

Can Li

List of Publications by Year in Descending Order

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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.

569
papers

42,094
citations

97
h-index

186
g-index

607
ext. papers

48,756
ext. citations

10.7
avg, IF

7.99
L-index

#	Paper	IF	Citations
569	Designing a Z-scheme system based on photocatalyst panels towards separated hydrogen and oxygen production from overall water splitting. <i>Catalysis Science and Technology</i> , 2022 , 12, 572-578	5.5	0
568	Unraveling of cocatalysts photodeposited selectively on facets of BiVO to boost solar water splitting.. <i>Nature Communications</i> , 2022 , 13, 484	17.4	21
567	Hydrogenation of CO ₂ to Chemicals with Green Hydrogen 2022 , 1073-1184		
566	Deeper Insight into the Role of Organic Ammonium Cations in Reducing Surface Defects of the Perovskite Film.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	3
565	Modulating acid-base properties of ZIF-8 by thermal-induced structure evolution. <i>Journal of Catalysis</i> , 2022 , 406, 165-173	7.3	0
564	Highly dispersed Cd cluster supported on TiO ₂ as an efficient catalyst for CO ₂ hydrogenation to methanol. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 761-770	11.3	2
563	Photo-assisted sequential assembling of uniform metal nanoclusters on semiconductor support.. <i>IScience</i> , 2022 , 25, 103572	6.1	2
562	Formation of multifaceted nano-groove structure on rutile TiO ₂ photoanode for efficient electron-hole separation and water splitting. <i>Journal of Energy Chemistry</i> , 2022 , 65, 19-25	12	4
561	VAg Linkages in VAgOx Mixed Oxides for the Selective Oxidation of p-Xylene to p-Methyl Benzaldehyde. <i>ACS Catalysis</i> , 2022 , 12, 3323-3332	13.1	1
560	Surface Phosphate Functionalization for Boosting Plasmon-Induced Water Oxidation on Au/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5167-5174	3.8	0
559	Activating Semiconductor-Liquid Junction via Laser Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting.. <i>Advanced Materials</i> , 2022 , e2201140	24	3
558	Photoelectrocatalytic degradation of refractory pollutants over WO ₃ /W network photoelectrode with heterophase junction for enhancing mass transportation and charge separation. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121292	21.8	1
557	EPR study of charge separation associated states and reversibility of surface bound superoxide radicals in SrTiO ₃ photocatalyst. <i>Journal of Energy Chemistry</i> , 2022 , 70, 388-393	12	3
556	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyst. <i>ACS Catalysis</i> , 2022 , 12, 491-496	13.1	5
555	Recent advances and perspectives for solar-driven water splitting using particulate photocatalysts.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	22
554	Tuning Exciton Recombination Pathways in Inorganic Bismuth-Based Perovskite for Broadband Emission. <i>Energy Material Advances</i> , 2022 , 2022, 1-11	1	2
553	Dual Ligands Strategy to Regulate the Nucleation and Growth of Lead Chromate Photoanode for Photoelectrochemical Water Splitting.. <i>Advanced Materials</i> , 2022 , e2110610	24	2

