# Shixiong Min

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 93<br>papers | 5,621<br>citations | 101543<br>36<br>h-index | 79698<br>73<br>g-index |
| 94<br>all docs | 94<br>docs citations | 94<br>times ranked | 7263<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. Nano Energy, 2015, 15, 634-641. | 16.0 | 357 |
| 2 | Sites for High Efficient Photocatalytic Hydrogen Evolution on a Limited-Layered MoS<sub>2</sub> Cocatalyst Confined on Graphene Sheetsâ€•The Role of Graphene. Journal of Physical Chemistry C, 2012, 116, 25415-25424. | 3.1 | 323 |
| 3 | Enhanced Electron Transfer from the Excited Eosin Y to mpg-C<sub>3</sub>N<sub>4</sub> for Highly Efficient Hydrogen Evolution under 550 nm Irradiation. Journal of Physical Chemistry C, 2012, 116, 19644-19652. | 3.1 | 284 |
| 4 | 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 |
| 5 | Efficient Electrocatalytic Reduction of CO<sub>2</sub> by Nitrogenâ€Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO<sub>2</sub> Refinery. Angewandte Chemie - International Edition, 2017, 56, 7847-7852. | 13.8 | 252 |
| 6 | Strongly coupled CdS/graphene quantum dots nanohybrids for highly efficient photocatalytic hydrogen evolution: Unraveling the essential roles of graphene quantum dots. Applied Catalysis B: Environmental, 2017, 216, 59-69. | 20.2 | 199 |
| 7 | Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. ACS Nano, 2017, 11, 4358-4364. | 14.6 | 199 |
| 8 | Simultaneous hydrogen production with the selective oxidation of benzyl alcohol to benzaldehyde by a noble-metal-free photocatalyst VC/CdS nanowires. Chinese Journal of Catalysis, 2022, 43, 1165-1175. | 14.0 | 190 |
| 9 | Highly acid-durable carbon coated Co3O4 nanoarrays as efficient oxygen evolution electrocatalysts. Nano Energy, 2016, 25, 42-50. | 16.0 | 187 |
| 10 | Highâ€Sulfurâ€Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. Small, 2016, 12, 5530-5537. | 10.0 | 177 |
| 11 | Dye-Sensitized NiS<sub>x</sub> 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 |
| 12 | Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. Nature Communications, 2017, 8, 13592. | 12.8 | 142 |
| 13 | Visible-light-induced photocatalytic degradation of methylene blue with polyaniline-sensitized composite photocatalysts. Superlattices and Microstructures, 2010, 48, 170-180. | 3.1 | 140 |
| 14 | Facile one-step hydrothermal synthesis toward strongly coupled TiO2/graphene quantum dots photocatalysts for efficient hydrogen evolution. Applied Surface Science, 2017, 396, 1375-1382. | 6.1 | 134 |
| 15 | 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 |
| 16 | Integrating noble-metal-free metallic vanadium carbide cocatalyst with CdS for efficient visible-light-driven photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2019, 259, 118029. | 20.2 | 124 |
| 17 | Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2012, 37, 10564-10574. | 7.1 | 121 |
| 18 | Symmetrical synergy of hybrid Co9S8-MoSx electrocatalysts for hydrogen evolution reaction. Nano Energy, 2017, 32, 470-478. | 16.0 | 116 |

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|---|---|---|---|
| 19 | An investigation on synthesis and photocatalytic activity of polyaniline sensitized nanocrystalline TiO2 composites. Journal of Materials Science, 2007, 42, 9966-9972. | 3.7 | 109 |
| 20 | Dehydrogenation of Formic Acid Catalyzed by a Ruthenium Complex with an N,Nâ€²-Diimine Ligand. Inorganic Chemistry, 2017, 56, 438-445. | 4.0 | 107 |
| 21 | Low overpotential and high current CO2 reduction with surface reconstructed Cu foam electrodes. Nano Energy, 2016, 27, 121-129. | 16.0 | 100 |
| 22 | Selective Hydrogen Generation from Formic Acid with Wellâ€Defined Complexes of Ruthenium and Phosphorusâ€“Nitrogen PN<sup>3</sup>â€Pincer Ligand. Chemistry - an Asian Journal, 2016, 11, 1357-1360. | 3.3 | 94 |
