Fuxiang Zhang

List of Publications by Year
in descending order

116 papers	9,259 citations	41344 49 h-index	39675 94 g-index
121 all docs	121 docs citations	121 times ranked	10088 citing authors

#	Article	IF	Citations
1	Visible Light-Responsive N-Doped TiO2 Photocatalysis: Synthesis, Characterizations, and Applications. Transactions of Tianjin University, 2022, 28, 33-52.	6.4	40
2	Main Descriptors To Correlate Structures with the Performances of Electrocatalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	25
3	Heterostructure of Ta3N5 nanorods and CaTaO2N nanosheets fabricated using a precursor template to boost water splitting under visible light. Journal of Energy Chemistry, 2022, 67, 27-33.	12.9	14
4	Main Descriptors To Correlate Structures with the Performances of Electrocatalysts. Angewandte Chemie, 2022, 134, .	2.0	5
5	Alkali-mediated dissolution-recrystallization strategy for in situ construction of a BiVO4/Bi25VO40 heterojunction with promoted interfacial charge transfer: Formation mechanism and photocatalytic tetracycline degradation studies. Chemical Engineering Journal, 2022, 431, 134181.	12.7	17
6	Synthesis of a novel nitrogen-doped K2Ti6O13 nanorod with visible-light-driven water splitting performance promoted by fabrication of 1D/2D heterostructure. Applied Surface Science, 2022, 581, 152345.	6.1	3
7	Unraveling of cocatalysts photodeposited selectively on facets of BiVO4 to boost solar water splitting. Nature Communications, 2022, 13, 484.	12.8	156
8	Water-Stable Nickel Metalâ€“Organic Framework Nanobelts for Cocatalyst-Free Photocatalytic Water Splitting to Produce Hydrogen. Journal of the American Chemical Society, 2022, 144, 2747-2754.	13.7	109
9	Understanding the morphology evolution of 1D BiVO₄ nanoarrays from nanorods to nanocones with enhanced photocatalytic performance. CrystEngComm, 2022, 24, 3297-3306.	2.6	6
10	Electronic Engineering of ABO₃ Perovskite Metal Oxides Based on d⁰ Electronicâ€Configuration Metallic Ions toward Photocatalytic Water Splitting under Visible Light. Small Structures, 2022, 3, .	12.0	12
11	Defect Management of SrNbO₂N through Zn Modification for Promoted Photocatalytic Water Oxidation. Energy & Fuels, 2022, 36, 11477-11484.	5.1	6
12	Strategies and Methods of Modulating Nitrogen-Incorporated Oxide Photocatalysts for Promoted Water Splitting. Accounts of Materials Research, 2022, 3, 449-460.	11.7	20
13	Tip-induced directional charge separation on one-dimensional BiVO4 nanocones for asymmetric light absorption. Journal of Energy Chemistry, 2022, 72, 326-332.	12.9	4
14	Long-lived excited states of platinum(<scp>ii</scp>)-porphyrins for highly efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 13402-13409.	10.3	12
15	Synthesis of Nickel Nitrideâ€Based 1D/0D Heterostructure via a Morphologyâ€Inherited Nitridation Strategy for Efficient Electrocatalytic Hydrogen Evolution. Small, 2022, 18, .	10.0	13
16	Homogeneous nitrogen-doped (111)-type layered Sr5Nb4O15â^'xNx as a visible-light-responsive photocatalyst for water oxidation. Nano Research, 2022, 15, 9976-9984.	10.4	8
17	Long-Lived Internal Charge-Separated State in Two-Dimensional Metalâ€“Organic Frameworks Improving Photocatalytic Performance. ACS Energy Letters, 2022, 7, 2323-2330.	17.4	24
18	Photocatalytic Water Splitting for Hydrogen Production^{â€»}. Acta Chimica Sinica, 2022, 80, 827.	1.4	6