552	Aromatic bromination with hydrogen production on organic-inorganic hybrid perovskite-based photocatalysts under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1805-1811	11.3	0
551	Identifying the Role of the Local Charge Density on the Hydrogen Evolution Reaction of the Photoelectrode. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10829-10836	6.4	1
550	Lead-free B-site bimetallic perovskite photocatalyst for efficient benzylic C-H bond activation. <i>Cell Reports Physical Science</i> , 2021 , 2, 100656	6.1	5
549	Spatial Separation of Photogenerated Charges on Well-Defined Bismuth Vanadate Square Nanocrystals. <i>Small</i> , 2021 , e2103245	11	3
548	Boosting Electrochemical Water Oxidation on NiFe (oxy) Hydroxides by Constructing Schottky Junction toward Water Electrolysis under Industrial Conditions. <i>Small</i> , 2021 , e2105544	11	7
547	Cationic Porphyrin-Mediated G-Quadruplex DNA Oxidative Damage: Regulated by the Initial Interplay between DNA and TMPyP4. <i>Biochemistry</i> , 2021 , 60, 3707-3713	3.2	0
546	Scalable solar water splitting using particulate photocatalysts. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 33, 100577	7.9	1
545	Crystal facet modulation of BiWO ₄ microplates for spatial charge separation and inhibiting reverse reaction. <i>Chemical Communications</i> , 2021 , 57, 11637-11640	5.8	5
544	The promoting role of Ga in ZnZrOx solid solution catalyst for CO ₂ hydrogenation to methanol. <i>Journal of Catalysis</i> , 2021 , 404, 383-392	7.3	4
543	Liberating photoinhibition through nongenetic drainage of electrons from photosynthesis. <i>Natural Sciences</i> , 2021 , 1, e20210038		2
542	Visualizing the Spatial Heterogeneity of Electron Transfer on a Metallic Nanoplate Prism. <i>Nano Letters</i> , 2021 , 21, 8901-8909	11.5	1
541	Ultrathin Cobalt Oxide Interlayer Facilitated Hole Storage for Sustained Water Oxidation over Compositated Tantalum Nitride Photoanodes. <i>ACS Catalysis</i> , 2021 , 11, 12736-12744	13.1	4
540	Atomically Unraveling the Dependence of Surface Microstructure on Plasmon-induced Hydrogen Evolution on Au/SrTiO ₃ . <i>Nano Energy</i> , 2021 , 91, 106638	17.1	3
539	Crystallinity and Orientation Manipulation of Anthracene Diimide Polymers for All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2011049	15.6	4
538	Solvent-Actuated Self-Assembly of Amphiphilic Hole-Transporting Polymer Enables Bottom-Surface Passivation of Perovskite Film for Efficient Photovoltaics. <i>Advanced Energy Materials</i> , 2021 , 11, 2100493	21.8	7
537	Shallow Oxygen Substitution Defect to Deeper Defect Transformation Mechanism in TaN under Light Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3698-3704	6.4	2
536	Surface Passivation Effect of Ferrihydrite with Hole-Storage Ability in Water Oxidation on BiVO ₄ Photoanode. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8369-8375	3.8	4
535	Unassisted Highly Selective Gas-Phase CO ₂ Reduction with a Plasmonic Au/p-GaN Photocatalyst Using H ₂ O as an Electron Donor. <i>ACS Energy Letters</i> , 2021 , 6, 1849-1856	20.1	14

