

Jinhua Ye

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

653
papers

52,198
citations

113
h-index

207
g-index

709
ext. papers

59,031
ext. citations

8.9
avg, IF

8.08
L-index

#	Paper	IF	Citations
653	Toward solar-driven carbon recycling. <i>Joule</i> , 2022 ,	27.8	17
652	Precisely Tailoring Nitrogen Defects in Carbon Nitride for Efficient Photocatalytic Overall Water Splitting.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
651	Solar Light-induced Injection of Hot Electrons and Photocarriers for Synergistically Enhanced Photothermocatalysis Over Cu-Co/SrTiO ₃ Catalyst Towards Boosting CO Hydrogenation Into C ₂ -4 Hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2022 , 121063	21.8	4
650	Artificial Photosynthesis: Fundamentals, Challenges, and Strategies. <i>NIMS Monographs</i> , 2022 , 233-263	0.3	1
649	Concentrating electron and activating H-OH bond of absorbed water on metallic NiCo ₂ S ₄ boosting photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2022 , 95, 107028	17.1	6
648	Synergy between Confined Cobalt Centers and Oxygen Defects on Fe ₂ O ₃ Platelets for Efficient Photocatalytic CO ₂ Reduction. <i>Solar Rrl</i> , 2022 , 6, 2100833	7.1	1
647	Unravelling unsaturated edge S in amorphous Ni _x S for boosting photocatalytic H ₂ evolution of metastable phase CdS confined inside hydrophilic beads. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121055	21.8	6
646	Defective g-C ₃ N ₄ /covalent organic framework van der Waals heterojunction toward highly efficient S-scheme CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2022 , 301, 120814	21.8	22
645	Hydrated electrons mediated in-situ construction of cubic phase CdS/Cd thin layer on a millimeter-scale support for photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 769-781	9.3	5
644	Solar-Driven Hydrogen Production: Recent Advances, Challenges, and Future Perspectives. <i>ACS Energy Letters</i> , 2022 , 7, 1043-1065	20.1	25
643	Efficient Photocatalytic Conversion of Methane into Ethanol over P-Doped g-C ₃ N ₄ under Ambient Conditions. <i>Energy & Fuels</i> , 2022 , 36, 3929-3937	4.1	1
642	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. <i>Advanced Materials</i> , 2022 , e2200180	24	18
641	Discerning the mechanism of expedited interfacial electron transformation boosting photocatalytic hydrogen evolution by metallic 1T-WS ₂ -induced photothermal effect. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121295	21.8	6
640	Photothermal tandem catalysis for CO ₂ hydrogenation to methanol. <i>CheM</i> , 2022 , 8, 1181-1183	16.2	1
639	Engineering interfacial charge transfer channel for efficient photocatalytic H ₂ evolution: the interplay of CoPx and Ca ²⁺ dopant. <i>Applied Catalysis B: Environmental</i> , 2021 , 120887	21.8	4
638	Plasmonic Metal Nanoparticles for Artificial Photosynthesis: Advancements, Mechanisms, and Perspectives. <i>Solar Rrl</i> , 2021 , 5, 2100611	7.1	1
637	Structural and Componential Engineering of CoP&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56064-56072	9.5	0