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19	Heterostructured MOFs photocatalysts for water splitting to produce hydrogen. Journal of Energy Chemistry, 2021, 58, 508-522.	12.9	58
20	Metal-seed assistant photodeposition of platinum over Ta3N5 photocatalyst for promoted solar hydrogen production under visible light. Journal of Energy Chemistry, 2021, 55, 444-448.	12.9	27
21	Fluxâ€Assisted Synthesis of Prismâ€like Octahedral Ta₃N₅ Singleâ€Crystals with Controllable Facets for Promoted Photocatalytic H₂ Evolution. Solar Rrl, 2021, 5, 2000574.	5.8	10
22	Electrochemical synthesis of ammonia: Progress and challenges. Materials Today Physics, 2021, 16, 100310.	6.0	50
23	Water-Stable Cobalt-Based MOF for Water Oxidation in Neutral Aqueous Solution: A Case of Mimicking the Photosystem II. Inorganic Chemistry, 2021, 60, 1790-1796.	4.0	8
24	Band gap engineering of metal-organic frameworks for solar fuel productions. Coordination Chemistry Reviews, 2021, 435, 213785.	18.8	57
25	Synthesis of a Visibleâ€Lightâ€Responsive Perovskite SmTiO₂N Bifunctional Photocatalyst via an Evaporationâ€Assisted Layeredâ€Precursor Strategy. Advanced Materials, 2021, 33, e2101883.	21.0	14
26	Nanostructure Engineering and Modulation of (Oxy)Nitrides for Application in Visibleâ€Lightâ€Driven Water Splitting. Advanced Materials, 2021, 33, e2004697.	21.0	55
27	Development of Sn2+-based oxyfluoride photocatalyst with visible light response of ca. 650Ânm via strengthened hybridization of Sn 5s and O 2p orbitals. Journal of Energy Chemistry, 2021, 63, 385-390.	12.9	9
28	Application of Xâ€Ray Absorption Spectroscopy in Electrocatalytic Water Splitting and CO₂ Reduction. Small Science, 2021, 1, 2100023.	9.9	16
29	Synthesis of perovskite BaTaO2N with low defect by Zn doping for boosted photocatalytic water reduction. Journal of Energy Chemistry, 2021, 63, 358-363.	12.9	13
30	Engineering Efficient Nilr_x/CNT Hybrid Nanostructures for pH-Universal Oxygen Evolution. Journal of Physical Chemistry C, 2021, 125, 26003-26012.	3.1	6
31	Investigation on the Influence of Sc Ions Doping on the Structure and Performance of Ta 3 N 5 Photocatalyst for Water Oxidation under Visible Light Irradiation. Solar Rrl, 2020, 4, 1900445.	5.8	13
32	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. Science China Chemistry, 2020, 63, 1756-1760.	8.2	14
33	Overall water splitting over conjugated polymer photocatalysts with crystal facets modulated. Science China Chemistry, 2020, 63, 1582-1583.	8.2	5
34	Reversed configuration of photocatalyst to exhibit improved properties of basic processes compared to conventional one. Science China Chemistry, 2020, 63, 771-776.	8.2	4
35	Artificial Photosynthesis near the Biological Limit. Joule, 2020, 4, 1364-1366.	24.0	5
36	Unexpectedly selective hydrogenation of phenylacetylene to styrene on titania supported platinum photocatalyst under 385 nm monochromatic light irradiation. Chinese Journal of Catalysis, 2020, 41, 598-603.	14.0	17

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37	Development of a bismuth-based metal-organic framework for photocatalytic hydrogen production. Chinese Journal of Catalysis, 2019, 40, 1339-1344.	14.0	49
38	Heterostructure of 1D Ta₃N₅ Nanorod/BaTaO₂N Nanoparticle Fabricated by a Oneâ€Step Ammonia Thermal Route for Remarkably Promoted Solar Hydrogen Production. Advanced Materials, 2019, 31, e1808185.	21.0	115
39	One-pot synthesis of BaMg1/3Ta2/3O3-xNy/Ta3N5 heterostructures as H2-evolving photocatalysts for construction of visible-light-driven Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2019, 241, 1-7.	20.2	51
40	Development of Mixedâ€Anion Photocatalysts with Wide Visibleâ€Light Absorption Bands for Solar Water Splitting. ChemSusChem, 2019, 12, 1872-1888.	6.8	36
41	A hydrated amorphous iron oxide nanoparticle as active water oxidation catalyst. Chinese Journal of Catalysis, 2019, 40, 38-42.	14.0	14
42	Using Pd as a Cocatalyst on GaNâ€“ZnO Solid Solution for Visible-Light-Driven Overall Water Splitting. Catalysis Letters, 2018, 148, 933-939.	2.6	26
43	Inhibiting competing reactions of iodate/iodide redox mediators by surface modification of photocatalysts to enable Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2018, 224, 579-585.	20.2	33
44	Species, engineering and characterizations of defects in TiO 2 -based photocatalyst. Chinese Chemical Letters, 2018, 29, 671-680.	9.0	67
45	Redox-Based Visible-Light-Driven Z-Scheme Overall Water Splitting with Apparent Quantum Efficiency Exceeding 10%. Joule, 2018, 2, 2393-2402.	24.0	121
46	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. Joule, 2018, 2, 2260-2288.	24.0	146
47	Water oxidation on a mononuclear manganese heterogeneous catalyst. Nature Catalysis, 2018, 1, 870-877.	34.4	244
48	Development of Novel Perovskiteâ€Like Oxide Photocatalyst LiCuTa₃O₉ with Dual Functions of Water Reduction and Oxidation under Visible Light Irradiation. Advanced Energy Materials, 2018, 8, 1801660.	19.5	38
49	Visibleâ€Lightâ€Responsive 2D Cadmiumâ€“Organic Framework Single Crystals with Dual Functions of Water Reduction and Oxidation. Advanced Materials, 2018, 30, e1803401.	21.0	157
50	Energy Analysis of Cascade Heating with High Back-Pressure Large-Scale Steam Turbine. Energies, 2018, 11, 119.	3.1	21
51	Amorphous Cobalt Oxide Nanoparticles as Active Waterâ€Oxidation Catalysts. ChemCatChem, 2017, 9, 3641-3645.	3.7	34
52	Synthesis of BaTaO₂N oxynitride from Ba-rich oxide precursor for construction of visible-light-driven Z-scheme overall water splitting. Dalton Transactions, 2017, 46, 10707-10713.	3.3	45
53	Synthesis and Demonstration of Subnanometric Iridium Oxide as Highly Efficient and Robust Water Oxidation Catalyst. ACS Catalysis, 2017, 7, 5983-5986.	11.2	100
54	A wide visible light driven complex perovskite Ba(Mg_{1/3}Ta_{2/3})O_{3â^'x}N_y photocatalyst for water oxidation and reduction. Journal of Materials Chemistry A, 2017, 5, 18870-18877.	10.3	20

