

Lianzhou Wang

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.

562
papers

33,387
citations

99
h-index

158
g-index

598
ext. papers

39,177
ext. citations

10.9
avg, IF

7.93
L-index

#	Paper	IF	Citations
562	Interconnected N-doped MXene spherical shells for highly efficient capacitive deionization. <i>Environmental Science: Nano</i> , 2022 , 9, 204-213	7.1	1
561	Nanosphere lithography: a versatile approach to develop transparent conductive films for optoelectronic applications.. <i>Advanced Materials</i> , 2022 , e2103842	24	5
560	Small amines bring big benefits to perovskite-based solar cells and light-emitting diodes. <i>Chem</i> , 2022 , 8, 351-383	16.2	6
559	Numerical research on the instabilities of CLT propeller wake. <i>Ocean Engineering</i> , 2022 , 243, 110305	3.9	10
558	Nickel dual-atom catalysts for the selective electrocatalytic debromination of tribromoacetic acid as a green chemistry process. <i>Chemical Engineering Journal</i> , 2022 , 427, 131719	14.7	4
557	One-step supramolecular preorganization constructed crinkly graphitic carbon nitride nanosheets with enhanced photocatalytic activity. <i>Journal of Materials Science and Technology</i> , 2022 , 104, 155-162	9.1	10
556	Epitaxial growth of an atom-thin layer on a LiNiMnO cathode for stable Li-ion battery cycling.. <i>Nature Communications</i> , 2022 , 13, 1565	17.4	5
555	Photoelectrocatalytic hydrogen peroxide production based on transition-metal-oxide semiconductors. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1204-1215	11.3	2
554	Ligand engineering of perovskite quantum dots for efficient and stable solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 69, 626-648	12	3
553	Copper single-atom catalyst as a high-performance electrocatalyst for nitrate-ammonium conversion.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128892	12.8	1
552	Modal analysis of the propeller wake under the heavy loading condition. <i>Physics of Fluids</i> , 2022 , 34, 055107	10.7	9
551	Machine Learning Guided Dopant Selection for Metal Oxide based Photoelectrochemical Water Splitting: The Case Study of Fe O and CuO.. <i>Advanced Materials</i> , 2021 , e2106776	24	6
550	Boosting the photocatalytic hydrogen production performance of graphitic carbon nitride nanosheets by tailoring the cyano groups. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 495-495	9.3	3
549	Vacancy defect engineering of BiVO photoanodes for photoelectrochemical water splitting. <i>Nanoscale</i> , 2021 , 13, 17989-18009	7.7	12
548	Revisiting solar hydrogen production through photovoltaic-electrocatalytic and photoelectrochemical water splitting. <i>Frontiers in Energy</i> , 2021 , 15, 596-599	2.6	5
547	Surface Chemistry Engineering of Perovskite Quantum Dots: Strategies, Applications, and Perspectives. <i>Advanced Materials</i> , 2021 , e2105958	24	25
546	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal-Organic Framework Glasses for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	5

