

Baibiao Huang

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.

723
papers

35,954
citations

93
h-index

160
g-index

754
ext. papers

41,763
ext. citations

7
avg, IF

7.79
L-index

#	Paper	IF	Citations
723	Integrative Metabolomics, Proteomics and Transcriptomics Analysis Reveals Liver Toxicity of Mesoporous Silica Nanoparticles.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 835359	5.6	
722	Photocatalytic Selective Oxidation of HMF Coupled with H ₂ Evolution on Flexible Ultrathin g-C ₃ N ₄ Nanosheets with Enhanced NH ₂ Interaction. <i>ACS Catalysis</i> , 2022 , 12, 1919-1929	13.1	12
721	Synthesis of photocatalytic hybrid nanostructures 2022 ,		
720	Photoreforming of plastic waste poly (ethylene terephthalate) via in-situ derived CN-CNTs-NiMo hybrids. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121143	21.8	2
719	High-Throughput Screening of Efficient Biatom Catalysts Based on Monolayer Carbon Nitride for the Nitric Oxide Reduction Reaction.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 527-535	6.4	2
718	Borate-modulated amorphous NiFeB nanocatalysts as highly active and stable electrocatalysts for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163741	5.7	2
717	Boosting hot electrons transfer via laser-induced atomic redistribution for plasmon-enhanced nitroreduction and single-particle study. <i>Journal of Catalysis</i> , 2022 ,	7.3	2
716	Highly efficient electrocatalytic hydrogen evolution coupled with upcycling of microplastics in seawater enabled via Ni ₃ N/W ₅ N ₄ janus nanostructures. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121198	21.8	4
715	Strain-assisted in-situ formed oxygen defective WO ₃ film for photothermal-synergistic reverse water gas shift reaction and single-particle study. <i>Chemical Engineering Journal</i> , 2022 , 433, 134199	14.7	0
714	Stress-induced BiVO ₄ photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 121012	21.8	5
713	Improved photocatalytic CO ₂ and epoxides cycloaddition via the synergistic effect of Lewis acidity and charge separation over Zn modified UiO-bpydc. <i>Applied Catalysis B: Environmental</i> , 2022 , 301, 120793	21.8	7
712	Mo-O-Bi Bonds as interfacial electron transport bridges to fuel CO ₂ photoreduction via in-situ reconstruction of black Bi ₂ MoO ₆ /BiO _{2-x} heterojunction. <i>Chemical Engineering Journal</i> , 2022 , 429, 132204	14.7	16
711	Photococatalytic anticancer performance of naked Ag/AgCl nanoparticles. <i>Chemical Engineering Journal</i> , 2022 , 428, 131265	14.7	3
710	Enhanced stability and activity towards photocatalytic CO ₂ reduction via supercycle ALD of Cu and TiO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 429, 132022	14.7	2
709	Excited-State Properties of CuInPS Monolayer as Photocatalyst for Water Splitting.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1972-1978	6.4	0
708	Plasmon-Enhanced Water Activation for Hydrogen Evolution from Ammonia-Borane Studied at a Single-Particle Level. <i>ACS Catalysis</i> , 2022 , 12, 3558-3565	13.1	3
707	Strain Adjustment Realizes the Photocatalytic Overall Water Splitting on Tetragonal Zircon BiVO ₄ .. <i>Advanced Science</i> , 2022 , e2105299	13.6	6