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55	Scalable Low-Band-Gap Sb₂Se₃ Thin-Film Photocathodes for Efficient Visibleâ€“Near-Infrared Solar Hydrogen Evolution. ACS Nano, 2017, 11, 12753-12763.	14.6	127
56	CoO_x nanoparticle anchored on sulfonated-graphite as efficient water oxidation catalyst. Chemical Science, 2017, 8, 6111-6116.	7.4	59
57	Achievement of visible-light-driven Z-scheme overall water splitting using barium-modified Ta₃N₅as a H₂-evolving photocatalyst. Chemical Science, 2017, 8, 437-443.	7.4	110
58	Magnesia interface nanolayer modification of Pt/Ta3N5 for promoted photocatalytic hydrogen production under visible light irradiation. Journal of Catalysis, 2016, 339, 77-83.	6.2	62
59	Fabrication of TiO2/C3N4 heterostructure for enhanced photocatalytic Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2016, 191, 130-137.	20.2	344
60	An artificial photosynthetic system containing an inorganic semiconductor and a molecular catalyst for photocatalytic water oxidation. Journal of Catalysis, 2016, 338, 168-173.	6.2	66
61	Sub-2 nm cobalt oxide cluster catalyst supported on alumina for efficient water oxidation. Applied Catalysis A: General, 2016, 521, 154-159.	4.3	5
62	Semiconductor-Based Photocatalytic Water Splitting. Lecture Notes in Energy, 2016, , 299-317.	0.3	2
63	Efficient Visibleâ€Lightâ€Driven Zâ€Scheme Overall Water Splitting Using a MgTa₂O_{6â^’x}N_yâ€‰/TaON Heterostructure Photocatalyst for H₂ Evolution. Angewandte Chemie - International Edition, 2015, 54, 8498-8501.	13.8	252
64	Interface Engineering of a CoO_x/Ta₃N₅ Photocatalyst for Unprecedented Water Oxidation Performance under Visibleâ€Lightâ€Irradiation. Angewandte Chemie, 2015, 127, 3090-3094.	2.0	48
65	Interface Engineering of a CoO_x/Ta₃N₅ Photocatalyst for Unprecedented Water Oxidation Performance under Visibleâ€Lightâ€Irradiation. Angewandte Chemie - International Edition, 2015, 54, 3047-3051.	13.8	254
66	Synergetic Effect of Conjugated Ni(OH)₂/IrO₂ Cocatalyst on Titanium-Doped Hematite Photoanode for Solar Water Splitting. Journal of Physical Chemistry C, 2015, 119, 19607-19612.	3.1	167
67	Selective photocatalytic conversion of glycerol to hydroxyacetaldehyde in aqueous solution on facet tuned TiO₂-based catalysts. Chemical Communications, 2014, 50, 165-167.	4.1	83
68	Highly efficient photocatalysts constructed by rational assembly of dual-cocatalysts separately on different facets of BiVO₄. Energy and Environmental Science, 2014, 7, 1369-1376.	30.8	491
69	Synergetic effect of dual cocatalysts in photocatalytic H₂production on Pdâ€“IrO_x/TiO₂: a new insight into dual cocatalyst location. Physical Chemistry Chemical Physics, 2014, 16, 17734.	2.8	51
70	Effect of post-treatments on the photocatalytic activity of Sm2Ti2S2O5 for the hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2014, 16, 12051.	2.8	53
71	A wide visible-light-responsive tunneled MgTa₂O_{6â^’x}N_xphotocatalyst for water oxidation and reduction. Chemical Communications, 2014, 50, 14415-14417.	4.1	75
72	Recent progress on photocatalysts with wide visible light range absorption for heterogeneous water splitting. Chinese Journal of Catalysis, 2014, 35, 1431-1432.	14.0	13

