphene as cocatalysts for enhanced photocatalytic H ₂ production activity of TiO ₂ nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6575-8	16.4	2059
93	Preparation and Enhanced Visible-Light Photocatalytic H ₂ -Production Activity of Graphene/C ₃ N ₄ Composites. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7355-7363	3.8	1511
92	CdS-Based photocatalysts. <i>Energy and Environmental Science</i> , 2018 , 11, 1362-1391	35.4	765
91	Enhanced photocatalytic H ₂ production activity of graphene-modified titania nanosheets. <i>Nanoscale</i> , 2011 , 3, 3670-8	7.7	678
90	Preparation, characterization and visible-light-driven photocatalytic activity of Fe-doped titania nanorods and first-principles study for electronic structures. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 595-602	21.8	646
89	Graphene-Based Photocatalysts for Solar-Fuel Generation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11350-66	16.4	604
88	Quantitative characterization of hydroxyl radicals produced by various photocatalysts. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 163-7	9.3	527
87	Graphene-Based Photocatalysts for Hydrogen Generation. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 753-9	6.4	463
86	Pivotal role of fluorine in enhanced photocatalytic activity of anatase TiO ₂ nanosheets with dominant {001} facets for the photocatalytic degradation of acetone in air. <i>Applied Catalysis B: Environmental</i> , 2010 , 96, 557-564	21.8	456
85	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO ₂ sheets with exposed {001} facets. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1049-1057		360
84	Enhanced photocatalytic activity of hierarchical macro/mesoporous TiO ₂ /graphene composites for photodegradation of acetone in air. <i>Applied Catalysis B: Environmental</i> , 2012 , 119-120, 109-116	21.8	329
83	Nitrogen self-doped nanosized TiO ₂ sheets with exposed {001} facets for enhanced visible-light photocatalytic activity. <i>Chemical Communications</i> , 2011 , 47, 6906-8	5.8	319
82	Improved visible-light photocatalytic activity of porous carbon self-doped ZnO nanosheet-assembled flowers. <i>CrystEngComm</i> , 2011 , 13, 2533	3.3	300
81	Review on Metal Sulphide-based Z-scheme Photocatalysts. <i>ChemCatChem</i> , 2019 , 11, 1394-1411	5.2	292
80	Graphene-modified nanosized Ag ₃ PO ₄ photocatalysts for enhanced visible-light photocatalytic activity and stability. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 196-203	21.8	276
79	Nitrogen and sulfur co-doped TiO ₂ nanosheets with exposed {001} facets: synthesis, characterization and visible-light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4853-61	3.6	264

78	Tunable photocatalytic selectivity of TiO ₂ films consisted of flower-like microspheres with exposed {001} facets. <i>Chemical Communications</i> , 2011 , 47, 4532-4	5.8	237
77	One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO ₂ hollow microspheres and tabular anatase single micro-crystals with high-energy facets. <i>CrystEngComm</i> , 2010 , 12, 872-879	3.3	226
76	Hierarchical porous CdS nanosheet-assembled flowers with enhanced visible-light photocatalytic H ₂ -production performance. <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 299-303	21.8	225
75	Hierarchical Layered WS ₂ /Graphene-Modified CdS Nanorods for Efficient Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2016 , 9, 996-1002	8.3	223
74	Effect of calcination temperature on morphology and photocatalytic activity of anatase TiO ₂ nanosheets with exposed {001} facets. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 275-281	21.8	183
73	A review on 2D MoS ₂ cocatalysts in photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020 , 56, 89-121	9.1	182
72	Low-temperature solid-state preparation of ternary CdS/g-C ₃ N ₄ /CuS nanocomposites for enhanced visible-light photocatalytic H ₂ -production activity. <i>Applied Surface Science</i> , 2017 , 391, 432-439	6.7	179
71	Ni-based photocatalytic H ₂ -production cocatalysts ² . <i>Chinese Journal of Catalysis</i> , 2019 , 40, 240-288	11.3	173