706	Hydrogen adsorption behavior on AXenes Na ₂ N and K ₂ N: a first-principles study. <i>Materials Research Express</i> , 2022 , 9, 045501	1.7	0
705	Photoelectrochemical Oxidation of Amines to Imines and Production of Hydrogen through Mo-Doped BiVO Photoanode.. <i>ACS Omega</i> , 2022 , 7, 12816-12824	3.9	0
704	Synergistic effect between boron containing metal-organic frameworks and light leading to enhanced CO ₂ cycloaddition with epoxides. <i>Chemical Engineering Journal</i> , 2022 , 437, 135363	14.7	1
703	A biocompatible bismuth based metal-organic framework as efficient light-sensitive drug carrier.. <i>Journal of Colloid and Interface Science</i> , 2022 , 617, 578-584	9.3	0
702	Space-confined growth of lead-free halide perovskite Cs ₃ Bi ₂ Br ₉ in MCM-41 molecular sieve as an efficient photocatalyst for CO ₂ reduction at the gas/solid condition under visible light. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121375	21.8	7
701	NiCoP-CeO composites for efficient electrochemical oxygen evolution.. <i>RSC Advances</i> , 2022 , 12, 13639-13644	3.6	4
700	Boosting H ₂ Production from BiVO Photoelectrochemical Biomass Fuel Cell by the Construction of a Bridge for Charge and Energy Transfer.. <i>Advanced Materials</i> , 2022 , e2201594	24	2
699	Intrinsic ferromagnetic triferroicity in bilayer T ₂ -VTe ₂ . <i>Applied Physics Letters</i> , 2022 , 120, 192903	3.4	0
698	Molten-salt assisted synthesis of Cu clusters modified TiO ₂ with oxygen vacancies for efficient photocatalytic reduction of CO ₂ to CO. <i>Chemical Engineering Journal</i> , 2022 , 445, 136718	14.7	2
697	In situ observation of photo-induced shortening of single Au nanorod for plasmon-enhanced formic acid dehydrogenation 2022 , 100014		
696	Electronic Properties of Defective Janus MoSSe Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 4807-4814	6.4	1
695	Modulating electronic structure of ternary NiMoV LDH nanosheet array induced by doping engineering to promote urea oxidation reaction. <i>Chemical Engineering Journal</i> , 2021 , 430, 133100	14.7	9
694	Single-valley state in a two-dimensional antiferromagnetic lattice. <i>Physical Review B</i> , 2021 , 104,	3.3	1
693	Targeted Regulation of the Electronic States of Nickel Toward the Efficient Electrosynthesis of Benzonitrile and Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56140-56150	9.5	3
692	Spontaneous valley polarization in two-dimensional organometallic lattices. <i>Physical Review B</i> , 2021 , 104,	3.3	2
691	Enhanced photocatalytic driven hydroxylation of phenylboric acid to phenol over pyrenetetrasulfonic acid intercalated ZnAl-LDHs.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 455-462	9.3	0
690	Two-dimensional transition metal borides as high activity and selectivity catalysts for ammonia synthesis. <i>Nanoscale</i> , 2021 , 13, 17331-17339	7.7	4
689	Steric effects in the hydrogen evolution reaction based on the TMX active center: Fe-BHT as a case study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25239-25245	3.6	2

688	Intertwined ferroelectricity and topological state in two-dimensional multilayer. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	3
687	Antiferromagnetic ferroelastic multiferroics in single-layer VOX (X = Cl, Br) predicted from first-principles. <i>Applied Physics Letters</i> , 2021 , 119, 173103	3.4	2
686	Nanostructure and functional group engineering of black phosphorus via plasma treatment for CO ₂ photoreduction. <i>Journal of CO₂ Utilization</i> , 2021 , 54, 101745	7.6	2
685	Engineering antiferromagnetic topological insulator by strain in two-dimensional rare-earth pnictide EuCd ₂ Sb ₂ . <i>Applied Physics Letters</i> , 2021 , 119, 173105	3.4	1
684	Intrinsic valley polarization and anomalous valley hall effect in single-layer 2H-FeCl ₂ 2021 , 1, 56-56		3
683	Plasmon-Mediated Nitrobenzene Hydrogenation with Formate as the Hydrogen Donor Studied at a Single-Particle Level. <i>ACS Catalysis</i> , 2021 , 11, 3801-3809	13.1	15
682	Atomically dispersed cobalt-based species anchored on polythiophene as an efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2021 , 545, 148943	6.7	9
681	Activating electrocatalytic hydrogen evolution performance of two-dimensional MSi ₂ N ₄ (M=Mo,W): A theoretical prediction. <i>Physical Review Materials</i> , 2021 , 5,	3.2	8
680	Investigation and Practical Application of Silica Nanoparticles Composite Underwater Repairing Materials. <i>Energies</i> , 2021 , 14, 2423	3.1	0
679	Ferroelastic-ferroelectric multiferroics in a bilayer lattice. <i>Physical Review B</i> , 2021 , 103,	3.3	13
678	Oxygen vacancy enhancing CO ₂ electrochemical reduction to CO on Ce-doped ZnO catalysts. <i>Surfaces and Interfaces</i> , 2021 , 23, 100923	4.1	6
677	Intrinsic triferroicity in a two-dimensional lattice. <i>Physical Review B</i> , 2021 , 103,	3.3	5
676	In-situ growth of Ti ₃ C ₂ @MIL-NH ₂ composite for highly enhanced photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2021 , 411, 128446	14.7	14
675	2D/2D heterostructure of ultrathin BiVO ₄ /Ti ₃ C ₂ nanosheets for photocatalytic overall Water splitting. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119855	21.8	32
674	TiO ₂ /Ti ₃ C ₂ as an efficient photocatalyst for selective oxidation of benzyl alcohol to benzaldehyde. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119885	21.8	38
673	Enhancing Electrocatalytic N ₂ Conversion to NH ₃ by MnO ₂ Ultralong Nanowires with Oxygen Vacancies. <i>Journal of Photocatalysis</i> , 2021 , 2, 140-146	0.8	
672	Substrate-dependent ALD of Cu _x on TiO ₂ and its performance in photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2021 , 405, 126654	14.7	13
671	Tailoring the composition and structure of Ni ₃ S ₂ by introduction of Co towards high efficiency energy storage device. <i>Chemical Engineering Journal</i> , 2021 , 403, 126285	14.7	19