636	A synergetic strategy to construct anti-reflective and anti-corrosive Co-P/WSx/Si photocathode for durable hydrogen evolution in alkaline condition. <i>Applied Catalysis B: Environmental</i> , 2021 , 120954	21.8	0
635	Machine Learning in Screening High Performance Electrocatalysts for CO Reduction.. <i>Small Methods</i> , 2021 , 5, e2100987	12.8	8
634	Atomic-level insights into surface engineering of semiconductors for photocatalytic CO2 reduction. <i>Journal of Energy Chemistry</i> , 2021 ,	12	6
633	Fabrication of Black In2O3 with Dense Oxygen Vacancy through Dual Functional Carbon Doping for Enhancing Photothermal CO2 Hydrogenation. <i>Advanced Functional Materials</i> , 2021 , 31, 2100908	15.6	18
632	Interfacial-Bonding TiN/C Boosts Efficient Photocatalytic H2 Evolution in Close Coupling g-C3N4/TiO2. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12012-12018	3.8	3
631	Hierarchically Assembling CoFe Prussian Blue Analogue Nanocubes on CoP Nanosheets as Highly Efficient Electrocatalysts for Overall Water Splitting.. <i>Small Methods</i> , 2021 , 5, e2100125	12.8	5
630	Boron Dopant Induced Electron-Rich Bismuth for Electrochemical CO Reduction with High Solar Energy Conversion Efficiency. <i>Small</i> , 2021 , 17, e2101128	11	13
629	Rational construction of dual cobalt active species encapsulated by ultrathin carbon matrix from MOF for boosting photocatalytic H2 generation. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119924	21.8	15
628	Triggering Water and Methanol Activation for Solar-Driven H Production: Interplay of Dual Active Sites over Plasmonic ZnCu Alloy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12145-12153	16.4	22
627	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 119976	21.8	15
626	Solid-state synthesis of ultra-small freestanding amorphous MoP quantum dots for highly efficient photocatalytic H2 production. <i>Chemical Engineering Journal</i> , 2021 , 406, 126838	14.7	14
625	In Situ Assembly of MoSx Thin-Film through Self-Reduction on p-Si for Drastic Enhancement of Photoelectrochemical Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021 , 31, 2007071	15.6	9
624	Breaking Platinum Nanoparticles to Single-Atomic Pt-C Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2541-2547	16.4	22
623	A novel Cl- modification approach to develop highly efficient photocatalytic oxygen evolution over BiVO4 with AQE of 34.6%. <i>Nano Energy</i> , 2021 , 81, 105651	17.1	20
622	Efficient photocatalytic conversion of CH into ethanol with O over nitrogen vacancy-rich carbon nitride at room temperature. <i>Chemical Communications</i> , 2021 , 57, 871-874	5.8	12
621	Breaking Platinum Nanoparticles to Single-Atomic Pt-C4 Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie</i> , 2021 , 133, 2571-2577	3.6	3
620	Tridecaboron diphosphide: a new infrared light active photocatalyst for efficient CO2 photoreduction under mild reaction conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2421-2428	13	5
619	Beyond CN E conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. <i>Chemical Society Reviews</i> , 2021 , 50, 2147-2172	58.5	41

618	State-of-the-Art Progress in Diverse Black Phosphorus-Based Structures: Basic Properties, Synthesis, Stability, Photo- and Electrocatalysis-Driven Energy Conversion. <i>Advanced Functional Materials</i> , 2021 , 31, 2005197	15.6	18
617	Plasmonic photothermal catalysis for solar-to-fuel conversion: current status and prospects. <i>Chemical Science</i> , 2021 , 12, 5701-5719	9.4	33
616	Photothermal catalysts for hydrogenation reactions. <i>Chemical Communications</i> , 2021 , 57, 1279-1294	5.8	11
615	A surface-alkalinized Ti ₃ C ₂ MXene as an efficient cocatalyst for enhanced photocatalytic CO ₂ reduction over ZnO. <i>Catalysis Science and Technology</i> , 2021 , 11, 4953-4961	5.5	3
614	Designing Carbonized Loofah Sponge Architectures with Plasmonic Cu Nanoparticles Encapsulated in Graphitic Layers for Highly Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2021 , 21, 1709-1715	11.5	20
613	Ambient sunlight-driven photothermal methanol dehydrogenation for syngas production with 32.9 % solar-to-hydrogen conversion efficiency. <i>IScience</i> , 2021 , 24, 102056	6.1	5
612	Cost-Efficient Photovoltaic-Water Electrolysis over Ultrathin Nanosheets of Cobalt/Iron-Molybdenum Oxides for Potential Large-Scale Hydrogen Production. <i>Small</i> , 2021 , 17, e2102222	11.2	5
611	Efficient and selective photocatalytic CH ₄ conversion to CHOH with O ₂ by controlling overoxidation on TiO ₂ . <i>Nature Communications</i> , 2021 , 12, 4652	17.4	24
610	La,Al-Codoped SrTiO ₃ as a Photocatalyst in Overall Water Splitting: Significant Surface Engineering Effects on Defect Engineering. <i>ACS Catalysis</i> , 2021 , 11, 11429-11439	13.1	12
609	Non-stoichiometric Ag-In-S quantum dots for efficient photocatalytic CO ₂ reduction: Ag/In molar ratio dependent activity and selectivity. <i>Journal of Catalysis</i> , 2021 , 401, 271-278	7.3	0
608	Insights into the Operation of Noble-Metal-Free Cocatalyst 1T-WS ₂ -Decorated Zn Cd S for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2021 , 14, 4752-4763	8.3	3
607	A universal strategy boosting photoelectrochemical water oxidation by utilizing MXene nanosheets as hole transfer mediators. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120268	21.8	9
606	Photo-thermal CO ₂ reduction with methane on group VIII metals: In situ reduced WO ₃ support for enhanced catalytic activity. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1976-1982	11.3	4
605	Enhancing photocatalytic CO ₂ reduction performance of g-C ₃ N ₄ -based catalysts with non-noble plasmonic nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120440	21.8	12
604	Metal-organic framework-derived Ga-Cu/CeO ₂ catalyst for highly efficient photothermal catalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120519	21.8	8
603	Photocarriers-enhanced photothermocatalysis of water-gas shift reaction under H ₂ -rich and low-temperature condition over CeO ₂ /Cu _{1.5} Mn _{1.5} O ₄ catalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120551	21.8	6
602	Zr-Al co-doped SrTiO ₃ with suppressed charge recombination for efficient photocatalytic overall water splitting. <i>Chemical Communications</i> , 2021 , 57, 10640-10643	5.8	2
601	Engineering Heterogeneous NiS/NiS Cocatalysts with Progressive Electron Transfer from Planar p-Si Photocathodes for Solar Hydrogen Evolution.. <i>Small Methods</i> , 2021 , 5, e2001018	12.8	8