534	Highly Selective Detection of K Based on a Dimerized G-Quadruplex DNAzyme. <i>Analytical Chemistry</i> , 2021 , 93, 6907-6912	7.8	6
533	CO ₂ hydrogenation to methanol on ZnO-ZrO ₂ solid solution catalysts with ordered mesoporous structure. <i>Journal of Catalysis</i> , 2021 , 396, 242-250	7.3	7
532	Synthesis of Bifunctional Porphyrin Polymers for Catalytic Conversion of Dilute CO to Cyclic Carbonates. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	10
531	Efficient non-fullerene organic solar cells with low-temperature solution-processing ferrous oxides as hole transport layer. <i>Organic Electronics</i> , 2021 , 93, 106139	3.5	3
530	Mechanistic Studies on Photocatalytic Overall Water Splitting over GaO-Based Photocatalysts by MS-FTIR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6029-6033	6.4	3
529	Palladium-catalyzed enantioselective linear allylic alkylation of vinyl benzoxazinones: An inner-sphere mechanism. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1227-1237	11.3	2
528	Atomically dispersed Pt ⁿ⁺ species as highly active sites in Pt/In ₂ O ₃ catalysts for methanol synthesis from CO ₂ hydrogenation. <i>Journal of Catalysis</i> , 2021 , 394, 236-244	7.3	54
527	Interfacial Modulation with Aluminum Oxide for Efficient Plasmon-Induced Water Oxidation. <i>Advanced Functional Materials</i> , 2021 , 31, 2005688	15.6	11
526	Multiple methoxy-substituted hole transporter for inverted perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 56, 127-131	12	0
525	Probing of coupling effect induced plasmonic charge accumulation for water oxidation. <i>National Science Review</i> , 2021 , 8, nwa151	10.8	16
524	Intrinsic photocatalytic water oxidation activity of Mn-doped ferroelectric BiFeO ₃ . <i>Chinese Journal of Catalysis</i> , 2021 , 42, 945-952	11.3	3
523	Surface assembly of cobalt species for simultaneous acceleration of interfacial charge separation and catalytic reactions on Cd _{0.9} Zn _{0.1} S photocatalyst. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1004-1012	11.3	3
522	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6691-6698	16.4	11
521	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2021 , 133, 6765-6772	3.6	2
520	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. <i>Chemical Reviews</i> , 2021 , 121, 736-795	68.1	92
519	Divergent Asymmetric Reactions of ortho-Quinone Methides with π -Thiocyanato Indanones for the Synthesis of Spiro- and Fused-Indanones. <i>Chemistry - A European Journal</i> , 2021 , 27, 735-739	4.8	6
518	Interface engineering with an AlO _x dielectric layer enabling an ultrastable Ta ₃ N ₅ photoanode for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11285-11290	13	7
517	Reducing non-radiative recombination energy loss via a fluorescence intensifier for efficient and stable ternary organic solar cells. <i>Materials Horizons</i> , 2021 , 8, 2335-2342	14.4	4

516	Halide perovskites for light emission and artificial photosynthesis: Opportunities, challenges, and perspectives. <i>EcoMat</i> , 2021 , 3, e12074	9.4	6
515	Water-initiated hydrocarboxylation of terminal alkynes with CO and hydrosilane. <i>Chemical Communications</i> , 2021 , 57, 1230-1233	5.8	2
514	Achieving selective photocatalytic CO ₂ reduction to CO on bismuth tantalum oxyhalogen nanoplates. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19631-19636	13	11
513	Controllable stereoinversion in DNA-catalyzed olefin cyclopropanation cofactor modification. <i>Chemical Science</i> , 2021 , 12, 7918-7923	9.4	2
512	Mechanistic Understanding of Efficient Photocatalytic H Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7376-7381	16.4	13
511	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie</i> , 2021 , 133, 7452-7457	3.6	2
510	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. <i>Joule</i> , 2021 , 5, 344-359	27.8	39
509	Blocking the non-selective sites through surface plasmon-induced deposition of metal oxide on Au/TiO ₂ for CO-PROX reaction. <i>Chem Catalysis</i> , 2021 , 1, 456-466		1
508	Highly Efficient Degradation of Persistent Pollutants with 3D Nanocone TiO-Based Photoelectrocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13664-13674	16.4	26
507	Unassisted Photoelectrochemical Cell with Multimediator Modulation for Solar Water Splitting Exceeding 4% Solar-to-Hydrogen Efficiency. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12499-12508	16.4	41
506	Biomimetic approach to the catalytic enantioselective synthesis of tetracyclic isochroman. <i>Nature Communications</i> , 2021 , 12, 4958	17.4	2
505	Development of Sn ²⁺ -based oxyfluoride photocatalyst with visible light response of ca. 650 nm via strengthened hybridization of Sn 5s and O 2p orbitals. <i>Journal of Energy Chemistry</i> , 2021 , 63, 385-385	12	2
504	Palladium-Catalyzed Asymmetric Allylic C-H Functionalization for the Synthesis of Hydroquinolines through Intermolecular [4+2] Cycloadditions. <i>ACS Catalysis</i> , 2021 , 11, 10913-10922	13.1	0
503	Direct synthesis of <i>p</i> -methyl benzaldehyde from acetaldehyde via an organic amine-catalyzed dehydrogenation mechanism. <i>Science</i> , 2021 , 24, 103028	6.1	1
502	Cell-free chemoenzymatic starch synthesis from carbon dioxide. <i>Science</i> , 2021 , 373, 1523-1527	33.3	50
501	Heterostructure of Ta ₃ N ₅ nanorods and CaTaO ₂ N nanosheets fabricated using a precursor template to boost water splitting under visible light. <i>Journal of Energy Chemistry</i> , 2021 , 67, 27-27	12	2
500	Boosting photocatalytic water oxidation by surface plasmon resonance of Ag _x Au _{1-x} alloy nanoparticles. <i>Nano Energy</i> , 2021 , 87, 106189	17.1	11
499	Room Temperature Allenation of Terminal Alkynes with Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25708-25713	16.4	1