| 23 | Robust Ptâ€“Sn alloy decorated graphene nanohybrid cocatalyst for photocatalytic hydrogen evolution. Chemical Communications, 2014, 50, 9281-9283. | 4.1 | 84 |
| 24 | Efficient Electrocatalytic Reduction of CO<sub>2</sub> by Nitrogenâ€Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO<sub>2</sub> Refinery. Angewandte Chemie, 2017, 129, 7955-7960. | 2.0 | 78 |
| 25 | Boosting the catalytic performance of MoS x cocatalysts over CdS nanoparticles for photocatalytic H 2 evolution by Co doping via a facile photochemical route. Applied Surface Science, 2017, 420, 456-464. | 6.1 | 78 |
| 26 | Functionalization of TiO2 with graphene quantum dots for efficient photocatalytic hydrogen evolution. Superlattices and Microstructures, 2016, 94, 237-244. | 3.1 | 77 |
| 27 | Cu2O nanoparticles decorated BiVO4 as an effective visible-light-driven p-n heterojunction photocatalyst for methylene blue degradation. Superlattices and Microstructures, 2014, 74, 294-307. | 3.1 | 66 |
| 28 | Dye-sensitized cobalt catalysts for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2014, 39, 4836-4844. | 7.1 | 61 |
| 29 | Thiomolybdate [Mo<sub>3</sub>S<sub>13</sub>]<sup>2â^’</sup>nanocluster: a molecular mimic of MoS<sub>2</sub>active sites for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2018, 54, 603-606. | 4.1 | 53 |
| 30 | A novel amorphous CoSn<sub>x</sub>O<sub>y</sub> decorated graphene nanohybrid photocatalyst for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2014, 50, 5037-5039. | 4.1 | 48 |
| 31 | A noble-metal-free MoS<sub>2</sub> nanosheet-coupled MAPbI<sub>3</sub> photocatalyst for efficient and stable visible-light-driven hydrogen evolution. Chemical Communications, 2020, 56, 3281-3284. | 4.1 | 43 |
| 32 | Promoted photoinduced charge separation and directional electron transfer over dispersible xanthene dyes sensitized graphene sheets for efficient solar H2 evolution. International Journal of Hydrogen Energy, 2013, 38, 2106-2116. | 7.1 | 42 |
| 33 | In-situ photochemical fabrication of transition metal-promoted amorphous molybdenum sulfide catalysts for enhanced photosensitized hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 11118-11129. | 7.1 | 40 |
| 34 | Spatially isolated palladium in porous organic polymers by direct knitting for versatile organic transformations. Journal of Catalysis, 2017, 355, 101-109. | 6.2 | 40 |
| 35 | Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene nanosheet-confined Pt nanoparticles efficiently catalyze dye-sensitized photocatalytic hydrogen evolution reaction. Chemical Communications, 2019, 55, 10631-10634. | 4.1 | 40 |
| 36 | Highly active dye-sensitized photocatalytic H2 evolution catalyzed by a single-atom Pt cocatalyst anchored onto g-C3N4 nanosheets under long-wavelength visible light irradiation. New Journal of Chemistry, 2018, 42, 14083-14086. | 2.8 | 38 |

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|---|---|---|---|
| 37 | Vanadium carbide: an efficient, robust, and versatile cocatalyst for photocatalytic hydrogen evolution under visible light. Chemical Communications, 2019, 55, 6870-6873. | 4.1 | 38 |
| 38 | Modulating photogenerated electron transfer with selectively exposed Coâ€“Mo facets on a novel amorphous g-C3N4/CoxMo1â^'xS2 photocatalyst. RSC Advances, 2016, 6, 23709-23717. | 3.6 | 36 |
| 39 | Metallic Vanadium Nitride as a Noble-Metal-Free Cocatalyst Efficiently Catalyzes Photocatalytic Hydrogen Production with CdS Nanoparticles under Visible Light Irradiation. Journal of Physical Chemistry C, 2019, 123, 28640-28650. | 3.1 | 34 |