600	Cooperative catalysis coupling photo-/photothermal effect to drive Sabatier reaction with unprecedented conversion and selectivity. <i>Joule</i> , 2021 , 5, 3235-3251	27.8	11
599	PbS1xSex-Quantum-Dot@MWCNT/P3HT Nanocomposites with Tunable Photoelectric Conversion Performance. <i>Inorganics</i> , 2021 , 9, 87	2.9	
598	SnO2x/Sb2O3 composites synthesized by mechanical milling method with excellent photocatalytic properties for isopropyl alcohol oxidation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 8564-8577	2.1	1
597	Constructing electron delocalization channels in covalent organic frameworks powering CO2 photoreduction in water. <i>Applied Catalysis B: Environmental</i> , 2020 , 274, 119096	21.8	46
596	Marimo-Bead-Supported Core-Shell Nanocomposites of Titanium Nitride and Chromium-Doped Titanium Dioxide as a Highly Efficient Water-Floatable Green Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31327-31339	9.5	13
595	Lithium incorporation assisted synthesis of ultra-small Mo2C nanodots as efficient photocatalytic H2 evolution cocatalysts. <i>Chemical Engineering Journal</i> , 2020 , 399, 125794	14.7	16
594	Targeted removal of interfacial adventitious carbon towards directional charge delivery to isolated metal sites for efficient photocatalytic H2 production. <i>Nano Energy</i> , 2020 , 76, 105077	17.1	10
593	Polymeric carbon nitride with frustrated Lewis pair sites for enhanced photofixation of nitrogen. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13292-13298	13	19
592	Metal-Reduced WO3x Electrodes with Tunable Plasmonic Resonance for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3569-3576	6.1	12
591	Self-Induced Strain in 2D Chalcogenide Nanocrystals with Enhanced Photoelectrochemical Responsivity. <i>Chemistry of Materials</i> , 2020 , 32, 2774-2781	9.6	6
590	Ultrathin FeP Nanosheets as an Efficient Catalyst for Electrocatalytic Water Oxidation: Promoted Intermediates Adsorption by Surface Defects. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3577-3585	6.1	21
589	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. <i>Nanoscale</i> , 2020 , 12, 8693-8700	7.7	24
588	Selective Activation of Benzyl Alcohol Coupled with Photoelectrochemical Water Oxidation via a Radical Relay Strategy. <i>ACS Catalysis</i> , 2020 , 10, 4906-4913	13.1	68
587	Enhanced Photocatalytic CO2 Reduction over TiO2 Using Metalloporphyrin as the Cocatalyst. <i>Catalysts</i> , 2020 , 10, 654	4	9
586	Stressed Lattice Creating New Electric Field for Photoelectrocatalysis. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 725-726	2.2	
585	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO2 Reduction System with Solar-to-Fuel Efficiency of 11.3%. <i>Solar Rrl</i> , 2020 , 4, 2070072	7.1	
584	Hemispherical shell-thin lamellar WS2 porous structures composited with CdS photocatalysts for enhanced H2 evolution. <i>Chemical Engineering Journal</i> , 2020 , 388, 124346	14.7	31
583	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H2 evolution and degradation of isopropanol. <i>Chemical Engineering Journal</i> , 2020 , 390, 124558	14.7	30