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73	A Tantalum Nitride Photoanode Modified with a Holeâ€Storage Layer for Highly Stable Solar Water Splitting. Angewandte Chemie - International Edition, 2014, 53, 7295-7299.	13.8	354
74	Enhancement of visible-light-driven O2 evolution from water oxidation on WO3 treated with hydrogen. Journal of Catalysis, 2013, 307, 148-152.	6.2	118
75	Spatial separation of photogenerated electrons and holes among {010} and {110} crystal facets of BiVO4. Nature Communications, 2013, 4, 1432.	12.8	1,458
76	Nitrogen-doped layered oxide Sr5Ta4O15â^'xNx for water reduction and oxidation under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 5651.	10.3	89
77	Composite Sr2TiO4/SrTiO3(La,Cr) heterojunction based photocatalyst for hydrogen production under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 7905.	10.3	114
78	Sulfurization-Assisted Cobalt Deposition on Sm₂Ti₂S₂O₅ Photocatalyst for Water Oxidation under Visible Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 376-382.	3.1	40
79	Semiconductor monolayer assemblies with oriented crystal faces. CrystEngComm, 2012, 14, 59-62.	2.6	4
80	Cobalt-Modified Porous Single-Crystalline LaTiO₂N for Highly Efficient Water Oxidation under Visible Light. Journal of the American Chemical Society, 2012, 134, 8348-8351.	13.7	382
81	Investigation of cocatalysts on silver-modified Sm2Ti2S2O5 photocatalyst for water reduction and oxidation under visible light irradiation. Catalysis Today, 2012, 185, 253-258.	4.4	21
82	Spontaneous Phase and Morphology Transformations of Anodized Titania Nanotubes Induced by Water at Room Temperature. Nano Letters, 2011, 11, 3649-3655.	9.1	188
83	Improvement of the photocatalytic hydrogen evolution activity of Sm2Ti2S2O5 under visible light by metal ion additives. Journal of Catalysis, 2011, 280, 1-7.	6.2	31
84	Physico-chemical characterization of nitrided mesoporous silicon MCM-41. Microporous and Mesoporous Materials, 2010, 135, 2-8.	4.4	14
85	Modification of Sm<inf>2</inf>Ti<inf>2</inf>S<inf>2</inf>O<inf>5</inf> with two cocatalysts for remarkably enhanced hydrogen production from water using visible light. , 2010, , .		0
86	Modification of oxysulfides with two nanoparticulate cocatalysts to achieve enhanced hydrogen production from water with visible light. Chemical Communications, 2010, 46, 7313.	4.1	46
87	Insight into the structure and localization of the titania overlayer in TiO2-coated SBA-15 materials. New Journal of Chemistry, 2010, 34, 508.	2.8	31
88	Synthesis and Characterization of N-doped TiO2 Nanowires with Visible Light Response. Catalysis Letters, 2009, 129, 507-512.	2.6	31
89	Size-Controlled Synthesis of Magnetite (Fe₃O₄) Nanoparticles Coated with Glucose and Gluconic Acid from a Single Fe(III) Precursor by a Sucrose Bifunctional Hydrothermal Method. Journal of Physical Chemistry C, 2009, 113, 16002-16008.	3.1	227
90	Density Functional Theory Study of Nitridation of ZSM-5 Zeolite. Chinese Journal of Catalysis, 2008, 29, 203-205.	14.0	1

