

# Ying Dai

## 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.

511 papers	28,921 citations	88 h-index	151 g-index
535 ext. papers	33,684 ext. citations	7.4 avg, IF	7.58 L-index

#	Paper	IF	Citations
511	Photocatalytic Selective Oxidation of HMF Coupled with H <sub>2</sub> Evolution on Flexible Ultrathin g-C <sub>3</sub> N <sub>4</sub> Nanosheets with Enhanced N $\pi$ Interaction. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1919-1929	13.1	12
510	Synthesis of photocatalytic hybrid nanostructures <b>2022</b> ,		
509	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> , <b>2022</b> , 13, 527-535	6.4	2
508	Strain-assisted in-situ formed oxygen defective WO <sub>3</sub> film for photothermal-synergistic reverse water gas shift reaction and single-particle study. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134199	14.7	0
507	Stress-induced BiVO <sub>4</sub> photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 304, 121012	21.8	5
506	Improved photocatalytic CO <sub>2</sub> and epoxides cycloaddition via the synergistic effect of Lewis acidity and charge separation over Zn modified UiO-bpydc. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 301, 120793	31.8	7
505	Photococatalytic anticancer performance of naked Ag/AgCl nanoparticles. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131265	14.7	3
504	Excited-State Properties of CuInPS Monolayer as Photocatalyst for Water Splitting.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 1972-1978	6.4	0
503	Plasmon-Enhanced Water Activation for Hydrogen Evolution from Ammonia-Borane Studied at a Single-Particle Level. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3558-3565	13.1	3
502	Strain Adjustment Realizes the Photocatalytic Overall Water Splitting on Tetragonal Zircon BiVO <sub>4</sub> .. <i>Advanced Science</i> , <b>2022</b> , e2105299	13.6	6
501	Hydrogen adsorption behavior on AXenes Na <sub>2</sub> N and K <sub>2</sub> N: a first-principles study. <i>Materials Research Express</i> , <b>2022</b> , 9, 045501	1.7	0
500	A biocompatible bismuth based metal-organic framework as efficient light-sensitive drug carrier.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 617, 578-584	9.3	0
499	Space-confined growth of lead-free halide perovskite Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> in MCM-41 molecular sieve as an efficient photocatalyst for CO <sub>2</sub> reduction at the gas/solid condition under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121375	21.8	7
498	Boosting H <sub>2</sub> Production from BiVO <sub>4</sub> Photoelectrochemical Biomass Fuel Cell by the Construction of a Bridge for Charge and Energy Transfer.. <i>Advanced Materials</i> , <b>2022</b> , e2201594	24	2
497	Free-Standing Nanoarrays with Energetic Electrons and Active Sites for Efficient Plasmon-Driven Ammonia Synthesis.. <i>Small</i> , <b>2022</b> , e2201269	11	2
496	Electronic Properties of Defective Janus MoSSe Monolayer. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 13, 4807-4814	6.4	1
495	Nitrogen-incorporation activates NiFeO catalysts for efficiently boosting oxygen evolution activity and stability of BiVO <sub>4</sub> photoanodes. <i>Nature Communications</i> , <b>2021</b> , 12, 6969	17.4	11