| 40 | CoAl-layered double hydroxide nanosheets as an active matrix to anchor an amorphous MoS<sub>x</sub> catalyst for efficient visible light hydrogen evolution. Chemical Communications, 2018, 54, 3243-3246. | 4.1 | 31 |
| 41 | Vanadium diboride as an efficient cocatalyst coupled with CdS for enhanced visible light photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2020, 45, 19017-19026. | 7.1 | 28 |
| 42 | A Mn single atom catalyst with Mnâ€“N<sub>2</sub>O<sub>2</sub> sites integrated into carbon nanosheets for efficient electrocatalytic CO<sub>2</sub> reduction. Journal of Materials Chemistry A, 2022, 10, 10892-10901. | 10.3 | 28 |
| 43 | Synergistically enhanced photocatalytic hydrogen evolution performance of ZnCdS by co-loading graphene quantum dots and PdS dual cocatalysts under visible light. Journal of Solid State Chemistry, 2018, 260, 23-30. | 2.9 | 27 |
| 44 | Synthesis and characterization of conductive polyaniline/TiO2 composite nanofibers. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 123-126. | 0.4 | 26 |
| 45 | Amorphous WS x as an efficient cocatalyst grown on CdS nanoparticles via photochemical deposition for enhanced visible-light-driven hydrogen evolution. Molecular Catalysis, 2017, 440, 190-198. | 2.0 | 26 |
| 46 | Polyaniline-filled carbonized wood membrane as an advanced self-supported electrode for superior pseudocapacitive energy storage. Electrochimica Acta, 2020, 359, 136961. | 5.2 | 26 |
| 47 | Biomass-derived self-supported porous carbon membrane embedded with Co nanoparticles as an advanced electrocatalyst for efficient and robust hydrogen evolution reaction. Renewable Energy, 2020, 155, 447-455. | 8.9 | 26 |
| 48 | A wood-derived hierarchically porous monolithic carbon matrix embedded with Co nanoparticles as an advanced electrocatalyst for water splitting. Sustainable Energy and Fuels, 2019, 3, 2753-2762. | 4.9 | 25 |
| 49 | Light-induced confined growth of amorphous Co doped MoSx nanodots on TiO2 nanoparticles for efficient and stable in situ photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2019, 44, 8133-8143. | 7.1 | 24 |
| 50 | Enhanced photocatalytic hydrogen evolution on TiO2 employing vanadium carbide as an efficient and stable cocatalyst. International Journal of Hydrogen Energy, 2020, 45, 1878-1889. | 7.1 | 23 |
| 51 | Interfacing CdS particles on Ni foam as a three-dimensional monolithic photocatalyst for efficient visible-light-driven H2 evolution. International Journal of Hydrogen Energy, 2020, 45, 31678-31688. | 7.1 | 23 |
| 52 | Graphene-induced spatial charge separation for selective water splitting over TiO2 photocatalyst. Catalysis Communications, 2016, 80, 28-32. | 3.3 | 22 |
| 53 | Electrocatalytic Reduction of Carbon Dioxide with a Wellâ€Ðefined PN<sup>3</sup>â^'Ru Pincer Complex. ChemPlusChem, 2016, 81, 166-171. | 2.8 | 21 |
| 54 | Behavior of borate complex anion on the stabilities and the hydrogen evolutions of ZnxCo3â^'xO4 decorated graphene. Superlattices and Microstructures, 2015, 82, 599-611. | 3.1 | 20 |

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|---|---|---|---|
| 55 | Electrochemical growth of MoSx on Cu foam: AÂhighly active and robust three-dimensional cathode for hydrogen evolution. International Journal of Hydrogen Energy, 2018, 43, 4978-4986. | 7.1 | 20 |
| 56 | Cobalt-Activated Amorphous MoS<sub>x</sub> Nanodots Grown In Situ on Natural Attapulgite Nanofibers for Efficient Visible-Light-Driven Dye-Sensitized H<sub>2</sub> Evolution. ACS Applied Nano Materials, 2018, 1, 6493-6501. | 5.0 | 20 |
| 57 | Dye-sensitized black phosphorus nanosheets decorated with Pt cocatalyst for highly efficient photocatalytic hydrogen evolution under visible light. International Journal of Hydrogen Energy, 2019, 44, 21873-21881. | 7.1 | 20 |