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91	Influences of Mesoporous Structure on the NO+H2+O2 Low Temperature Reaction over Pt/Si-MCM-41 Catalyst. Acta Physico-chimica Sinica, 2008, 24, 369-374.	0.6	4
92	Ir/ZSM-5/cordierite monolith for catalytic NOx reduction from automobile exhaust. Catalysis Communications, 2008, 9, 409-415.	3.3	12
93	NO selective reduction by hydrogen on potassium titanate supported palladium catalyst. Catalysis Communications, 2008, 9, 1827-1832.	3.3	51
94	Î²-Cyclodextrin-Assisted Synthesis of Superparamagnetic Magnetite Nanoparticles from a Single Fe(III) Precursor. Journal of Physical Chemistry C, 2008, 112, 17148-17155.	3.1	46
95	Size-Dependent Hydrogenation Selectivity of Nitrate on Pdâ^'Cu/TiO₂ Catalysts. Journal of Physical Chemistry C, 2008, 112, 7665-7671.	3.1	72
96	Nitrided BaO-MCM-41 as a new mesoporous basic material. Studies in Surface Science and Catalysis, 2007, 165, 91-94.	1.5	0
97	Unexpected Selective Photocatalytic Reduction of Nitrite to Nitrogen on Silver-Doped Titanium Dioxide. Journal of Physical Chemistry C, 2007, 111, 3756-3761.	3.1	98
98	Facile Postsynthesis of Visible-Light-Sensitive Titanium Dioxide/Mesoporous SBA-15. Chemistry of Materials, 2007, 19, 3286-3293.	6.7	63
99	Selective catalytic reduction of NO by propane in excess oxygen over IrCu-ZSM-5 catalyst. Catalysis Communications, 2007, 8, 583-588.	3.3	42
100	NO SCR with propane and propene on Co-based alumina catalysts prepared by co-precipitation. Applied Catalysis B: Environmental, 2007, 73, 209-219.	20.2	59
101	Synthesis of Anatase TiO2 Nanoparticles with Î²-Cyclodextrin as a Supramolecular Shell. Chemistry - an Asian Journal, 2006, 1, 664-668.	3.3	23
102	Selective catalytic reduction of nitric oxide with propane over Ni-Al2O3: effect of Ni loading. Reaction Kinetics and Catalysis Letters, 2006, 89, 81-87.	0.6	11
103	Para-selectivity of modified HZSM-5 zeolites by nitridation for ethylation of ethylbenzene with ethanol. Journal of Molecular Catalysis A, 2006, 248, 220-225.	4.8	34
104	Synthesis and characterization of a basic molecular sieve: Nitrogen-incorporated SAPO-34. Materials Letters, 2006, 60, 3141-3144.	2.6	18
105	High photocatalytic activity and selectivity for nitrogen in nitrate reduction on Ag/TiO catalyst with fine silver clusters. Journal of Catalysis, 2005, 232, 424-431.	6.2	236
106	Direct synthesis of zeolite coatings on cordierite supports by in situ hydrothermal method. Applied Catalysis A: General, 2005, 292, 312-321.	4.3	52
107	Selective Catalytic Reduction of Nitrogen Oxides from Exhaust of Lean Burn Engine over In-Situ Synthesized Cuâ^'ZSM-5/Cordierite. Environmental Science & Technology, 2005, 39, 2841-2847.	10.0	38
108	Photocatalytic reduction of nitrate ion in drinking water by using metal-loaded MgTiO3-TiO2 composite semiconductor catalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 585-590.	3.9	89

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109	Titania-supported bimetallic catalysts for photocatalytic reduction of nitrate. Catalysis Today, 2004, 90, 331-336.	4.4	116
110	Catalytic reduction of nitrite ions in drinking water over Pdâ€“Cu/TiO2 bimetallic catalyst. Catalysis Today, 2004, 93-95, 333-339.	4.4	51
111	Simple and low-cost preparation method for highly dispersed Pd/TiO2 catalysts. Catalysis Today, 2004, 93-95, 645-650.	4.4	41
112	Synthesis of Titania-Supported Platinum Catalyst:Â The Effect of pH on Morphology Control and Valence State during Photodeposition. Langmuir, 2004, 20, 9329-9334.	3.5	123
113	Titania-Supported Pdâ€“Cu Bimetallic Catalyst for the Reduction of Nitrite Ions in Drinking Water. Catalysis Letters, 2003, 91, 25-30.	2.6	14
114	Titania supported Pd-Cu bimetallic catalyst for the reduction of nitrate in drinking water. Applied Catalysis B: Environmental, 2003, 46, 341-351.	20.2	169
115	Control of Morphology of Silver Clusters Coated on Titanium Dioxide during Photocatalysis. Langmuir, 2003, 19, 8230-8234.	3.5	88
116	Dualâ€Modified Hollow Spherical Shell MoS 2 @TiO 2 /TiN Composites for Photocatalytic Hydrogen Production. Energy Technology, 0, , 2100265.	3.8	2