494	Single-valley state in a two-dimensional antiferromagnetic lattice. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
493	Targeted Regulation of the Electronic States of Nickel Toward the Efficient Electrosynthesis of Benzonitrile and Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 56140-56150	9.5	3
492	Spontaneous valley polarization in two-dimensional organometallic lattices. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
491	Two-dimensional transition metal borides as high activity and selectivity catalysts for ammonia synthesis. <i>Nanoscale</i> , <b>2021</b> , 13, 17331-17339	7.7	4
490	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> , <b>2021</b> , 23, 25239-25245	3.6	2
489	Intertwined ferroelectricity and topological state in two-dimensional multilayer. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	3
488	Antiferromagnetic ferroelastic multiferroics in single-layer VOX (X = Cl, Br) predicted from first-principles. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 173103	3.4	2
487	Intrinsic valley polarization and anomalous valley hall effect in single-layer 2H-FeCl <sub>2</sub> <b>2021</b> , 1, 56-56		3
486	Plasmon-Mediated Nitrobenzene Hydrogenation with Formate as the Hydrogen Donor Studied at a Single-Particle Level. <i>ACS Catalysis</i> , <b>2021</b> , 11, 3801-3809	13.1	15
485	Atomically dispersed cobalt-based species anchored on polythiophene as an efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , <b>2021</b> , 545, 148943	6.7	9
484	Activating electrocatalytic hydrogen evolution performance of two-dimensional MSi <sub>2</sub> N <sub>4</sub> (M=Mo,W): A theoretical prediction. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	8
483	Defect-engineered three-dimensional vanadium diselenide microflowers/nanosheets on carbon cloth by chemical vapor deposition for high-performance hydrogen evolution reaction. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	2
482	Ferroelastic-ferroelectric multiferroics in a bilayer lattice. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	13
481	Intrinsic triferroicity in a two-dimensional lattice. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
480	In-situ growth of Ti <sub>3</sub> C <sub>2</sub> @MIL-NH <sub>2</sub> composite for highly enhanced photocatalytic H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128446	14.7	14
479	2D/2D heterostructure of ultrathin BiVO <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> nanosheets for photocatalytic overall Water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 285, 119855	21.8	32
478	TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> as an efficient photocatalyst for selective oxidation of benzyl alcohol to benzaldehyde. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119885	21.8	38
477	Enhancing Electrocatalytic N <sub>2</sub> Conversion to NH <sub>3</sub> by MnO <sub>2</sub> Ultralong Nanowires with Oxygen Vacancies. <i>Journal of Photocatalysis</i> , <b>2021</b> , 2, 140-146	0.8	

- 476 Tailoring the composition and structure of Ni<sub>3</sub>S<sub>2</sub> by introduction of Co towards high efficiency energy storage device. *Chemical Engineering Journal*, **2021**, 403, 126285 14.7 19
- 475 Large valley-polarized state in single-layer NbX<sub>2</sub> (X = S, Se): Theoretical prediction. *Nano Research*, **2021**, 14, 834-839 10 12
- 474 Bias-Free Solar Water Splitting by Tetragonal Zircon BiVO<sub>4</sub> Nanocrystal Photocathode and Monoclinic Scheelite BiVO<sub>4</sub> Nanoporous Photoanode. *Advanced Functional Materials*, **2021**, 31, 2008656 15.6 19
- 473 Valley polarization caused by crystalline symmetry breaking. *Materials Horizons*, **2021**, 8, 244-249 14.4 2
- 472 The synergy of thermal exfoliation and phosphorus doping in g-C<sub>3</sub>N<sub>4</sub> for improved photocatalytic H<sub>2</sub> generation. *International Journal of Hydrogen Energy*, **2021**, 46, 3595-3604 6.7 11
- 471 Tuning the Conduction Band Potential of Bi-based Semiconductors Using a Combination of Organic Ligands. *ChemSusChem*, **2021**, 14, 892-897 8.3 1
- 470 Interlayer coupling effect in van der Waals heterostructures of transition metal dichalcogenides. *Frontiers of Physics*, **2021**, 16, 1 3.7 3
- 469 Boron containing metal-organic framework for highly selective photocatalytic production of HO by promoting two-electron O reduction. *Materials Horizons*, **2021**, 8, 2842-2850 14.4 3
- 468 Efficient nitric oxide reduction to ammonia on a metal-free electrocatalyst. *Journal of Materials Chemistry A*, **2021**, 9, 5434-5441 13 19
- 467 H<sub>4</sub>,4,4-graphyne with double Dirac points as high-efficiency bifunctional electrocatalysts for water splitting. *Journal of Materials Chemistry A*, **2021**, 9, 4082-4090 13 8
- 466 Single-Layer Bi: A Multifunctional Semiconductor with Ferroelectricity, Ultrahigh Carrier Mobility, and Negative Poisson's Ratio. *Physical Review Applied*, **2021**, 15, 4.3 1
- 465 Nonvolatile Controlling Valleytronics by Ferroelectricity in 2H-VSe<sub>2</sub>/Sc<sub>2</sub>CO<sub>2</sub> van der Waals Heterostructure. *Journal of Physical Chemistry C*, **2021**, 125, 2802-2809 3.8 3
- 464 Progress of structural and electronic properties of diamond: a mini review. *Functional Diamond*, **2021**, 1, 150-159 7
- 463 Single-atom catalysts of TM-porphyrin for alkali oxygen batteries: reaction mechanism and universal design principle. *Journal of Materials Chemistry A*, **2021**, 9, 16998-17005 13 1
- 462 High-Throughput Screening of Synergistic Transition Metal Dual-Atom Catalysts for Efficient Nitrogen Fixation. *Nano Letters*, **2021**, 21, 1871-1878 11.5 66
- 461 Electronic Properties of Monolayer and van der Waals Bilayer of Janus TiClI. *Journal of Physical Chemistry Letters*, **2021**, 12, 2245-2251 6.4 2
- 460 Light-Promoted CO<sub>2</sub> Conversion from Epoxides to Cyclic Carbonates at Ambient Conditions over a Bi-Based Metal-Organic Framework. *ACS Catalysis*, **2021**, 11, 1988-1994 13.1 28
- 459 Constructing Surface Plasmon Resonance on BiWO<sub>3</sub> to Boost High-Selective CO Reduction for Methane. *ACS Nano*, **2021**, 15, 3529-3539 16.7 28