670	Boosting the electrocatalytic HER performance of Ni ₃ N-V ₂ O ₃ via the interface coupling effect. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119590	21.8	35
669	Large valley-polarized state in single-layer NbX ₂ (X = S, Se): Theoretical prediction. <i>Nano Research</i> , 2021 , 14, 834-839	10	12
668	Bias-Free Solar Water Splitting by Tetragonal Zircon BiVO ₄ Nanocrystal Photocathode and Monoclinic Scheelite BiVO ₄ Nanoporous Photoanode. <i>Advanced Functional Materials</i> , 2021 , 31, 2008656	15.6	19
667	Valley polarization caused by crystalline symmetry breaking. <i>Materials Horizons</i> , 2021 , 8, 244-249	14.4	2
666	Band Structure Controlled Zn _{1-x} CdxS Solid Solution for Photocatalytic Hydrogen Production Improvement via Appropriately Enhancing Oxidation Capacity. <i>Solar Rrl</i> , 2021 , 5, 2000685	7.1	3
665	Tuning the Conduction Band Potential of Bi-based Semiconductors Using a Combination of Organic Ligands. <i>ChemSusChem</i> , 2021 , 14, 892-897	8.3	1
664	Boron containing metal-organic framework for highly selective photocatalytic production of HO by promoting two-electron O reduction. <i>Materials Horizons</i> , 2021 , 8, 2842-2850	14.4	3
663	A magnetic topological insulator in two-dimensional EuCdBi: giant gap with robust topology against magnetic transitions. <i>Materials Horizons</i> , 2021 , 8, 956-961	14.4	5
662	Efficient nitric oxide reduction to ammonia on a metal-free electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5434-5441	13	19
661	H ₄ ,4,4-graphyne with double Dirac points as high-efficiency bifunctional electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4082-4090	13	8
660	Single-Layer Bi: A Multifunctional Semiconductor with Ferroelectricity, Ultrahigh Carrier Mobility, and Negative Poisson's Ratio. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
659	Plasma-induced black bismuth tungstate as a photon harvester for photocatalytic carbon dioxide conversion. <i>New Journal of Chemistry</i> , 2021 , 45, 1993-2000	3.6	3
658	Intercorrelated ferroelectrics in 2D van der Waals materials. <i>Materials Horizons</i> , 2021 , 8, 1683-1689	14.4	11
657	Nonvolatile Controlling Valleytronics by Ferroelectricity in 2H-VSe ₂ /Sc ₂ CO ₂ van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2802-2809	3.8	3
656	Single-atom catalysts of TM ₂ porphyrin for alkali oxygen batteries: reaction mechanism and universal design principle. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16998-17005	13	1
655	Out-of-plane ferroelectricity and multiferroicity in elemental bilayer phosphorene, arsenene, and antimonene. <i>Applied Physics Letters</i> , 2021 , 118, 012905	3.4	6
654	High-Throughput Screening of Synergistic Transition Metal Dual-Atom Catalysts for Efficient Nitrogen Fixation. <i>Nano Letters</i> , 2021 , 21, 1871-1878	11.5	66
653	Electronic Properties of Monolayer and van der Waals Bilayer of Janus TiClI. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2245-2251	6.4	2

