

Shixiong Min

List of Publications by Year in descending order

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papers

5,621
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101543

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#	ARTICLE	IF	CITATIONS
1	Carbonized wood membrane decorated with AuPd alloy nanoparticles as an efficient self-supported electrode for electrocatalytic CO ₂ reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 312-322.	9.4	9
2	Ultrahigh real capacitance aqueous supercapacitors enabled by soft biomass-derived porous carbon membrane. <i>International Journal of Energy Research</i> , 2022, 46, 4781-4793.	4.5	10
3	Interfacial modification of Zn foil electrode with cationic surfactants enables efficient and selective CO production from CO ₂ electroreduction. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2149-2154.	4.9	5
4	Simultaneous hydrogen production with the selective oxidation of benzyl alcohol to benzaldehyde by a noble-metal-free photocatalyst VC/CdS nanowires. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1165-1175.	14.0	190
5	A Mn single atom catalyst with Mn ²⁺ sites integrated into carbon nanosheets for efficient electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10892-10901.	10.3	28
6	Ni single atoms supported on hierarchically porous carbonized wood with highly active Ni ⁴⁺ sites as a self-supported electrode for superior CO ₂ electroreduction. <i>Nanoscale</i> , 2022, 14, 10003-10008.	5.6	16
7	Ni ₂ P nanowire arrays grown on Ni foam as an efficient monolithic cocatalyst for visible light dye-sensitized H ₂ evolution. <i>Dalton Transactions</i> , 2022, 51, 11029-11039.	3.3	2
8	Conductive polyaniline-mediated efficient electron transfer in Z-scheme photocatalysts for enhanced overall water splitting. <i>Chemical Communications</i> , 2021, 57, 663-666.	4.1	3
9	A photocatalyst foam for superior visible-light photocatalytic hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4904-4912.	4.9	4
10	MAPb ₃ microcrystals integrated with Ti ₃ C ₂ T _x MXene nanosheets for efficient visible-light photocatalytic H ₂ evolution. <i>Chemical Communications</i> , 2021, 57, 7774-7777.	4.1	11
11	An all-inorganic quasi-homogenous polyoxometalate/[Mo ₃ S ₁₃] ²⁺ system for efficient and stable photocatalytic H ₂ evolution. <i>Chemical Communications</i> , 2021, 57, 1121-1124.	4.1	11
12	Palladium Nanoparticles Supported on Basswood-Derived Porous Carbon Membrane as Free-Standing Cathodes for Efficient pH-Universal Electrocatalytic H ₂ Evolution. <i>Electrocatalysis</i> , 2021, 12, 340-349.	3.0	5
13	Recycling decoration wastes toward a high-performance porous carbon membrane electrode for supercapacitive energy storage devices. <i>New Journal of Chemistry</i> , 2021, 46, 136-147.	2.8	5
14	Activating atomically dispersed Co ²⁺ /N sites on g-C ₃ N ₄ nanosheets <i>via</i> incorporating sulfur enables efficient visible light H ₂ evolution. <i>Sustainable Energy and Fuels</i> , 2021, 6, 170-178.	4.9	4
15	Coupling of MAPb ₃ microcrystals with conductive polyaniline for efficient visible-light-driven H ₂ evolution. <i>Sustainable Energy and Fuels</i> , 2021, 6, 76-80.	4.9	1
16	Layered metallic vanadium diboride as an active cocatalyst for efficient dye-sensitized photocatalytic hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2020, 4, 116-120.	4.9	17
17	Confining Mo-activated Co _x active sites within MCM-41 for highly efficient dye-sensitized photocatalytic H ₂ evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 112-121.	9.4	12
18	Vapor ammonization strategy towards surface-reconstructed and N-modified three-dimensional Cu foam electrocatalyst for efficient alkaline hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2808-2817.	7.1	6