498	Pd modified defective HNb3O8 with dual active sites for photocatalytic coproduction of hydrogen fuel and value-added chemicals. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120381	21.8	10
497	Dopant-free polymer/2D/3D perovskite solar cells with high stability. <i>Nano Energy</i> , 2021 , 90, 106521	17.1	6
496	Isomeric anthracene diimide polymers. <i>Chemical Science</i> , 2021 , 12, 2848-2852	9.4	4
495	Hydrogenation of Carbon Dioxide to Methanol over Non-Cu-based Heterogeneous Catalysts. <i>ChemSusChem</i> , 2020 , 13, 6160-6181	8.3	19
494	Photoinduced Surface Activation of Semiconductor Photocatalysts under Reaction Conditions: A Commonly Overlooked Phenomenon in Photocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 5941-5948	13.1	23
493	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
492	Dion-Jacobson 2D-3D perovskite solar cells with improved efficiency and stability. <i>Nano Energy</i> , 2020 , 75, 104892	17.1	50
491	SrNiWO Double Perovskite Oxide as a Novel Visible-Light-Responsive Water Oxidation Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25938-25948	9.5	20
490	Enantioselective Olefin Cyclopropanation with G-Quadruplex DNA-Based Biocatalysts. <i>ACS Catalysis</i> , 2020 , 10, 6561-6567	13.1	9
489	Effects of the interfacial defects in Au/ TiO on plasmon-induced water oxidation. <i>Journal of Chemical Physics</i> , 2020 , 152, 194702	3.9	8
488	Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO reduction and HO oxidation. <i>Nature Communications</i> , 2020 , 11, 3043	17.4	93
487	Iron/Quinone-based all-in-one solar rechargeable flow cell for highly efficient solar energy conversion and storage. <i>Nano Energy</i> , 2020 , 76, 104907	17.1	5
486	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9653-9658	16.4	71
485	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. <i>Angewandte Chemie</i> , 2020 , 132, 9740-9745	3.6	14
484	Exploration of the intrinsic factors limiting the photocurrent density in ferroelectric BiFeO3 thin film. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6863-6873	13	14
483	Unravelling the water oxidation mechanism on NaTaO3-based photocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6812-6821	13	14
482	Water Oxidation on TiO2: A Comparative DFT Study of 1e ⁻ and 4e ⁻ Processes on Rutile, Anatase, and Brookite. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8094-8100	3.8	13
481	Constructing NiFe-LDH wrapped Cu2O nanocube heterostructure photocatalysts for enhanced photocatalytic dye degradation and CO2 reduction via Z-scheme mechanism. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154723	5.7	44