582	Intermolecular cascaded π -conjugation channels for electron delivery powering CO photoreduction. <i>Nature Communications</i> , 2020 , 11, 1149	17.4	83
581	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO ₂ Photothermal Reduction: A Case of Atomic-Scale Dispersed Co ^{II} Species Anchored [email[protected]] Hybrid. <i>ACS Catalysis</i> , 2020 , 10, 4726-4736	13.1	44
580	Recent Progress on Exploring Stable Metal-Organic Frameworks for Photocatalytic Solar Fuel Production. <i>Solar Rrl</i> , 2020 , 4, 1900547	7.1	32
579	Toward visible-light-assisted photocatalytic nitrogen fixation: A titanium metal organic framework with functionalized ligands. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118686	21.8	69
578	Solar-driven production of hydrogen and acetaldehyde from ethanol on Ni-Cu bimetallic catalysts with solar-to-fuels conversion efficiency up to 3.8 %. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118965	21.8	26
577	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. <i>ChemCatChem</i> , 2020 , 12, 3870-3879	5.2	17
576	Two types of cooperative nitrogen vacancies in polymeric carbon nitride for efficient solar-driven H ₂ O ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118581	21.8	56
575	Electrocatalytic reduction of N ₂ and nitrogen-incorporation process on dopant-free defect graphene. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 55-61	13	14
574	Optimizing Electron Densities of Ni-N-C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO Reduction. <i>ChemSusChem</i> , 2020 , 13, 929-937	8.3	35
573	Selective Preparation of 1T- and 2H-Phase MoS ₂ Nanosheets with Abundant Monolayer Structure and Their Applications in Energy Storage Devices. <i>ACS Applied Energy Materials</i> , 2020 , 3, 998-1009	6.1	28
572	Recent advances in tuning the electronic structures of atomically dispersed Mn ^{II} materials for efficient gas-involving electrocatalysis. <i>Materials Horizons</i> , 2020 , 7, 970-986	14.4	20
571	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In O Nanosheets with Bifunctional Oxygen Vacancies. <i>Advanced Materials</i> , 2020 , 32, e1903915	24	103
570	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO ₃ Nanoparticles Studied by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1292-1302	3.8	10
569	Efficient photocatalytic CO ₂ reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21833-21841	13	7
568	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO ₂ electroreduction. <i>Nano Energy</i> , 2020 , 77, 105010	17.1	28
567	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. <i>ACS Catalysis</i> , 2020 , 10, 14318-14326	13.1	34
566	Fabrication of a TiO/FeO Core/Shell Nanostructure by Pulse Laser Deposition toward Stable and Visible Light Photoelectrochemical Water Splitting. <i>ACS Omega</i> , 2020 , 5, 19861-19867	3.9	8
565	Recent advances of low-dimensional phosphorus-based nanomaterials for solar-driven photocatalytic reactions. <i>Coordination Chemistry Reviews</i> , 2020 , 424, 213516	23.2	37