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19	Enhanced photocatalytic hydrogen evolution on TiO ₂ employing vanadium carbide as an efficient and stable cocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1878-1889.	7.1	23
20	Polyaniline-filled carbonized wood membrane as an advanced self-supported electrode for superior pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2020, 359, 136961.	5.2	26
21	Vanadium diboride as an efficient cocatalyst coupled with CdS for enhanced visible light photocatalytic H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19017-19026.	7.1	28
22	CdS/Metallic Mo Hybrid Photocatalysts with Highly Active Interfacial Mo-O-S Active Sites for Efficient Photocatalytic Hydrogen Evolution under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18911-18919.	3.1	12
23	Interfacing CdS particles on Ni foam as a three-dimensional monolithic photocatalyst for efficient visible-light-driven H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31678-31688.	7.1	23
24	Immobilizing cobalt phthalocyanine into a porous carbonized wood membrane as a self-supported heterogenous electrode for selective and stable CO ₂ electroreduction in water. <i>Dalton Transactions</i> , 2020, 49, 15607-15611.	3.3	17
25	<i>In situ</i> embedding of Mo ₂ C/MoO _x nanoparticles within a carbonized wood membrane as a self-supported pH-compatible cathode for efficient electrocatalytic H ₂ evolution. <i>Dalton Transactions</i> , 2020, 49, 8557-8565.	3.3	16
26	Efficient electrocatalytic CO ₂ reduction to CO with high selectivity using a N-doped carbonized wood membrane. <i>New Journal of Chemistry</i> , 2020, 44, 6125-6129.	2.8	16
27	High-Performance Aqueous Supercapacitors Based on Biomass-Derived Multiheteroatom Self-Doped Porous Carbon Membranes. <i>Energy Technology</i> , 2020, 8, 2000391.	3.8	10
28	A noble-metal-free MoS ₂ nanosheet-coupled MAPbI ₃ photocatalyst for efficient and stable visible-light-driven hydrogen evolution. <i>Chemical Communications</i> , 2020, 56, 3281-3284.	4.1	43
29	Biomass-derived self-supported porous carbon membrane embedded with Co nanoparticles as an advanced electrocatalyst for efficient and robust hydrogen evolution reaction. <i>Renewable Energy</i> , 2020, 155, 447-455.	8.9	26
30	Efficient CO ₂ electroreduction to CO at low overpotentials using a surface-reconstructed and N-coordinated Zn electrocatalyst. <i>Dalton Transactions</i> , 2020, 49, 5434-5439.	3.3	17
31	Self-Supported CoP Nanoparticle-Embedded Wood-Derived Porous Carbon Membrane for Efficient H ₂ Evolution in Both Acidic and Basic Solutions. <i>ChemCatChem</i> , 2020, 12, 3929-3936.	3.7	17
32	Ti ₃ C ₂ T _x MXene nanosheet-confined Pt nanoparticles efficiently catalyze dye-sensitized photocatalytic hydrogen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 10631-10634.	4.1	40
33	Integrating noble-metal-free metallic vanadium carbide cocatalyst with CdS for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118029.	20.2	124
34	A wood-derived hierarchically porous monolithic carbon matrix embedded with Co nanoparticles as an advanced electrocatalyst for water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2753-2762.	4.9	25
35	Dye-sensitized black phosphorus nanosheets decorated with Pt cocatalyst for highly efficient photocatalytic hydrogen evolution under visible light. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21873-21881.	7.1	20
36	Metallic Vanadium Nitride as a Noble-Metal-Free Cocatalyst Efficiently Catalyzes Photocatalytic Hydrogen Production with CdS Nanoparticles under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28640-28650.	3.1	34