480	Laser-generated BiVO colloidal particles with tailoring size and native oxygen defect for highly efficient gas sensing. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122471	12.8	8
479	Understanding the Effect of Crystalline Structural Transformation for Lead-Free Inorganic Halide Perovskites. <i>Advanced Materials</i> , 2020 , 32, e2002137	24	40
478	Surface defect passivation of TaN photoanode via pyridine grafting for enhanced photoelectrochemical performance. <i>Journal of Chemical Physics</i> , 2020 , 153, 024705	3.9	2
477	Boosting Performance of Non-Fullerene Organic Solar Cells by 2D g-C ₃ N ₄ Doped PEDOT:PSS. <i>Advanced Functional Materials</i> , 2020 , 30, 1910205	15.6	55
476	2D Conjugated Polyelectrolytes Possessing Identical Backbone with Active-Layer Polymer as Cathode Interlayer for Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900624	4.8	2
475	Cobalt-Catalyzed Regio- and Stereoselective Hydroboration of Allenes. <i>Angewandte Chemie</i> , 2020 , 132, 6337-6342	3.6	8
474	Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6590-6595	16.4	115
473	H-Bonds-Assisted Molecular Order Manipulation of Nonfullerene Acceptors for Efficient Nonannealed Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903650	21.8	22
472	Embedding Sulfur Atoms in Decahedron Bismuth Vanadate Crystals with a Soft Chemical Approach for Expanding the Light Absorption Range. <i>ChemCatChem</i> , 2020 , 12, 1585-1590	5.2	2
471	Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2020 , 132, 6652-6657	3.6	20
470	Pyroelectric effect in CdS nanorods decorated with a molecular Co-catalyst for hydrogen evolution. <i>Nano Energy</i> , 2020 , 73, 104810	17.1	74
469	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. <i>Solar Rrl</i> , 2020 , 4, 1900445	7.1	8
468	Surface-Polarity-Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 935-942	16.4	55
467	Carbon nitride embedded with transition metals for selective electrocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118391	21.8	40
466	Surface-Polarity-Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie</i> , 2020 , 132, 945-952	3.6	12
465	Carboxylation of Toluene with CO ₂ -derived Dimethyl Carbonate over Amorphous TiZr Mixed-metal Oxide Catalysts. <i>ChemCatChem</i> , 2020 , 12, 95-99	5.2	2
464	Internal-Field-Enhanced Charge Separation in a Single-Domain Ferroelectric PbTiO Photocatalyst. <i>Advanced Materials</i> , 2020 , 32, e1906513	24	68
463	Advanced space- and time-resolved techniques for photocatalyst studies. <i>Chemical Communications</i> , 2020 , 56, 1007-1021	5.8	28

462	Efficient hydrogen peroxide synthesis by metal-free polyterthiophene via photoelectrocatalytic dioxygen reduction. <i>Energy and Environmental Science</i> , 2020 , 13, 238-245	35.4	71
461	Cobalt-Catalyzed Regio- and Stereoselective Hydroboration of Allenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6278-6283	16.4	19
460	High-Performance Solar Redox Flow Battery toward Efficient Overall Splitting of Hydrogen Sulfide. <i>ACS Energy Letters</i> , 2020 , 5, 597-603	20.1	12
459	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel-Crafts Reactions in Water. <i>Angewandte Chemie</i> , 2020 , 132, 3472-3477	3.6	1
458	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel-Crafts Reactions in Water. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3444-3449	16.4	5
457	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO ₃ . <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 412-418	6.4	11
456	A Novel Double Perovskite Oxide Semiconductor Sr ₂ CoWO ₆ as Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions from Water under Visible Light Irradiation. <i>Solar Rrl</i> , 2020 , 4, 1900456	7.1	18
455	Carbon Encapsulation of Organic-Inorganic Hybrid Perovskite toward Efficient and Stable Photo-Electrochemical Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 2002105	21.8	15
454	Surface state modulation for size-controllable photodeposition of noble metal nanoparticles on semiconductors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21094-21102	13	8
453	Reducing the surface defects of Ta ₃ N ₅ photoanode towards enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23274-23283	13	10
452	Regulation of Ferroelectric Polarization to Achieve Efficient Charge Separation and Transfer in Particulate RuO ₂ /BiFeO ₃ for High Photocatalytic Water Oxidation Activity. <i>Small</i> , 2020 , 16, e2003361	11	18
451	The Polarization Effect in Surface-Plasmon-Induced Photocatalysis on Au/TiO ₂ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18218-18223	16.4	37
450	The Polarization Effect in Surface-Plasmon-Induced Photocatalysis on Au/TiO ₂ Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 18375-18380	3.6	11
449	Interfacial synergy of Pd sites and defective BiOBr for promoting the solar-driven selective oxidation of toluene. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17657-17669	13	32
448	Oxygen vacancy engineering with flame heating approach towards enhanced photoelectrochemical water oxidation on WO ₃ photoanode. <i>Nano Energy</i> , 2020 , 77, 105190	17.1	25
447	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. <i>Science China Chemistry</i> , 2020 , 63, 1756-1760	7.9	5
446	Sr ₂ CoTaO ₆ Double Perovskite Oxide as a Novel Visible-Light-Absorbing Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14190-14197	8.3	12
445	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. <i>Nature Communications</i> , 2020 , 11, 4622	17.4	52