545	Electrochemical Surface Restructuring of Phosphorus-Doped Carbon@MoP Electrocatalysts for Hydrogen Evolution. <i>Nano-Micro Letters</i> , 2021 , 13, 215	19.5	9
544	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. <i>Science</i> , 2021 , 374, 621-625	33.3	29
543	Metal-Organic Framework-Based Materials for Solar Water Splitting. <i>Small Science</i> , 2021 , 1, 2000074		16
542	Converting natural gas: quantum-sized bismuth vanadate holds the key for selective photocatalytic oxidation of methane. <i>Science China Chemistry</i> , 2021 , 64, 686-687	7.9	
541	Photoelectrochemical Hydrogen Evolution 2021 , 107-127		
540	Modified phase average algorithm for the wake of a propeller. <i>Physics of Fluids</i> , 2021 , 33, 035146	4.4	14
539	The role of tungsten-related elements for improving the electrochemical performances of cathode materials in lithium ion batteries. <i>Tungsten</i> , 2021 , 3, 245-259	4.6	4
538	PSi@SiO _x /Nano-Ag composite derived from silicon cutting waste as high-performance anode material for Li-ion batteries. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125480	12.8	14
537	Perovskite crystals redissolution strategy for affordable, reproducible, efficient and stable perovskite photovoltaics. <i>Materials Today</i> , 2021 , 50, 199-199	21.8	14
536	All-Climate Aluminum-Ion Batteries Based on Binder-Free MOF-Derived FeS@C/CNT Cathode. <i>Nano-Micro Letters</i> , 2021 , 13, 159	19.5	6
535	Nanoconfined Topochemical Conversion from MXene to Ultrathin Non-Layered TiN Nanomesh toward Superior Electrocatalysts for Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2101360	11	7
534	Homogeneous dual-site P lattice doping in CdS quantum rods for visible-light photocatalytic water splitting. <i>Chemical Engineering Science</i> , 2021 , 238, 116594	4.4	7
533	Bifunctional photoelectrochemical process for humic acid degradation and hydrogen production using multi-layered p-type CuO photoelectrodes with plasmonic Au@TiO ₂ . <i>Journal of Hazardous Materials</i> , 2021 , 402, 123533	12.8	14
532	Interlayer Space Engineering of MXenes for Electrochemical Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2021 , 27, 1921-1940	4.8	15
531	Scalable fabrication and active site identification of MOF shell-derived nitrogen-doped carbon hollow frameworks for oxygen reduction. <i>Journal of Materials Science and Technology</i> , 2021 , 66, 186-192 ^{9.1}		16
530	Minimizing Voltage Losses in Perovskite Solar Cells. <i>Small Structures</i> , 2021 , 2, 2000050	8.7	21
529	Recent progress of minimal voltage losses for high-performance perovskite photovoltaics. <i>Nano Energy</i> , 2021 , 81, 105634	17.1	20
528	ASnX ₃ Better than Pb-based Perovskite. <i>Nano Select</i> , 2021 , 2, 159-186	3.1	1

527	Visible-Light Responsive TiO ₂ -Based Materials for Efficient Solar Energy Utilization. <i>Advanced Energy Materials</i> , 2021 , 11, 2003303	21.8	36
526	Bias effect on surface chemical states of CH ₃ NH ₃ PbBr ₃ hybrid perovskite single crystal: Decreasing CH ₃ NH ₂ molecular defect. <i>Applied Surface Science</i> , 2021 , 542, 148536	6.7	1
525	ZIF-8 derived hollow carbon to trap polysulfides for high performance lithium-sulfur batteries. <i>Nanoscale</i> , 2021 , 13, 11086-11092	7.7	5
524	Role of oxygen vacancy in metal oxide based photoelectrochemical water splitting. <i>EcoMat</i> , 2021 , 3, e12075	9.4	14
523	Constructing an n/n+ homojunction in a monolithic perovskite film for boosting charge collection in inverted perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2021 , 14, 4048-4058	35.4	29
522	Efficient photocatalytic destruction of recalcitrant micropollutants using graphitic carbon nitride under simulated sunlight irradiation. <i>Environmental Science and Ecotechnology</i> , 2021 , 5, 100079	7.4	20
521	Identification of embedded nanotwins at c-Si/a-Si:H interface limiting the performance of high-efficiency silicon heterojunction solar cells. <i>Nature Energy</i> , 2021 , 6, 194-202	62.3	17
520	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. <i>Joule</i> , 2021 , 5, 344-359	27.8	39
519	1D-2D Synergistic MXene-Nanotubes Hybrids for Efficient Perovskite Solar Cells. <i>Small</i> , 2021 , 17, e2101925	12.5	11
518	Propeller-duct interaction on the wake dynamics of a ducted propeller. <i>Physics of Fluids</i> , 2021 , 33, 074102	4.4	15
517	Stable Interfaces in a Sodium Metal-Free, Solid-State Sodium-Ion Battery with Gradient Composite Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39355-39362	9.5	1
516	Interfacial Linkage and Carbon Encapsulation Enable Full Solution-Printed Perovskite Photovoltaics with Prolonged Lifespan. <i>Angewandte Chemie</i> , 2021 , 133, 23928	3.6	4
515	Cesium-doped Ti ₃ C ₂ T _x MXene for efficient and thermally stable perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100598	6.1	6
514	Numerical analysis of the wake dynamics of a propeller. <i>Physics of Fluids</i> , 2021 , 33, 095120	4.4	16
513	Sc, Ge co-doping NASICON boosts solid-state sodium ion batteries performance. <i>Energy Storage Materials</i> , 2021 , 40, 282-291	19.4	11
512	Interfacial Linkage and Carbon Encapsulation Enable Full Solution-Printed Perovskite Photovoltaics with Prolonged Lifespan. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23735-23742	16.4	13
511	Asymmetric structure engineering of polymeric carbon nitride for visible-light-driven reduction reactions. <i>Nano Energy</i> , 2021 , 87, 106168	17.1	7
510	Bismuth based photoelectrodes for solar water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 61, 517-530	12	11