70	Crystalline Carbon Nitride Supported Copper Single Atoms for Photocatalytic CO Reduction with Nearly 100% CO Selectivity. <i>ACS Nano</i> , 2020 , 14, 10552-10561	16.7	155
69	Roles of MoS ₂ and Graphene as Cocatalysts in the Enhanced Visible-Light Photocatalytic H ₂ Production Activity of Multiarmed CdS Nanorods. <i>ChemCatChem</i> , 2015 , 7, 943-951	5.2	153
68	Enhanced photocatalytic H ₂ -production activity of C-dots modified g-CN/TiO nanosheets composites. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 866-876	9.3	153
67	Enhancement of photocatalytic H ₂ production activity of CdS nanorods by cobalt-based cocatalyst modification. <i>Catalysis Science and Technology</i> , 2016 , 6, 6207-6216	5.5	138
66	Surface and interface engineering of hierarchical photocatalysts. <i>Applied Surface Science</i> , 2019 , 471, 43-87	11.7	135
65	Visible-light-driven CdSe quantum dots/graphene/TiO ₂ nanosheets composite with excellent photocatalytic activity for E. coli disinfection and organic pollutant degradation. <i>Applied Surface Science</i> , 2018 , 457, 846-855	6.7	132
64	Constructing low-cost Ni ₃ C/twin-crystal Zn _{0.5} Cd _{0.5} S heterojunction/homojunction nano hybrids for efficient photocatalytic H ₂ evolution. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 25-36	11.3	126
63	Two-Dimensional Transition Metal MXene-Based Photocatalysts for Solar Fuel Generation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3488-3494	6.4	125
62	Strongly coupled 2D-2D nanojunctions between P-doped Ni ₂ S (Ni ₂ SP) cocatalysts and CdS nanosheets for efficient photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2020 , 390, 124496	14.7	115
61	Design and application of active sites in g-C ₃ N ₄ -based photocatalysts. <i>Journal of Materials Science and Technology</i> , 2020 , 56, 69-88	9.1	108

60	Plasma-modified TiO ₂ /CdS hybrids with oxygen-containing groups for high-efficiency photocatalytic hydrogen production. <i>Nanoscale</i> , 2019 , 11, 18797-18805	7.7	91
59	Constructing functionalized plasmonic gold/titanium dioxide nanosheets with small gold nanoparticles for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 94-103	9.3	91
58	Single Ni Atoms Anchored on Porous Few-Layer g-C ₃ N ₄ for Photocatalytic CO Reduction: The Role of Edge Confinement. <i>Small</i> , 2020 , 16, e2002411	11	87
57	Effects of crystalline phase and morphology on the visible light photocatalytic H ₂ production activity of CdS nanocrystals. <i>Dalton Transactions</i> , 2014 , 43, 7245-53	4.3	84
56	Porous graphitic carbon nitride for solar photocatalytic applications. <i>Nanoscale Horizons</i> , 2020 , 5, 765-786	6.8	79
55	Enhanced photocatalytic hydrogen production activity of highly crystalline carbon nitride synthesized by hydrochloric acid treatment. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 21-30	11.3	76
54	Photocatalytic Activity of Hierarchical Flower-Like TiO ₂ Superstructures with Dominant {001} Facets. <i>Chinese Journal of Catalysis</i> , 2011 , 32, 525-531	11.3	69
53	Mechanisms of Mn(II) catalytic oxidation on ferrihydrite surfaces and the formation of manganese (oxyhydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 211, 79-96	5.5	67
52	Crystalline isotype heptazine-/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118381	21.8	66
51	Synthesis of Mn ₂ O ₃ microstructures and their energy storage ability studies. <i>Electrochimica Acta</i> , 2013 , 106, 360-371	6.7	63
50	Enhanced photocatalytic hydrogen evolution activity of carbon and nitrogen self-doped TiO ₂ hollow sphere with the creation of oxygen vacancy and Ti ³⁺ . <i>Materials Today Energy</i> , 2018 , 10, 132-140	7	56
49	Single Au Atoms Anchored on Amino-Group-Enriched Graphitic Carbon Nitride for Photocatalytic CO Reduction. <i>ChemSusChem</i> , 2020 , 13, 1979-1985	8.3	55
48	Structural engineering of 3D hierarchical Cd _{0.8} Zn _{0.2} S for selective photocatalytic CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 131-140	11.3	54