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37	Vanadium carbide: an efficient, robust, and versatile cocatalyst for photocatalytic hydrogen evolution under visible light. <i>Chemical Communications</i> , 2019, 55, 6870-6873.	4.1	38
38	Light-induced confined growth of amorphous Co doped MoS _x nanodots on TiO ₂ nanoparticles for efficient and stable in situ photocatalytic H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8133-8143.	7.1	24
39	Accelerating photosensitized H ₂ evolution over in situ grown amorphous MoS _x catalyst employing TiO ₂ as an efficient catalyst loading matrix and electron transfer relay. <i>Renewable Energy</i> , 2019, 138, 562-572.	8.9	19
40	In situ growth and activation of an amorphous MoS _x catalyst on Co-containing metal-organic framework nanosheets for highly efficient dye-sensitized H ₂ evolution. <i>New Journal of Chemistry</i> , 2019, 43, 4152-4159.	2.8	20
41	CoAl-layered double hydroxide nanosheets as an active matrix to anchor an amorphous MoS _x catalyst for efficient visible light hydrogen evolution. <i>Chemical Communications</i> , 2018, 54, 3243-3246.	4.1	31
42	Electrochemical growth of MoS _x on Cu foam: A highly active and robust three-dimensional cathode for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4978-4986.	7.1	20
43	Synergistically enhanced photocatalytic hydrogen evolution performance of ZnCdS by co-loading graphene quantum dots and PdS dual cocatalysts under visible light. <i>Journal of Solid State Chemistry</i> , 2018, 260, 23-30.	2.9	27
44	Effective hydrothermal grafting of Eosin Y onto TiO ₂ nanoparticles towards stable photocatalysts for efficient visible-light-driven photocatalytic H ₂ evolution. <i>New Journal of Chemistry</i> , 2018, 42, 6631-6635.	2.8	14
45	Novel Strategy of Defect-Induced Graphite Nitride Carbon Preparation and Photocatalytic Performance. <i>Catalysis Letters</i> , 2018, 148, 1296-1308.	2.6	16
46	Thiomolybdate [Mo ₃ S ₁₃] ²⁺ nanocluster: a molecular mimic of MoS ₂ active sites for highly efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2018, 54, 603-606.	4.1	53
47	Structural analysis of transient reaction intermediate in formic acid dehydrogenation catalysis using two-dimensional IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12395-12400.	7.1	17
48	Cobalt-Activated Amorphous MoS _x Nanodots Grown In Situ on Natural Attapulgite Nanofibers for Efficient Visible-Light-Driven Dye-Sensitized H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2018, 1, 6493-6501.	5.0	20
49	High-performance Förster resonance energy transfer-based dye-sensitized photocatalytic H ₂ evolution with graphene quantum dots as the homogeneous energy donor. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1147-1152.	2.9	7
50	Highly active dye-sensitized photocatalytic H ₂ evolution catalyzed by a single-atom Pt cocatalyst anchored onto g-C ₃ N ₄ nanosheets under long-wavelength visible light irradiation. <i>New Journal of Chemistry</i> , 2018, 42, 14083-14086.	2.8	38
51	Quasi-homogenous dye-sensitized photocatalytic H ₂ evolution catalyzed by in-situ grown cobalt-promoted MoS _x catalyst coupled with graphene quantum dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 226-235.	3.9	7
52	Symmetrical synergy of hybrid Co ₉ S ₈ -MoS _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017, 32, 470-478.	16.0	116
53	In-situ photochemical fabrication of transition metal-promoted amorphous molybdenum sulfide catalysts for enhanced photosensitized hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11118-11129.	7.1	40
54	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7847-7852.	13.8	252

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55	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO ₂ reduction. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 708-712.	5.2	8
56	Strongly coupled CdS/graphene quantum dots nanohybrids for highly efficient photocatalytic hydrogen evolution: Unraveling the essential roles of graphene quantum dots. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 59-69.	20.2	199
57	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie</i> , 2017, 129, 7955-7960.	2.0	78
58	Boosting the catalytic performance of MoS ₂ cocatalysts over CdS nanoparticles for photocatalytic H ₂ evolution by Co doping via a facile photochemical route. <i>Applied Surface Science</i> , 2017, 420, 456-464.	6.1	78
59	Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. <i>ACS Nano</i> , 2017, 11, 4358-4364.	14.6	199
60	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017, 8, 13592.	12.8	142
61	Dehydrogenation of Formic Acid Catalyzed by a Ruthenium Complex with an N,N'-Diimine Ligand. <i>Inorganic Chemistry</i> , 2017, 56, 438-445.	4.0	107
62	Spatially isolated palladium in porous organic polymers by direct knitting for versatile organic transformations. <i>Journal of Catalysis</i> , 2017, 355, 101-109.	6.2	40
63	Amorphous WS ₂ as an efficient cocatalyst grown on CdS nanoparticles via photochemical deposition for enhanced visible-light-driven hydrogen evolution. <i>Molecular Catalysis</i> , 2017, 440, 190-198.	2.0	26
64	Facile one-step hydrothermal synthesis toward strongly coupled TiO ₂ /graphene quantum dots photocatalysts for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2017, 396, 1375-1382.	6.1	134
65	Selective Hydrogen Generation from Formic Acid with Well-Defined Complexes of Ruthenium and Phosphorus-Nitrogen Pincer Ligand. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1357-1360.	3.3	94
66	Electrocatalytic Reduction of Carbon Dioxide with a Well-Defined Pincer Ru Complex. <i>ChemPlusChem</i> , 2016, 81, 166-171.	2.8	21
67	Functionalization of TiO ₂ with graphene quantum dots for efficient photocatalytic hydrogen evolution. <i>Superlattices and Microstructures</i> , 2016, 94, 237-244.	3.1	77
68	Highly acid-durable carbon coated Co ₃ O ₄ nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , 2016, 25, 42-50.	16.0	187
69	Graphene-induced spatial charge separation for selective water splitting over TiO ₂ photocatalyst. <i>Catalysis Communications</i> , 2016, 80, 28-32.	3.3	22
70	Highly Active Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , 2016, 12, 5530-5537.	10.0	177
71	Low overpotential and high current CO ₂ reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , 2016, 27, 121-129.	16.0	100
72	Editors' Choice: Growth of Layered WS ₂ Electrocatalysts for Highly Efficient Hydrogen Production Reaction. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, Q3067-Q3071.	1.8	10