509	Enhanced Safety and Performance of High-Voltage Solid-State Sodium Battery through Trilayer, Multifunctional Electrolyte Design. <i>Energy Storage Materials</i> , 2021 , 41, 8-13	19.4	6
508	Metal-free E-conjugated hybrid g-C ₃ N ₄ with tunable band structure for enhanced visible-light photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2021 , 87, 207-215	9.1	5
507	A Ti-OH bond breaking route for creating oxygen vacancy in titania towards efficient CO ₂ photoreduction. <i>Chemical Engineering Journal</i> , 2021 , 425, 131513	14.7	1
506	Rational strategies toward efficient and stable lead-free tin halide perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4107-4127	7.8	4
505	Simulation strategy of the full-scale ship resistance and propulsion performance. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1321-1342	4.5	4
504	Confining ultrafine tin monophosphide in Ti ₃ C ₂ T _x interlayers for rapid and stable sodium ion storage. <i>EScience</i> , 2021 , 1, 203-211		21
503	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170371	15.6	1
502	Numerical simulation of the wake instabilities of a propeller. <i>Physics of Fluids</i> , 2021 , 33, 125125	4.4	17
501	In Situ Formation of Oxygen Vacancies Achieving Near-Complete Charge Separation in Planar BiVO ₄ Photoanodes. <i>Advanced Materials</i> , 2020 , 32, e2001385	24	103
500	Inductive effect between atomically dispersed iridium and transition-metal hydroxide nanosheets enables highly efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020 , 395, 125149	14.7	32
499	A fast ionic conductor and stretchable solid electrolyte artificial interphase layer for Li metal protection in lithium batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155839	5.7	8
498	Identifying dual functions of rGO in a BiVO ₄ /rGO/NiFe-layered double hydroxide photoanode for efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13231-13240	13	26
497	Trilayer Nanomesh Films with Tunable Wettability as Highly Transparent, Flexible, and Recyclable Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2002556	15.6	15
496	Interconnected Graphene Hollow Shells for High-Performance Capacitive Deionization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29706-29716	9.5	4
495	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19434-19449	16.4	30
494	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. <i>Angewandte Chemie</i> , 2020 , 132, 19602-19617	3.6	4
493	Spontaneous surface/interface ligand-anchored functionalization for extremely high fill factor over 86% in perovskite solar cells. <i>Nano Energy</i> , 2020 , 75, 104929	17.1	33
492	Revealing the failure mechanism of transition-metal chalcogenides towards the copper current collector in secondary batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6569-6575	13	5