652	Light-Promoted CO ₂ Conversion from Epoxides to Cyclic Carbonates at Ambient Conditions over a Bi-Based Metal-Organic Framework. <i>ACS Catalysis</i> , 2021 , 11, 1988-1994	13.1	28
651	Constructing Surface Plasmon Resonance on BiWO ₆ to Boost High-Selective CO Reduction for Methane. <i>ACS Nano</i> , 2021 , 15, 3529-3539	16.7	28
650	Quantum spin Hall effect in antiferromagnetic topological heterobilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	2
649	Light-Induced In Situ Formation of a Nonmetallic Plasmonic MoS ₂ /MoO ₃ Heterostructure with Efficient Charge Transfer for CO Reduction and SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10047-10053	9.5	21
648	Constructing Ni ₃ C/2D g-C ₃ N ₄ Photocatalyst and the Internal Catalytic Mechanism Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100171	1.6	
647	Two-dimensional valleytronic semiconductor with spontaneous spin and valley polarization in single-layer Cr ₂ Se ₃ . <i>Physical Review B</i> , 2021 , 104,	3.3	5
646	Two-dimensional π conjugated metal-organic framework Fe ₃ (hexaiminotriphenylene) ₂ as a photo-Fenton like catalyst for highly efficient degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2021 , 290, 120029	21.8	19
645	Valley-Contrasting Physics in Single-Layer CrSiN and CrSiP. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8341-8346	6.4	8
644	Valley-related multiple Hall effect in monolayer VSi ₂ P ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	12
643	Unique Dual-Sites Boosting Overall CO Photoconversion by Hierarchical Electron Harvesters. <i>Small</i> , 2021 , 17, e2103796	11	17
642	Stable valley-layer coupling and design principle in 2D lattice. <i>Applied Physics Letters</i> , 2021 , 119, 073101	3.4	1
641	Probing the Mechanism of Plasmon-Enhanced Ammonia Borane Methanolysis on a CuAg Alloy at a Single-Particle Level. <i>ACS Catalysis</i> , 2021 , 11, 10814-10823	13.1	9
640	Accelerated Photoreduction of CO ₂ to CO over a Stable Heterostructure with a Seamless Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39523-39532	9.5	12
639	Coronene-Based 2D Metal-Organic Frameworks: A New Family of Promising Single-Atom Catalysts for Nitrogen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20870-20876	3.8	1
638	Robust Intrinsic Multiferroicity in a FeHfSe Layer. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8882-8888	3.8	0
637	Nitrogen vacancy enhanced photocatalytic selective oxidation of benzyl alcohol in g-C ₃ N ₄ . <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 37782-37782	6.7	5
636	Exploring deep effects of atomic vacancies on activating CO ₂ photoreduction via rationally designing indium oxide photocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 422, 129888	14.7	31
635	Design and synthesis of BiVO ₄ @CuOx as a photo assisted Fenton-like catalyst for efficient degradation of tetracycline. <i>Surfaces and Interfaces</i> , 2021 , 26, 101380	4.1	1