47	Plasma-based surface modification of g-C ₃ N ₄ nanosheets for highly efficient photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019 , 495, 143520	6.7	52
46	Highly crystalline carbon nitride hollow spheres with enhanced photocatalytic performance. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 627-636	11.3	50
45	One-Step Solid-Phase Synthesis of 2D Ultrathin CdS Nanosheets for Enhanced Visible-Light Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2019 , 3, 1900062	7.1	48
44	Microwave-hydrothermal preparation and visible-light photoactivity of plasmonic photocatalyst Ag-TiO ₂ nanocomposite hollow spheres. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1466-74	4.5	48
43	Amine-functionalized graphitic carbon nitride decorated with small-sized Au nanoparticles for photocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 11-19	9.3	46

42	Interfacial modification of titanium dioxide to enhance photocatalytic efficiency towards H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 376-385	9.3	44
41	Nanosheet-assembled hierarchical flower-like g-CN for enhanced photocatalytic CO reduction activity. <i>Chemical Communications</i> , 2020 , 56, 2443-2446	5.8	42
40	Photokatalysatoren auf Graphenbasis für die Produktion von Solarbrennstoffen. <i>Angewandte Chemie</i> , 2015 , 127, 11508-11524	3.6	42
39	Truncated octahedral bipyramidal TiO ₂ /MXene Ti ₃ C ₂ hybrids with enhanced photocatalytic H ₂ production activity. <i>Nanoscale Advances</i> , 2019 , 1, 1812-1818	5.1	38
38	Construction of an Ultrathin S-Scheme Heterojunction Based on Few-Layer g-C ₃ N ₄ and Monolayer Ti ₃ C ₂ T _x MXene for Photocatalytic CO ₂ Reduction. <i>Solar Rrl</i> , 2021 , 5, 2000351	7.1	38
37	Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. <i>Small</i> , 2021 , 17, e2005231	11	37
36	Dual-Single-Atom Tailoring with Bifunctional Integration for High-Performance CO Photoreduction. <i>Advanced Materials</i> , 2021 , e2105135	24	31
35	State-of-the-art recent progress in MXene-based photocatalysts: a comprehensive review. <i>Nanoscale</i> , 2021 , 13, 9463-9504	7.7	31
34	Effects of morphology and exposed facets of Fe ₂ O ₃ nanocrystals on photocatalytic water oxidation. <i>RSC Advances</i> , 2015 , 5, 52210-52216	3.7	30
33	A solid-state approach to fabricate a CdS/CuS nano-heterojunction with promoted visible-light photocatalytic H ₂ -evolution activity. <i>RSC Advances</i> , 2016 , 6, 76269-76272	3.7	27
32	Transition-Metal-Ion (Fe, Co, Cr, Mn, Etc.) Doping of TiO Nanotubes: A General Approach. <i>Inorganic Chemistry</i> , 2019 , 58, 12511-12515	5.1	26
31	Targeted regulation of exciton dissociation in graphitic carbon nitride by vacancy modification for efficient photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120179	21.8	26
30	Review of Water-Assisted Crystallization for TiO Nanotubes. <i>Nano-Micro Letters</i> , 2018 , 10, 77	19.5	24
29	Metal phosphide modified Cd _x Zn _{1-x} S solid solutions as a highly active visible-light photocatalyst for hydrogen evolution. <i>Applied Catalysis A: General</i> , 2020 , 590, 117336	5.1	23
28	Local structure of Cu ²⁺ in Cu-doped hexagonal turbostratic birnessite and Cu ²⁺ stability under acid treatment. <i>Chemical Geology</i> , 2017 , 466, 512-523	4.2	22
27	Highly enhanced degradation of organic pollutants in hematite/sulfite/photo system. <i>Chemical Engineering Journal</i> , 2020 , 386, 124007	14.7	21
26	Steering the behavior of photogenerated carriers in semiconductor photocatalysts: a new insight and perspective. <i>Journal of Materials Chemistry A</i> ,	13	21
25	Construction of efficient active sites through cyano-modified graphitic carbon nitride for photocatalytic CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1608-1616	11.3	21

24	Synthesis and photocatalytic H ₂ -production activity of plasma-treated Ti ₃ C ₂ T _x MXene modified graphitic carbon nitride. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 849-858	3.8	20