491	Thin-Layered Photocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 1910005	15.6	58
490	Post-redox engineering electron configurations of atomic thick C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118855	21.8	17
489	Water Splitting: In Situ Formation of Oxygen Vacancies Achieving Near-Complete Charge Separation in Planar BiVO ₄ Photoanodes (Adv. Mater. 26/2020). <i>Advanced Materials</i> , 2020 , 32, 2070198	24	2
488	Designing efficient BiFeO photoanodes via bulk and surface defect engineering. <i>Chemical Communications</i> , 2020 , 56, 9376-9379	5.8	6
487	Surface Degradation Mechanism on CH ₃ NH ₂ PbBr Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
486	Organic/inorganic hybrid perovskites: Game-changing candidates for solar fuel production. <i>Nano Energy</i> , 2020 , 71, 104647	17.1	24
485	Optoelectronic Devices: The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices (Adv. Energy Mater. 7/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070029	21.8	
484	Influence of Ice Size Parameter Variation on Hydrodynamic Performance of Podded Propulsor. <i>China Ocean Engineering</i> , 2020 , 34, 30-45	1.1	3
483	Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO for Improved Photocatalytic H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7230-7234	16.4	102
482	Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. <i>Advanced Energy Materials</i> , 2020 , 10, 1903930	21.8	61
481	Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO ₂ for Improved Photocatalytic H ₂ Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 7297-7301	3.6	27
480	Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithium-Rich Cathode Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1909192	15.6	62
479	Stabilizing High-voltage Cathode Materials for Next-generation Li-ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 24-32	2.2	8
478	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FaxPbI ₃ quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020 , 5, 79-88	62.3	237
477	Dimensionality-Controlled Surface Passivation for Enhancing Performance and Stability of Perovskite Solar Cells via Triethylenetetramine Vapor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6651-6661	9.5	18
476	Lattice distortion induced internal electric field in TiO photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , 2020 , 11, 2129	17.4	41
475	In Situ Formation of Interfacial Defects between Co-Based Spinel/Carbon Nitride Hybrids for Efficient CO ₂ Photoreduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5083-5094	6.1	10
474	Hollow Structure for Photocatalytic CO ₂ Reduction. <i>ChemNanoMat</i> , 2020 , 6, 881-888	3.5	21

473	Efficient sequential harvesting of solar light by heterogeneous hollow shells with hierarchical pores. <i>National Science Review</i> , 2020 , 7, 1638-1646	10.8	36
472	Red-mud based porous nanocatalysts for valorisation of municipal solid waste. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122711	12.8	19
471	Flexible solar-rechargeable energy system. <i>Energy Storage Materials</i> , 2020 , 32, 356-376	19.4	10
470	Recent advances of hollow-structured sulfur cathodes for lithium-sulfur batteries. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2517-2547	7.8	7
469	An ultrathin Al ₂ O ₃ bridging layer between CdS and ZnO boosts photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11031-11042	13	30
468	Separator coatings as efficient physical and chemical hosts of polysulfides for high-sulfur-loaded rechargeable lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020 , 44, 51-60	12	30
467	Boosting the performance of hybrid supercapacitors through redox electrolyte-mediated capacity balancing. <i>Nano Energy</i> , 2020 , 68, 104226	17.1	33
466	Hydroxyl-regulated BiOI nanosheets with a highly positive valence band maximum for improved visible-light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118390	21.8	41
465	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. <i>Organic Electronics</i> , 2020 , 77, 105524	3.5	9
464	Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. <i>Chemical Society Reviews</i> , 2020 , 49, 354-381	58.5	78
463	The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 1902256	21.8	27
462	Recent Advances of Metal-Oxide Photoanodes: Engineering of Charge Separation and Transportation toward Efficient Solar Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 1900509	7.1	19
461	Fabricating highly efficient heterostructured CuBi ₂ O ₄ photocathodes for unbiased water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2498-2504	13	26
460	Highly-conductive PEDOT:PSS hydrogel framework based hybrid fiber with high volumetric capacitance and excellent rate capability. <i>Electrochimica Acta</i> , 2020 , 334, 135530	6.7	15
459	Design of twin junction with solid solution interface for efficient photocatalytic H ₂ production. <i>Nano Energy</i> , 2020 , 69, 104410	17.1	34
458	Two-dimensional heterojunction SnS ₂ /SnO ₂ photoanode with excellent photoresponse up to near infrared region. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 207, 110342	6.4	6
457	Alkaline-earth bis(trifluoromethanesulfonimide) additives for efficient and stable perovskite solar cells. <i>Nano Energy</i> , 2020 , 69, 104412	17.1	33
456	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. <i>Advanced Materials</i> , 2020 , 32, e1904717	24	124