634	In situ integration of Fe ₃ N@Co ₄ N@CoFe alloy nanoparticles as efficient and stable electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2021 , 395, 139218	6.7	1
633	Enhanced singlet oxygen production over a photocatalytic stable metal organic framework composed of porphyrin and Ag. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 300-306	9.3	4
632	Ag/AgCl as an efficient plasmonic photocatalyst for greenhouse gaseous methane oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106435	6.8	0
631	Surface Fluorination Engineering of NiFe Prussian Blue Analogue Derivatives for Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5142-5152	9.5	20
630	Host dependent electrocatalytic hydrogen evolution of Ni/TiO ₂ composites. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6325-6334	13	2
629	Promoting Electrocatalytic Reduction of CO to C ₂ H ₄ Production by Inhibiting C ₂ H ₄ OH Desorption from Cu ₂ O/C Composite.. <i>Small</i> , 2021 , e2105212	11	4
628	Solar driven high efficiency hydrogen evolution catalyzed by surface engineered ultrathin carbon nitride. <i>New Journal of Chemistry</i> , 2020 , 44, 19314-19322	3.6	0
627	Photostable Ag(I)-Based Metal-Organic Framework: Synthesis, Structure, and Photocatalytic Selective Oxidation Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 16127-16131	5.1	6
626	Oxygen-Vacancy-Enhanced Singlet Oxygen Production for Selective Photocatalytic Oxidation. <i>ChemSusChem</i> , 2020 , 13, 3488-3494	8.3	20
625	Trifunctional Electrocatalysts with High Efficiency for the Oxygen Reduction Reaction, Oxygen Evolution Reaction, and Na-O Battery in Heteroatom-Doped Janus Monolayer MoSSe. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24066-24073	9.5	17
624	High-temperature quantum anomalous Hall insulator in two-dimensional Bi ₂ ON. <i>Applied Physics Letters</i> , 2020 , 116, 162402	3.4	2
623	Molybdenum Nitride Electrocatalysts for Hydrogen Evolution More Efficient than Platinum/Carbon: MoN/CeO ₂ @Nickel Foam. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29153-29161	9.5	11
622	Plasmon-induced dehydrogenation of formic acid on Pd-dotted Ag@Au hexagonal nanoplates and single-particle study. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119226	21.8	21
621	Visualizing ultrasmall silica@TAB hybrid nanoparticles for generating high photoluminescence. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6413-6421	7.1	1
620	Stacking-dependent topological phase in bilayer MBi ₂ Te ₄ (M=Ge,Sn,Pb). <i>Physical Review B</i> , 2020 , 101,	3.3	5
619	Prediction of two-dimensional antiferromagnetic ferroelasticity in an AgF monolayer. <i>Nanoscale Horizons</i> , 2020 , 5, 1386-1393	10.8	18
618	Surface plasmon resonance and defects on tungsten oxides synergistically boost high-selective CO ₂ reduction for ethylene. <i>Applied Materials Today</i> , 2020 , 20, 100744	6.6	11
617	Co ₃ (hexaiminotriphenylene) ₂ : A conductive two-dimensional π conjugated metal-organic framework for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119295	21.8	36

616	Intrinsic anomalous valley Hall effect in single-layer Nb3I8. <i>Physical Review B</i> , 2020 , 102,	3.3	34
615	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , 2020 , 7, 2431-2438	14.4	3
614	Valley polarization in monolayer CrX2 (X = S, Se) with magnetically doping and proximity coupling. <i>New Journal of Physics</i> , 2020 , 22, 033002	2.9	16
613	In-situ hydroxyl modification of monolayer black phosphorus for stable photocatalytic carbon dioxide conversion. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118760	21.8	76
612	TlO/WTe van der Waals heterostructure with tunable multiple band alignments. <i>Journal of Chemical Physics</i> , 2020 , 152, 074703	3.9	1
611	Synthesis of Synergistic Nitrogen-Doped NiMoO4/Ni3N Heterostructure for Implementation of an Efficient Alkaline Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2440-2449	6.1	12
610	Antiferromagnetic Topological Insulator with Nonsymmorphic Protection in Two Dimensions. <i>Physical Review Letters</i> , 2020 , 124, 066401	7.4	21
609	Electrodeposition of NiFe layered double hydroxide on Ni3S2 nanosheets for efficient electrocatalytic water oxidation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8659-8666	6.7	19
608	One-step synthesis of Co-doped 1T-MoS2 nanosheets with efficient and stable HER activity in alkaline solutions. <i>Materials Chemistry and Physics</i> , 2020 , 244, 122642	4.4	26
607	Synthesis of novel cubic Ni2Mo3N and its electronic structure regulation by vanadium doping towards high-efficient HER electrocatalyst. <i>Electrochimica Acta</i> , 2020 , 337, 135689	6.7	6
606	CuO Nanoparticles with Both {100} and {111} Facets for Enhancing the Selectivity and Activity of CO Electroreduction to Ethylene. <i>Advanced Science</i> , 2020 , 7, 1902820	13.6	97
605	Accelerating the Hole Mobility of Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution via 2D/2D Heterojunction Structural Advantages and Ni(OH)2 Characteristic. <i>Solar Rrl</i> , 2020 , 4, 1900538	7.1	17
604	ZnO nanorod decorated by Au-Ag alloy with greatly increased activity for photocatalytic ethylene oxidation. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1613-1621	11.3	9
603	Silver-based visible light-responsive photocatalysts. <i>Interface Science and Technology</i> , 2020 , 415-452	2.3	3
602	Prediction of intrinsic electrocatalytic activity for hydrogen evolution reaction in Ti4X3 (X = C, N). <i>Journal of Catalysis</i> , 2020 , 387, 12-16	7.3	15
601	High-efficient electrocatalytic overall water splitting over vanadium doped hexagonal Ni0.2Mo0.8N. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118330	21.8	65
600	Two-Dimensional Ferroelastic Semiconductors in NbSiTe and NbGeTe with Promising Electronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 497-503	6.4	16
599	Self-doped p-n junctions in two-dimensional In2X3 van der Waals materials. <i>Materials Horizons</i> , 2020 , 7, 504-510	14.4	21