458	Quantum spin Hall effect in antiferromagnetic topological heterobilayers. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
457	Construction of New Active Sites: Cu Substitution Enabled Surface Frustrated Lewis Pairs over Calcium Hydroxyapatite for CO Hydrogenation. <i>Advanced Science</i> , <b>2021</b> , 8, e2101382	13.6	4
456	Two-dimensional valleytronic semiconductor with spontaneous spin and valley polarization in single-layer Cr <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	5
455	Two-dimensional $\pi$ conjugated metal-organic framework Fe <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> as a photo-Fenton like catalyst for highly efficient degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 290, 120029	21.8	19
454	Valley-Contrasting Physics in Single-Layer CrSiN and CrSiP. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 8341-8346	6.4	8
453	Valley-related multiple Hall effect in monolayer VSi <sub>2</sub> P <sub>4</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	12
452	Stable valley-layer coupling and design principle in 2D lattice. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 073101	3.4	1
451	Probing the Mechanism of Plasmon-Enhanced Ammonia Borane Methanolysis on a CuAg Alloy at a Single-Particle Level. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10814-10823	13.1	9
450	Effect of point defects on electronic and excitonic properties in Janus-MoSSe monolayer. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
449	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> , <b>2021</b> , 125, 20870-20876	3.8	1
448	Robust Intrinsic Multiferroicity in a FeHfSe Layer. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 8882-8888	8.8	0
447	Nitrogen vacancy enhanced photocatalytic selective oxidation of benzyl alcohol in g-C <sub>3</sub> N <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 37782-37782	6.7	5
446	Borophosphene: A potential anchoring material for lithium-sulfur batteries. <i>Applied Surface Science</i> , <b>2021</b> , 562, 150157	6.7	6
445	Design and synthesis of BiVO <sub>4</sub> @CuOx as a photo assisted Fenton-like catalyst for efficient degradation of tetracycline. <i>Surfaces and Interfaces</i> , <b>2021</b> , 26, 101380	4.1	1
444	In situ integration of Fe <sub>3</sub> N@Co <sub>4</sub> N@CoFe alloy nanoparticles as efficient and stable electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , <b>2021</b> , 395, 139218	6.7	1
443	Enhanced singlet oxygen production over a photocatalytic stable metal organic framework composed of porphyrin and Ag. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 300-306	9.3	4
442	Ag/AgCl as an efficient plasmonic photocatalyst for greenhouse gaseous methane oxidation. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106435	6.8	0
441	Surface Fluorination Engineering of NiFe Prussian Blue Analogue Derivatives for Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5142-5152	9.5	20