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73	Modulating photogenerated electron transfer with selectively exposed Co-Mo facets on a novel amorphous g-C ₃ N ₄ /CoxMo _{1-x} S ₂ photocatalyst. RSC Advances, 2016, 6, 23709-23717.	3.6	36
74	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. Nanoscale, 2015, 7, 10974-10981.	5.6	133
75	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. Nano Energy, 2015, 15, 634-641.	16.0	357
76	Behavior of borate complex anion on the stabilities and the hydrogen evolutions of Zn _x Co _{3-2x} O ₄ decorated graphene. Superlattices and Microstructures, 2015, 82, 599-611.	3.1	20
77	Slow magnetic relaxation in a carboxylate-bridged one dimensional dysprosium complex. Inorganic Chemistry Communication, 2015, 61, 132-135.	3.9	7
78	Efficient Photocatalytic Hydrogen Evolution over Platinum and Boron Co-doped TiO ₂ Photoatalysts. Medziagotyra, 2014, 20, .	0.2	1
79	Cu ₂ O nanoparticles decorated BiVO ₄ as an effective visible-light-driven p-n heterojunction photocatalyst for methylene blue degradation. Superlattices and Microstructures, 2014, 74, 294-307.	3.1	66
80	Robust Pt-Sn alloy decorated graphene nanohybrid cocatalyst for photocatalytic hydrogen evolution. Chemical Communications, 2014, 50, 9281-9283.	4.1	84
81	A novel amorphous CoSn _x O _y decorated graphene nanohybrid photocatalyst for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2014, 50, 5037-5039.	4.1	48
82	Dye-Sensitized NiS Catalyst Decorated on Graphene for Highly Efficient Reduction of Water to Hydrogen under Visible Light Irradiation. ACS Catalysis, 2014, 4, 2763-2769.	11.2	163
83	Dye-sensitized cobalt catalysts for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2014, 39, 4836-4844.	7.1	61
84	Promoted photoinduced charge separation and directional electron transfer over dispersible xanthene dyes sensitized graphene sheets for efficient solar H ₂ evolution. International Journal of Hydrogen Energy, 2013, 38, 2106-2116.	7.1	42
85	Sites for High Efficient Photocatalytic Hydrogen Evolution on a Limited-Layered MoS ₂ Cocatalyst Confined on Graphene Sheets-The Role of Graphene. Journal of Physical Chemistry C, 2012, 116, 25415-25424.	3.1	323
86	Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2012, 37, 10564-10574.	7.1	121
87	Enhanced Electron Transfer from the Excited Eosin Y to mpg-C ₃ N ₄ for Highly Efficient Hydrogen Evolution under 550 nm Irradiation. Journal of Physical Chemistry C, 2012, 116, 19644-19652.	3.1	284
88	Dye-Sensitized Reduced Graphene Oxide Photocatalysts for Highly Efficient Visible-Light-Driven Water Reduction. Journal of Physical Chemistry C, 2011, 115, 13938-13945.	3.1	265
89	Visible-light-induced photocatalytic degradation of methylene blue with polyaniline-sensitized composite photocatalysts. Superlattices and Microstructures, 2010, 48, 170-180.	3.1	140
90	Preparation of TiO ₂ /PS complex nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 458, 44-47.	5.6	10

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91	An investigation on synthesis and photocatalytic activity of polyaniline sensitized nanocrystalline TiO ₂ composites. <i>Journal of Materials Science</i> , 2007, 42, 9966-9972.	3.7	109
92	Synthesis and characterization of conductive polyaniline/TiO ₂ composite nanofibers. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 123-126.	0.4	26
93	Photocatalytic degradation of methylene blue on Fe ³⁺ -doped TiO ₂ nanoparticles under visible light irradiation. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 364-368.	0.4	11