564	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO ₃ as an efficient water oxidation photocatalyst with activity comparable to BiVO ₄ under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119352	21.8	27
563	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal-Support Interaction Boosts Photocatalysis. <i>Small</i> , 2020 , 16, e2002356	11	22
562	Coupling of Cu Catalyst and Phosphonated Ru Complex Light Absorber with TiO ₂ as Bridge to Achieve Superior Visible Light CO ₂ Photoreduction. <i>Transactions of Tianjin University</i> , 2020 , 26, 470-478	2.9	9
561	Ultrafine nano 1T-MoS ₂ monolayers with NiO _x as dual co-catalysts over TiO ₂ photoharvester for efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119387	21.8	34
560	Facile Top-Down Strategy for Direct Metal Atomization and Coordination Achieving a High Turnover Number in CO Photoreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19259-19267	16.4	37
559	Cl modification for effective promotion of photoelectrochemical water oxidation over BiVO ₄ . <i>Chemical Communications</i> , 2020 , 56, 13153-13156	5.8	5
558	Recent Progress on Exploring Stable Metal-Organic Frameworks for Photocatalytic Solar Fuel Production. <i>Solar Rrl</i> , 2020 , 4, 2070084	7.1	3
557	Titanium-Based MOF Materials: From Crystal Engineering to Photocatalysis. <i>Small Methods</i> , 2020 , 4, 2000486	11.8	37
556	Constructing Chemical Interaction between Hematite and Carbon Nanosheets with Single Active Sites for Efficient Photo-Electrochemical Water Oxidation. <i>Small Methods</i> , 2020 , 4, 2000577	12.8	10
555	Wafer-scale Si nanoconed arrays induced syngas in the photoelectrochemical CO ₂ reduction. <i>Catalysis Today</i> , 2020 , 339, 321-327	5.3	4
554	Kopplung von Solarenergie und Wärmeenergie zur Kohlendioxidreduktion: Aktueller Stand und Perspektiven. <i>Angewandte Chemie</i> , 2020 , 132, 8092-8111	3.6	13
553	Coupling of Solar Energy and Thermal Energy for Carbon Dioxide Reduction: Status and Prospects. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8016-8035	16.4	156
552	Rules for Selecting Metal Cocatalyst Based on Charge Transfer and Separation Efficiency between ZnO Nanoparticles and Noble Metal Cocatalyst Ag/ Au/ Pt. <i>ChemCatChem</i> , 2020 , 12, 3838-3842	5.2	7
551	Plum Pudding-Like Electrocatalyst of N-Doped SnO _x @Sn Loaded on Carbon Matrix to Construct Photovoltaic CO ₂ Reduction System with Solar-to-Fuel Efficiency of 11.3%. <i>Solar Rrl</i> , 2020 , 4, 2000116	7.1	4
550	Molecular-level understanding of the deactivation pathways during methanol photo-reforming on Pt-decorated TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118980	21.8	10
549	Plasmon-Enhanced CO Selective Oxidation in H ₂ over Pt Nanoclusters Supported on Metallic Molybdenum Dioxide Nanocrystals. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001657	4.6	5
548	Ultrathin Cobalt-Manganese Nanosheets: An Efficient Platform for Enhanced Photoelectrochemical Water Oxidation with Electron-Donating Effect. <i>Advanced Functional Materials</i> , 2019 , 29, 1904622	15.6	27
547	Enhanced water oxidation reaction kinetics on a BiVO ₄ photoanode by surface modification with Ni ₄ O ₄ cubane. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 278-288	13	31

546	Alkali Treatment for Enhanced Photoelectrochemical Water Oxidation on Hematite Photoanode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5420-5429	8.3	18
545	Cation Vacancy-Initiated CO ₂ Photoreduction over ZnS for Efficient Formate Production. <i>ACS Energy Letters</i> , 2019 , 4, 1387-1393	20.1	53
544	Selective light absorber-assisted single nickel atom catalysts for ambient sunlight-driven CO methanation. <i>Nature Communications</i> , 2019 , 10, 2359	17.4	99
543	Remarkable Visible-Light Photocatalytic Activity Enhancement over Au/p-type TiO ₂ Promoted by Efficient Interfacial Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24154-24163	9.5	31
542	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13629-13634	13	21
541	Solar-Driven Water-Gas Shift Reaction over CuO _x /Al ₂ O ₃ with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 7790-7794	3.6	12
540	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1901024	15.6	31
539	An ultrathin porphyrin-based metal-organic framework for efficient photocatalytic hydrogen evolution under visible light. <i>Nano Energy</i> , 2019 , 62, 250-258	17.1	51
538	Integration of adsorption and photosensitivity capabilities into a cationic multivariate metal-organic framework for enhanced visible-light photoreduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 323-330	21.8	45
537	Ultrathin FeOOH nanosheets as an efficient cocatalyst for photocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9222-9229	13	63
536	Fabrication of Fe ₃ O ₄ @graphene/TiO ₂ nanohybrid with enhanced photocatalytic activity for isopropanol degradation. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 918-927	5.7	19
535	Solar-Driven Water-Gas Shift Reaction over CuO /Al ₂ O ₃ with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7708-7712	16.4	47
534	Integrated analysis of microfibrillar-associated proteins reveals MFAP4 as a novel biomarker in human cancers. <i>Epigenomics</i> , 2019 , 11, 1635-1651	4.4	19
533	Conformal BiVO ₄ -Layer/WO ₃ -Nanoplate-Array Heterojunction Photoanode Modified with Cobalt Phosphate Cocatalyst for Significantly Enhanced Photoelectrochemical Performances. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5623-5631	9.5	63
532	Unravelling the effects of layered supports on Ru nanoparticles for enhancing N ₂ reduction in photocatalytic ammonia synthesis. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118026	21.8	22
531	Identification of long noncoding RNA RP11-169F17.1 and RP11-669N7.2 as novel prognostic biomarkers of stomach adenocarcinoma based on integrated bioinformatics analysis. <i>Epigenomics</i> , 2019 , 11, 1307-1321	4.4	10
530	Solar-Energy-Mediated Methane Conversion. <i>Joule</i> , 2019 , 3, 1606-1636	27.8	108
529	Self-templated construction of 1D NiMo nanowires via a Li electrochemical tuning method for the hydrogen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 19429-19436	7.7	16