440	Host dependent electrocatalytic hydrogen evolution of Ni/TiO <sub>2</sub> composites. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6325-6334	13	2
439	Promoting Electrocatalytic Reduction of CO to C <sub>2</sub> H <sub>4</sub> Production by Inhibiting C <sub>2</sub> H <sub>4</sub> OH Desorption from Cu <sub>2</sub> O/C Composite.. <i>Small</i> , <b>2021</b> , e2105212	11	4
438	Photostable Ag(I)-Based Metal-Organic Framework: Synthesis, Structure, and Photocatalytic Selective Oxidation Properties. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 16127-16131	5.1	6
437	Oxygen-Vacancy-Enhanced Singlet Oxygen Production for Selective Photocatalytic Oxidation. <i>ChemSusChem</i> , <b>2020</b> , 13, 3488-3494	8.3	20
436	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 &amp; Interfaces</i> , <b>2020</b> , 12, 24066-24073	9.5	17
435	High-temperature quantum anomalous Hall insulator in two-dimensional Bi <sub>2</sub> ON. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 162402	3.4	2
434	Molybdenum Nitride Electrocatalysts for Hydrogen Evolution More Efficient than Platinum/Carbon: MoN/CeO@Nickel Foam. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 29153-29161	9.5	11
433	Plasmon-induced dehydrogenation of formic acid on Pd-dotted Ag@Au hexagonal nanoplates and single-particle study. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119226	21.8	21
432	Stacking-dependent topological phase in bilayer MBi <sub>2</sub> Te <sub>4</sub> (M=Ge, Sn, Pb). <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
431	Co <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> : A conductive two-dimensional $\pi$ conjugated metal-organic framework for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119295	21.8	36
430	Intrinsic anomalous valley Hall effect in single-layer Nb <sub>3</sub> Bi <sub>8</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	34
429	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , <b>2020</b> , 7, 2431-2438	14.4	3
428	Valley polarization in monolayer CrX <sub>2</sub> (X = S, Se) with magnetically doping and proximity coupling. <i>New Journal of Physics</i> , <b>2020</b> , 22, 033002	2.9	16
427	Stacking-Independent Ferromagnetism in Bilayer VI with Half-Metallic Characteristic. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2158-2164	6.4	17
426	TlO/WTe van der Waals heterostructure with tunable multiple band alignments. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 074703	3.9	1
425	Synthesis of Synergistic Nitrogen-Doped NiMoO <sub>4</sub> /Ni <sub>3</sub> N Heterostructure for Implementation of an Efficient Alkaline Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2440-2449	6.1	12
424	Antiferromagnetic Topological Insulator with Nonsymmorphic Protection in Two Dimensions. <i>Physical Review Letters</i> , <b>2020</b> , 124, 066401	7.4	21
423	One-step synthesis of Co-doped 1T-MoS <sub>2</sub> nanosheets with efficient and stable HER activity in alkaline solutions. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 244, 122642	4.4	26



422	Synthesis of novel cubic Ni <sub>2</sub> Mo <sub>3</sub> N and its electronic structure regulation by vanadium doping towards high-efficient HER electrocatalyst. <i>Electrochimica Acta</i> , <b>2020</b> , 337, 135689	6.7	6
421	Prediction of intrinsic electrocatalytic activity for hydrogen evolution reaction in Ti <sub>4</sub> X <sub>3</sub> (X = C, N). <i>Journal of Catalysis</i> , <b>2020</b> , 387, 12-16	7.3	15
420	Two-Dimensional Ferroelastic Semiconductors in NbSiTe and NbGeTe with Promising Electronic Properties. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 497-503	6.4	16
419	Self-doped p <sub>n</sub> junctions in two-dimensional In <sub>2</sub> X <sub>3</sub> van der Waals materials. <i>Materials Horizons</i> , <b>2020</b> , 7, 504-510	14.4	21
418	W supported on g-CN manifests high activity and selectivity for N <sub>2</sub> electroreduction to NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1378-1385	13	49
417	Improving the HER activity of Ni <sub>3</sub> FeN to convert the superior OER electrocatalyst to an efficient bifunctional electrocatalyst for overall water splitting by doping with molybdenum. <i>Electrochimica Acta</i> , <b>2020</b> , 333, 135488	6.7	20
416	Excited-State Properties of Janus Transition-Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1667-1673	3.8	8
415	Electrical Control of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque-Induced Magnetization Switching. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900782	6.4	6
414	Janus Bi <sub>2</sub> XYZ monolayers for light harvesting and energy conversion from first-principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 117, 113823	3	2
413	Holey graphitic carbon nitride (g-CN) supported bifunctional single atom electrocatalysts for highly efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118521	21.8	61
412	Ni <sub>3</sub> B as a highly efficient and selective catalyst for the electrosynthesis of hydrogen peroxide. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 279, 119371	21.8	24
411	How to make an efficient gas-phase heterogeneous CO <sub>2</sub> hydrogenation photocatalyst. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3054-3063	35.4	20
410	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> , <b>2020</b> , 22, 25675-25684	3.6	6
409	Promising valleytronic materials with strong spin-valley coupling in two-dimensional MN <sub>2</sub> X <sub>2</sub> (M = Mo, W; X = F, H). <i>Applied Physics Letters</i> , <b>2020</b> , 117, 172405	3.4	4
408	Enhancing the Photoelectrochemical Water Oxidation Reaction of BiVO <sub>4</sub> Photoanode by Employing Carbon Spheres as Electron Reservoirs. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13031-13039	13.1	18
407	Exciton manipulation in rippled transition metal dichalcogenides. <i>Nanoscale</i> , <b>2020</b> , 12, 21124-21130	7.7	4
406	Review of First-Principles Studies of TiO <sub>2</sub> : Nanocluster, Bulk, and Material Interface. <i>Catalysts</i> , <b>2020</b> , 10, 972	4	3
405	Nitrogen-free TMS <sub>4</sub> -centers in metal-organic frameworks for ammonia synthesis. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20047-20053	13	20