598	W supported on g-CN manifests high activity and selectivity for N ₂ electroreduction to NH ₃ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1378-1385	13	49
597	Improving the HER activity of Ni ₃ FeN to convert the superior OER electrocatalyst to an efficient bifunctional electrocatalyst for overall water splitting by doping with molybdenum. <i>Electrochimica Acta</i> , 2020 , 333, 135488	6.7	20
596	Excited-State Properties of Janus Transition-Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1667-1673	3.8	8
595	Janus Bi ₂ XYZ monolayers for light harvesting and energy conversion from first-principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113823	3	2
594	Plasma treated Bi ₂ WO ₆ ultrathin nanosheets with oxygen vacancies for improved photocatalytic CO ₂ reduction. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 597-602	6.8	38
593	Solar-driven plasmonic tungsten oxides as catalyst enhancing ethanol dehydration for highly selective ethylene production. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118517	21.8	24
592	Holey graphitic carbon nitride (g-CN) supported bifunctional single atom electrocatalysts for highly efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118521	21.8	61
591	Plasma-induced defect engineering: Boosted the reverse water gas shift reaction performance with electron trap. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 814-821	9.3	14
590	An All-Organic D-A System for Visible-Light-Driven Overall Water Splitting. <i>Small</i> , 2020 , 16, e2003914	11	41
589	Preparation of flower-like ZnO@ZnS core-shell structure enhances photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26967-26978	6.7	21
588	Preparation of Defect-Related Luminescent Mesoporous Silica Nanoparticle as Potential Detectable Drug Carrier. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 7362-7368	1.3	1
587	Ni ₃ B as a highly efficient and selective catalyst for the electrosynthesis of hydrogen peroxide. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119371	21.8	24
586	How to make an efficient gas-phase heterogeneous CO ₂ hydrogenation photocatalyst. <i>Energy and Environmental Science</i> , 2020 , 13, 3054-3063	35.4	20
585	Dual-Mode On-to-Off Modulation of Plasmon-Induced Transparency and Coupling Effect in Patterned Graphene-Based Terahertz Metasurface. <i>Nanoscale Research Letters</i> , 2020 , 15, 1	5	164
584	Electronic properties of Janus MXY/graphene (M = Mo, W; X □ Y = S, Se) van der Waals structures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 25675-25684	3.6	6
583	Promising valleytronic materials with strong spin-valley coupling in two-dimensional MN ₂ X ₂ (M = Mo, W; X = F, H). <i>Applied Physics Letters</i> , 2020 , 117, 172405	3.4	4
582	Enhancing the Photoelectrochemical Water Oxidation Reaction of BiVO ₄ Photoanode by Employing Carbon Spheres as Electron Reservoirs. <i>ACS Catalysis</i> , 2020 , 10, 13031-13039	13.1	18
581	Review of First-Principles Studies of TiO ₂ : Nanocluster, Bulk, and Material Interface. <i>Catalysts</i> , 2020 , 10, 972	4	3

580	Nitrogen-free TMS ₄ -centers in metal-organic frameworks for ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20047-20053	13	20
579	Lead-Free Halide Perovskite Cs Bi Sb I (x 0.3) Possessing the Photocatalytic Activity for Hydrogen Evolution Comparable to that of (CH ₃ NH ₃)PbI ₃ . <i>Advanced Materials</i> , 2020 , 32, e2001344	24	42
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