528	Co and Fe Codoped WO as Alkaline-Solution-Available Oxygen Evolution Reaction Catalyst to Construct Photovoltaic Water Splitting System with Solar-To-Hydrogen Efficiency of 16.9. <i>Advanced Science</i> , 2019 , 6, 1900465	13.6	37
527	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118027	21.8	13
526	Oxygen vacancies induced special CO2 adsorption modes on Bi ₂ MoO ₆ for highly selective conversion to CH ₄ . <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118088	21.8	100
525	A disparate role of RP11-424C20.2/UHRF1 axis through control of tumor immune escape in liver hepatocellular carcinoma and thymoma. <i>Aging</i> , 2019 , 11, 6422-6439	5.6	14
524	A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. <i>Chemical Science</i> , 2019 , 11, 791-796	9.4	29
523	Photo-assisted methanol synthesis via CO ₂ reduction under ambient pressure over plasmonic Cu/ZnO catalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 10-16	21.8	71
522	Finely dispersed Au nanoparticles on graphitic carbon nitride as highly active photocatalyst for hydrogen peroxide production. <i>Catalysis Communications</i> , 2019 , 123, 69-72	3.2	27
521	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic HO production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. <i>Chemical Communications</i> , 2019 , 55, 13279-13282	5.8	22
520	Direct and Selective Photocatalytic Oxidation of CH to Oxygenates with O on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20507-20515	16.4	99
519	Copper nanoparticles selectively encapsulated in an ultrathin carbon cage loaded on SrTiO as stable photocatalysts for visible-light H evolution via water splitting. <i>Chemical Communications</i> , 2019 , 55, 12900-12903	5.8	24
518	Salt-template-assisted construction of honeycomb-like structured g-C ₃ N ₄ with tunable band structure for enhanced photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 64-71	21.8	89
517	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
516	Integrated analysis of pseudogene RP11-564D11.3 expression and its potential roles in hepatocellular carcinoma. <i>Epigenomics</i> , 2019 , 11, 267-280	4.4	12
515	Highly efficient Cu induced photocatalysis for visible-light hydrogen evolution. <i>Catalysis Today</i> , 2019 , 335, 166-172	5.3	18
514	Light irradiation enhanced CO ₂ reduction with methane: A case study in size-dependent optical property of Ni nanoparticles. <i>Catalysis Today</i> , 2019 , 335, 187-192	5.3	17
513	Photochemical Conversion and Storage of Solar Energy. <i>ACS Energy Letters</i> , 2019 , 4, 405-410	20.1	16
512	Synthesis of bismuth molybdate photocatalysts for CO ₂ photo-reduction. <i>Journal of CO₂ Utilization</i> , 2019 , 29, 196-204	7.6	21
511	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 1013-1020	21.8	32