404	Lead-Free Halide Perovskite Cs Bi Sb I (x 0.3) Possessing the Photocatalytic Activity for Hydrogen Evolution Comparable to that of (CH <sub>3</sub> NH <sub>3</sub> )PbI <sub>3</sub> . <i>Advanced Materials</i> , <b>2020</b> , 32, e2001344	24	42
403	Two-Dimensional Valleytronics in Single-Layer t-ZrNY (Y = Cl, Br) Predicted from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 20598-20604	3.8	2
402	Prediction of single-layer TiVI <sub>6</sub> as a promising two-dimensional valleytronic semiconductor with spontaneous valley polarization. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13220-13225	7.1	7
401	Highly effective and selective molecular nanowire catalysts for hydrogen and ammonia synthesis. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 26075-26084	13	6
400	In situ extract nucleate sites for the growth of free-standing carbon nitride films on various substrates. <i>Catalysis Today</i> , <b>2020</b> , 340, 92-96	5.3	3
399	Photoexcited charge carrier behaviors in solar energy conversion systems from theoretical simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2020</b> , 10, e1441	7.9	3
398	Design and synthesis of porous M-ZnO/CeO <sub>2</sub> microspheres as efficient plasmonic photocatalysts for nonpolar gaseous molecules oxidation: Insight into the role of oxygen vacancy defects and M=Ag, Au nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118151	21.8	71
397	Broken-Gap Type-III Band Alignment in WTe <sub>2</sub> /HfS <sub>2</sub> van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23089-23095	3.8	28
396	Monolayer HfTeSe: A Promising Two-Dimensional Photovoltaic Material for Solar Cells with High Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37901-37907	9.5	17
395	Metal-Organic Framework/Polythiophene Derivative: Neuronlike S-Doped Carbon 3D Structure with Outstanding Sodium Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37850-37858 <sup>12</sup>	9.5	12
394	Ag <sub>2</sub> ZnSnS <sub>4</sub> /Mo-mesh photoelectrode prepared by electroplating for efficient photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1647-1657	13	21
393	The mirror asymmetry induced nontrivial properties of polar WSSe/MoSSe heterostructures. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 125003	1.8	11
392	Accelerated electrocatalytic hydrogen evolution on non-noble metal containing trinickel nitride by introduction of vanadium nitride. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5513-5521	13	46
391	Insight into iron group transition metal phosphides (Fe <sub>2</sub> P, Co <sub>2</sub> P, Ni <sub>2</sub> P) for improving photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 330-336	21.8	78
390	Enhanced photocatalytic hydrogen evolution of CdWO <sub>4</sub> through polar organic molecule modification. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 4754-4763	6.7	12
389	Janus Chromium Dichalcogenide Monolayers with Low Carrier Recombination for Photocatalytic Overall Water-Splitting under Infrared Light. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4186-4192	3.8	28
388	Synthesis of a WO <sub>3</sub> photocatalyst with high photocatalytic activity and stability using synergetic internal Fe <sup>3+</sup> doping and superficial Pt loading for ethylene degradation under visible-light irradiation. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 652-658	5.5	57
387	A Janus MoSSe monolayer: a superior and strain-sensitive gas sensing material. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1099-1106	13	106