444	Simultaneous hole transport and defect passivation enabled by a dopant-free single polymer for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21036-21043	13	15
443	Nonfullerene Bulk Heterojunction-Based Photocathodes for Highly Efficient Solar Hydrogen Production in Acidic and Neutral Solutions. <i>Advanced Functional Materials</i> , 2020 , 30, 2003399	15.6	11
442	The noncovalent dimerization of a G-quadruplex/hemin DNAzyme improves its biocatalytic properties. <i>Chemical Science</i> , 2020 , 11, 8846-8853	9.4	10
441	Visible-Light-Driven Photocatalytic Hydrogen Production on Cd _{0.5} Zn _{0.5} S Nanorods with an Apparent Quantum Efficiency Exceeding 80%. <i>Advanced Functional Materials</i> , 2020 , 30, 2003731	15.6	30
440	Allylsilane Reagent-Controlled Divergent Asymmetric Catalytic Reactions of 2-Naphthoquinone-1-methide. <i>Chemistry - A European Journal</i> , 2020 , 26, 14173-14180	4.8	4
439	A Spirobixanthene-Based Dendrimeric Hole-Transporting Material for Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900367	7.1	6
438	Development of a bismuth-based metal-organic framework for photocatalytic hydrogen production. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1339-1344	11.3	34
437	High-Performance MaZrOx (Ma = Cd, Ga) Solid-Solution Catalysts for CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2019 , 9, 10253-10259	13.1	60
436	Charge carrier transport dynamics in W/Mo-doped BiVO ₄ : first principles-based mesoscale characterization. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3054-3065	13	29
435	Boosting photocatalytic water splitting by tuning built-in electric field at phase junction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10264-10272	13	58
434	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. <i>Chemical Society Reviews</i> , 2019 , 48, 2109-2125	58.5	1029
433	Integrating a redox flow battery into a Z-scheme water splitting system for enhancing the solar energy conversion efficiency. <i>Energy and Environmental Science</i> , 2019 , 12, 631-639	35.4	31
432	Spatial separation of dual-cocatalysts on one-dimensional semiconductors for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15607-15614	13	25
431	Artificial photosynthesis systems for catalytic water oxidation. <i>Advances in Inorganic Chemistry</i> , 2019 , 74, 3-59	2.1	24
430	Blocking backward reaction on hydrogen evolution cocatalyst in a photosystem II hybrid Z-scheme water splitting system. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 486-494	11.3	13
429	Stable Potential Windows for Long-Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. <i>Angewandte Chemie</i> , 2019 , 131, 5108-5112	3.6	25
428	Crystallographic-Orientation-Dependent Charge Separation of BiVO ₄ for Solar Water Oxidation. <i>ACS Energy Letters</i> , 2019 , 4, 825-831	20.1	80
427	Homophase Junction for Promoting Spatial Charge Separation in Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 3242-3252	13.1	71

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425	Stable Potential Windows for Long-Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5054-5058	16.4	91
424	Effect of Facet-Selective Assembly of Cocatalyst on BiVO ₄ Photoanode for Solar Water Oxidation. <i>ChemCatChem</i> , 2019 , 11, 3763-3769	5.2	20
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422	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019 , 9, 1803889	21.8	56
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405	Development of Mixed-Anion Photocatalysts with Wide Visible-Light Absorption Bands for Solar Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 1872-1888	8.3	20
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