| 58 | In situ growth and activation of an amorphous MoS<sub>x</sub> catalyst on Co-containing metalâ€“organic framework nanosheets for highly efficient dye-sensitized H<sub>2</sub> evolution. New Journal of Chemistry, 2019, 43, 4152-4159. | 2.8 | 20 |
| 59 | Accelerating photosensitized H2 evolution over in situ grown amorphous MoSx catalyst employing TiO2 as an efficient catalyst loading matrix and electron transfer relay. Renewable Energy, 2019, 138, 562-572. | 8.9 | 19 |
| 60 | Structural analysis of transient reaction intermediate in formic acid dehydrogenation catalysis using two-dimensional IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12395-12400. | 7.1 | 17 |
| 61 | Layered metallic vanadium diboride as an active cocatalyst for efficient dye-sensitized photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 116-120. | 4.9 | 17 |
| 62 | Immobilizing cobalt phthalocyanine into a porous carbonized wood membrane as a self-supported heterogenous electrode for selective and stable CO<sub>2</sub> electroreduction in water. Dalton Transactions, 2020, 49, 15607-15611. | 3.3 | 17 |
| 63 | Efficient CO<sub>2</sub> electroreduction to CO at low overpotentials using a surface-reconstructed and N-coordinated Zn electrocatalyst. Dalton Transactions, 2020, 49, 5434-5439. | 3.3 | 17 |
| 64 | Selfâ€Supported CoP Nanoparticleâ€Embedded Woodâ€Derived Porous Carbon Membrane for Efficient H<sub>2</sub> Evolution in Both Acidic and Basic Solutions. ChemCatChem, 2020, 12, 3929-3936. | 3.7 | 17 |
| 65 | Novel Strategy of Defect-Induced Graphite Nitride Carbon Preparation and Photocatalytic Performance. Catalysis Letters, 2018, 148, 1296-1308. | 2.6 | 16 |
| 66 | In situ embedding of Mo<sub>2</sub>C/MoO<sub>3â^'x</sub> nanoparticles within a carbonized wood membrane as a self-supported pH-compatible cathode for efficient electrocatalytic H<sub>2</sub> evolution. Dalton Transactions, 2020, 49, 8557-8565. | 3.3 | 16 |
| 67 | Efficient electrocatalytic CO<sub>2</sub> reduction to CO with high selectivity using a N-doped carbonized wood membrane. New Journal of Chemistry, 2020, 44, 6125-6129. | 2.8 | 16 |
| 68 | Ni single atoms supported on hierarchically porous carbonized wood with highly active Niâ€“N<sub>4</sub>sites as a self-supported electrode for superior CO<sub>2</sub>electroreduction. Nanoscale, 2022, 14, 10003-10008. | 5.6 | 16 |
| 69 | Effective hydrothermal grafting of Eosin Y onto TiO2 nanoparticles towards stable photocatalysts for efficient visible-light-driven photocatalytic H2 evolution. New Journal of Chemistry, 2018, 42, 6631-6635. | 2.8 | 14 |
| 70 | Confining Mo-activated CoSx active sites within MCM-41 for highly efficient dye-sensitized photocatalytic H2 evolution. Journal of Colloid and Interface Science, 2020, 563, 112-121. | 9.4 | 12 |
| 71 | CdS/Metallic Mo Hybrid Photocatalysts with Highly Active Interfacial Moâ€“Oâ€“S Active Sites for Efficient Photocatalytic Hydrogen Evolution under Visible Light. Journal of Physical Chemistry C, 2020, 124, 18911-18919. | 3.1 | 12 |
| 72 | Photocatalytic degradation of methylene blue on Fe3+-doped TiO2 nanoparticles under visible light irradiation. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 364-368. | 0.4 | 11 |

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| 73 | MAPbI<sub>3</sub> microcrystals integrated with Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene nanosheets for efficient visible-light photocatalytic H<sub>2</sub> evolution. Chemical Communications, 2021, 57, 7774-7777. | 4.1 | 11 |
| 74 | An all-inorganic quasi-homogenous polyoxometalate/[Mo<sub>3</sub>S<sub>13</sub>]<sup>2â^'</sup> system for efficient and stable photocatalytic H<sub>2</sub> evolution. Chemical Communications, 2021, 57, 1121-1124. | 4.1 | 11 |