23	Facile hydrothermal synthesis and electrochemical properties of orthorhombic LiMnO ₂ cathode materials for rechargeable lithium batteries. <i>RSC Advances</i> , 2014 , 4, 13693-13703	3.7	19
22	Ternary Reduced Graphene Oxide/g-C ₃ N ₄ /Ag-AgCl Nanocomposites for Controlled Visible-Light Photocatalytic Selectivity. <i>ChemistrySelect</i> , 2016 , 1, 1006-1015	1.8	19
21	Recent advances in crystalline carbon nitride for photocatalysis. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 224-240	9.1	15
20	Effects of Mn average oxidation state on the oxidation behaviors of As(III) and Cr(III) by vernadite. <i>Applied Geochemistry</i> , 2018 , 94, 35-45	3.5	12
19	2D/2D BiVO ₄ /CsPbBr ₃ S-scheme heterojunction for photocatalytic CO ₂ reduction: Insights into structure regulation and Fermi level modulation. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120979	21.8	12
18	Hydrogen evolution promotion of Au-nanoparticles-decorated TiO ₂ nanotube arrays prepared by dip-loading approach. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5873-5880	3.8	10
17	Construction 0D/2D heterojunction by highly dispersed AgS quantum dots (QDs) loaded on the g-CN nanosheets for photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 662-675	9.3	9
16	Semiconductor terahertz modulator arrays: the size and edge effect. <i>Optics Letters</i> , 2018 , 43, 3021-3024		8
15	Preparation of Au/TiO ₂ /MoS ₂ Plasmonic Composite Photocatalysts with Enhanced Photocatalytic Hydrogen Generation Activity. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2018 , 34, 414-423	3.8	7
14	Crystalline Intramolecular Ternary Carbon Nitride Homojunction for Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2021 , 11, 6345-6358	13.1	7
13	Fabrication of Heterostructured Metal Oxide/TiO Nanotube Arrays Prepared via Thermal Decomposition and Crystallization. <i>Inorganic Chemistry</i> , 2018 , 57, 10249-10256	5.1	6
12	Thermal insulation design for efficient and scalable solar water interfacial evaporation and purification. <i>Journal of Materials Science and Technology</i> , 2021 , 66, 157-162	9.1	6
11	Accordion-like composite of carbon-coated Fe ₃ O ₄ nanoparticle decorated Ti ₃ C ₂ MXene with enhanced electrochemical performance. <i>Journal of Materials Science</i> , 2021 , 56, 2486-2496	4.3	6
10	Site-Specific Electron-Driving Observations of CO ₂ -to-CH ₄ Photoreduction on Co-doped CeO ₂ /Crystalline Carbon Nitride S-scheme Heterojunctions. <i>Advanced Materials</i> , 2022 , e2200929	24	6
9	Magnetite/Iron Foil as an Effective and Nonfiltration Catalyst for Heterogeneous Fenton-like Reactions under Neutral Conditions. <i>Inorganic Chemistry</i> , 2019 , 58, 4718-4721	5.1	5
8	Copper and platinum dual-single-atoms supported on crystalline graphitic carbon nitride for enhanced photocatalytic CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 451-460	11.3	5
7	Synthesis and Visible-Light Photocatalytic Performance of Cadmium Sulfide and Oxide Hexagonal Nanoplates. <i>ChemPlusChem</i> , 2014 , 79, n/a-n/a	2.8	4

6	Internal Electric Field on Steering Charge Migration: Modulations, Determinations and Energy-Related Applications. <i>Advanced Functional Materials</i> , 2110258	15.6	4
5	Highly Efficient Photocatalytic Reduction of CO ₂ to CO by In Situ Formation of a Hybrid Catalytic System Based on Molecular Iron Quaterpyridine Covalently Linked to Carbon Nitride.. <i>Angewandte Chemie - International Edition</i> , 2022,	16.4	3
4	An Effective Approach to Fabricate Self-Supported Fe ₃ O ₄ Nanocrystals Derived from Iron Substrate. <i>Journal of the Electrochemical Society</i> , 2019, 166, D99-D103	3.9	2
3	UV Radiation Cumulative Recording Based on Amorphous TiO Nanotubes. <i>ACS Sensors</i> , 2019, 4, 2429-2434	3.4	2
2	In situ oxidation of ultrathin Ti ₃ C ₂ T _x MXene modified with crystalline g-C ₃ N ₄ nanosheets for photocatalytic H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 47, 4546-4546	6.7	2
1	Cu clusters immobilized on Cd-defective cadmium sulfide nano-rods towards photocatalytic CO ₂ reduction. <i>Journal of Materials Science and Technology</i> , 2022, 118, 54-63	9.1	1