- 386 Achieving high energy density for lithium-ion battery anodes by Si/C nanostructure design. *Journal of Materials Chemistry A*, **2019**, 7, 2165-2171 13 75
- 385 Two-dimensional materials with intrinsic auxeticity: progress and perspectives. *Nanoscale*, **2019**, 11, 11413-11428 13 75
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250	MoTe <sub>2</sub> is a good match for Ge by preserving quantum spin Hall phase. <i>Nano Research</i> , <b>2017</b> , 10, 2823-2832	3.2	6
249	Insights into the effect of inner polarization and multiple Ag-O units on high-efficient Ag-based photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 211-218	21.8	15
248	Design of new photovoltaic systems based on two-dimensional group-IV monochalcogenides for high performance solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24145-24152	13	41
247	Platinum electrocatalysts with plasmonic nano-cores for photo-enhanced oxygen-reduction. <i>Nano Energy</i> , <b>2017</b> , 41, 233-242	17.1	28
246	Precisely locate Pd-Polypyrrole on TiO <sub>2</sub> for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 25195-25202	6.7	20
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237	Schottky barrier and band edge engineering via the interfacial structure and strain for the Pt/TiO heterostructure. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 18750-18756	3.6	11
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233	Highly efficient and noble metal-free NiS modified MnxCd <sub>1-x</sub> S solid solutions with enhanced photocatalytic activity for hydrogen evolution under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 282-288	21.8	114
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128	Fast-generation of Ag <sub>3</sub> PO <sub>4</sub> concave microcrystals from electrochemical oxidation of bulk silver sheet. <i>CrystEngComm</i> , <b>2013</b> , 15, 5070	3.3	27
127	Dirac Cones in Two-Dimensional Lattices: Janugraphene and Chlorographene. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2471-2476	6.4	22
126	Cu <sub>2</sub> (OH)PO <sub>4</sub> , a Near-Infrared-Activated Photocatalyst. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4910-4913	3.6	29
125	Relative photooxidation and photoreduction activities of the {100}, {101}, and {001} surfaces of anatase TiO <sub>2</sub> . <i>Langmuir</i> , <b>2013</b> , 29, 13647-54	4	72
124	Insights into the Role of Surface Distortion in Promoting the Separation and Transfer of Photogenerated Carriers in Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 24496-24502	3.8	30
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122	Tunable topological surface and realization of insulating massive Dirac fermion state in Bi <sub>2</sub> Te <sub>2</sub> Se with co-substitution. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 114-120	7.1	3
121	Engineering intriguing electronic and magnetic properties in novel one-dimensional staircase-like metallocene wires. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 941-946	7.1	19
120	Electronic and magnetic properties of one dimensional sandwich polymers: [(Ge <sub>5</sub> ) <sup>TM</sup> ][ <sup>TM</sup> = Ti, V, Cr, Mn, Fe). <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4565	7.1	7
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118	Enhanced photocatalytic H <sub>2</sub> production on hierarchical rutile TiO <sub>2</sub> microspheres. <i>RSC Advances</i> , <b>2013</b> , 3, 5156	3.7	10
117	Tunable electronic and dielectric behavior of GaS and GaSe monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7098-105	3.6	145

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111	Many-body effects in silicene, silicane, germanene and germanane. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 8789-94	3.6	112
110	Fullerene Interfaced with a TiO <sub>2</sub> (110) Surface May Not Form an Efficient Photovoltaic Heterojunction: First-Principles Investigation of Electronic Structures. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2223-2229	6.4	35
109	Tailoring AgI nanoparticles for the assembly of AgI/BiOI hierarchical hybrids with size-dependent photocatalytic activities. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7131	13	109
108	Investigation of magnetic properties induced by group-V element in doped ZnO. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5208-14	3.6	30
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106	Optical Transition and Photocatalytic Performance of d1 Metallic Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5593-5598	3.8	30
105	First-principles study of one-dimensional sandwich wires [(P)TM][TM = Ti, V, Cr, Mn, Fe, Co). <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 395503	1.8	1
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