510	Three-dimensional Bi ₂ MoO ₆ /TiO ₂ array heterojunction photoanode modified with cobalt phosphate cocatalyst for high-efficient photoelectrochemical water oxidation. <i>Catalysis Today</i> , 2019 , 335, 262-268	5.3	19
509	Comprehensive analysis of Helicobacter pylori infection-associated diseases based on miRNA-mRNA interaction network. <i>Briefings in Bioinformatics</i> , 2019 , 20, 1492-1501	13.4	23
508	Constructing and controlling of highly dispersed metallic sites for catalysis. <i>Nano Today</i> , 2018 , 19, 108-125	15.9	30
507	Synergetic Exfoliation and Lateral Size Engineering of MoS for Enhanced Photocatalytic Hydrogen Generation. <i>Small</i> , 2018 , 14, e1704153	11	60
506	Boosting the Photocatalytic Activity of P25 for Carbon Dioxide Reduction by using a Surface-Alkalinized Titanium Carbide MXene as Cocatalyst. <i>ChemSusChem</i> , 2018 , 11, 1606-1611	8.3	142
505	Unique homo-heterojunction synergistic system consisting of stacked BiOCl nanoplate/Zn-Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO into solar fuels. <i>Chemical Communications</i> , 2018 , 54, 5126-5129	5.8	20
504	Fabricating a Au@TiO ₂ Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H ₂ Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. <i>ACS Catalysis</i> , 2018 , 8, 4266-4277	13.1	33
503	Interfacing Photosynthetic Membrane Protein with Mesoporous WO Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018 , 14, e1800104	11	11
502	Surface step decoration of isolated atom as electron pumping: Atomic-level insights into visible-light hydrogen evolution. <i>Nano Energy</i> , 2018 , 45, 109-117	17.1	80
501	Photo-enhanced lithium oxygen batteries with defective titanium oxide as both photo-anode and air electrode. <i>Energy Storage Materials</i> , 2018 , 13, 49-56	19.4	49
500	Efficient photocatalytic CO ₂ reduction over Co(II) species modified CdS in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 252-257	21.8	57
499	Photoassisted Construction of Holey Defective g-C ₃ N ₄ Photocatalysts for Efficient Visible-Light-Driven H ₂ O Production. <i>Small</i> , 2018 , 14, 1703142	11	231
498	Ultra-small freestanding amorphous molybdenum sulfide colloidal nanodots for highly efficient photocatalytic hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 446-453	21.8	45
497	Significant enhancement in photocatalytic activity of (GaN) _{1-x} (ZnO) _x nanowires via solubility and crystal facet tailoring. <i>AIP Advances</i> , 2018 , 8, 015206	1.5	9
496	Implantation of Iron(III) in porphyrinic metal organic frameworks for highly improved photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 60-68	21.8	75
495	Single-Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1701343	21.8	485
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493	Visible-Light-Mediated Methane Activation for Steam Methane Reforming under Mild Conditions: A Case Study of Rh/TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 7556-7565	13.1	77

492	Enhanced Visible-Light-Driven Hydrogen Production of Carbon Nitride by Band Structure Tuning. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17261-17267	3.8	20
491	Enhancing the photocatalytic activity and photostability of zinc oxide nanorod arrays via graphitic carbon mediation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 973-981	11.3	6
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489	Semiconductor-Based Photoelectrochemical Conversion of Carbon Dioxide: Stepping Towards Artificial Photosynthesis. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 127-142	4.5	30
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486	A Promising Application of Optical Hexagonal TaN in Photocatalytic Reactions. <i>Angewandte Chemie</i> , 2018 , 130, 17023-17026	3.6	4
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484	Nitrogen Fixation Reaction Derived from Nanostructured Catalytic Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1803309	15.6	137
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482	A rapidly room-temperature-synthesized Cd/ZnS:Cu nanocrystal photocatalyst for highly efficient solar-light-powered CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 68-73	21.8	42
481	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO ₂ reduction under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 141-149	21.8	152
480	Photothermal Catalysis: Targeting Activation of CO ₂ and H ₂ over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO ₂ Methanation in Flow-Type System (Adv. Energy Mater. 5/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	3
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98	A new spinel-type photocatalyst BaCr ₂ O ₄ for H ₂ evolution under UV and visible light irradiation. <i>Chemical Physics Letters</i> , 2003 , 373, 191-196	2-5	61
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