| 75 | Preparation of TiO2/PS complex nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 458, 44-47. | 5.6 | 10 |
| 76 | Editors' Choiceâ€"Growth of Layered WS<sub>2</sub>Electrocatalysts for Highly Efficient Hydrogen Production Reaction. ECS Journal of Solid State Science and Technology, 2016, 5, Q3067-Q3071. | 1.8 | 10 |
| 77 | Highâ€Performance Aqueous Supercapacitors Based on Biomassâ€Derived Multiheteroatom Selfâ€Doped Porous Carbon Membranes. Energy Technology, 2020, 8, 2000391. | 3.8 | 10 |
| 78 | <scp>Ultrahighâ€arealâ€capacitance</scp> aqueous supercapacitors enabled by soft <scp>biomassâ€derived</scp> porous carbon membrane. International Journal of Energy Research, 2022, 46, 4781-4793. | 4.5 | 10 |
| 79 | Carbonized wood membrane decorated with AuPd alloy nanoparticles as an efficient self-supported electrode for electrocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2022, 607, 312-322. | 9.4 | 9 |
| 80 | Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO2 reduction. Journal of Saudi Chemical Society, 2017, 21, 708-712. | 5.2 | 8 |
| 81 | Slow magnetic relaxation in a carboxylate-bridged one dimensional dysprosium complex. Inorganic Chemistry Communication, 2015, 61, 132-135. | 3.9 | 7 |
| 82 | High-performance FÃ¶rster resonance energy transfer-based dye-sensitized photocatalytic H2 evolution with graphene quantum dots as the homogeneous energy donor. Photochemical and Photobiological Sciences, 2018, 17, 1147-1152. | 2.9 | 7 |
| 83 | Quasi-homogenous dye-sensitized photocatalytic H2 evolution catalyzed by in-situ grown cobalt-promoted MoSx catalyst coupled with graphene quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 226-235. | 3.9 | 7 |
| 84 | Vapor ammonization strategy towards surface-reconstructed and N-modified three-dimensional Cu foam electrocatalyst for efficient alkaline hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 2808-2817. | 7.1 | 6 |
| 85 | Palladium Nanoparticles Supported on Basswood-Derived Porous Carbon Membrane as Free-Standing Cathodes for Efficient pH-Universal Electrocatalytic H2 Evolution. Electrocatalysis, 2021, 12, 340-349. | 3.0 | 5 |
| 86 | Recycling decoration wastes toward a high-performance porous carbon membrane electrode for supercapacitive energy storage devices. New Journal of Chemistry, 2021, 46, 136-147. | 2.8 | 5 |
| 87 | Interfacial modification of Zn foil electrode with cationic surfactants enables efficient and selective CO production from CO<sub>2</sub> electroreduction. Sustainable Energy and Fuels, 2022, 6, 2149-2154. | 4.9 | 5 |
| 88 | A photocatalyst foam for superior visible-light photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2021, 5, 4904-4912. | 4.9 | 4 |
| 89 | Activating atomically dispersed Coâ€"N/C sites on g-C<sub>3</sub>N<sub>4</sub> nanosheets via incorporating sulfur enables efficient visible light H<sub>2</sub> evolution. Sustainable Energy and Fuels, 2021, 6, 170-178. | 4.9 | 4 |
| 90 | Conductive polyaniline-mediated efficient electron transfer in Z-scheme photocatalysts for enhanced overall water splitting. Chemical Communications, 2021, 57, 663-666. | 4.1 | 3 |

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|---|---|---|---|
| 91 | Ni<sub>2</sub>P nanowire arrays grown on Ni foam as an efficient monolithic cocatalyst for visible light dye-sensitized H<sub>2</sub> evolution. Dalton Transactions, 2022, 51, 11029-11039. | 3.3 | 2 |
| 92 | Efficient Photocatalytic Hydrogen Evolution over Platinum and Boron Co-doped TiO2 Photoatalysts. Medziagotyra, 2014, 20, . | 0.2 | 1 |
| 93 | Coupling of MAPbI<sub>3</sub> microcrystals with conductive polyaniline for efficient visible-light-driven H<sub>2</sub> evolution. Sustainable Energy and Fuels, 2021, 6, 76-80. | 4.9 | 1 |