455	Luminescent europium-doped titania for efficiency and UV-stability enhancement of planar perovskite solar cells. <i>Nano Energy</i> , 2020 , 69, 104392	17.1	31
454	Hollow structured cathode materials for rechargeable batteries. <i>Science Bulletin</i> , 2020 , 65, 496-512	10.6	18
453	Two-Dimensional Material-Functionalized Separators for High-Energy-Density Metal-Sulfur and Metal-Based Batteries. <i>ChemSusChem</i> , 2020 , 13, 1366-1378	8.3	14
452	Engineering Active Fe Sites on Nickel-Iron Layered Double Hydroxide through Component Segregation for Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2020 , 13, 811-818	8.3	35
451	Hybridization of ZSM-5 with Spinel Oxides for Biomass Vapour Upgrading. <i>ChemCatChem</i> , 2020 , 12, 1403-1412	5.5	5
450	MXene derived TiS ₂ nanosheets for high-rate and long-life sodium-ion capacitors. <i>Energy Storage Materials</i> , 2020 , 26, 550-559	19.4	57
449	A Freestanding 3D Heterostructure Film Stitched by MOF-Derived Carbon Nanotube Microsphere Superstructure and Reduced Graphene Oxide Sheets: A Superior Multifunctional Electrode for Overall Water Splitting and Zn-Air Batteries. <i>Advanced Materials</i> , 2020 , 32, e2003313	24	96
448	High-Performance Porous Silicon/Nanosilver Anodes from Industrial Low-Grade Silicon for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49080-49089	9.5	23
447	Reddish GaN:ZnO photoelectrode for improved photoelectrochemical solar water splitting. <i>Journal of Chemical Physics</i> , 2020 , 153, 024706	3.9	3
446	Biomimetic SnP Anchored on Carbon Nanotubes as an Anode for High-Performance Sodium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 8826-8837	16.7	56
445	Molten Salt Synthesis of Atomic Heterogeneous Catalysts: Old Chemistry for Advanced Materials. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 2942-2949	2.3	9
444	Heterostructure Films: A Freestanding 3D Heterostructure Film Stitched by MOF-Derived Carbon Nanotube Microsphere Superstructure and Reduced Graphene Oxide Sheets: A Superior Multifunctional Electrode for Overall Water Splitting and Zn-Air Batteries (Adv. Mater. 48/2020). <i>Advanced Materials</i> , 2020 , 32, e2003313	24	0
443	J-Aggregate-Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. <i>Angewandte Chemie</i> , 2020 , 132, 20240-20249	3.6	7
442	Single-Atom Ru-Implanted Metal-Organic Framework/MnO ₂ for the Highly Selective Oxidation of NO _x by Plasma Activation. <i>ACS Catalysis</i> , 2020 , 10, 10185-10196	13.1	26
441	Sulfur-based redox chemistry for electrochemical energy storage. <i>Coordination Chemistry Reviews</i> , 2020 , 422, 213445	23.2	11
440	Lithiation-Induced Vacancy Engineering of Co ₃ O ₄ with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , 2020 , 30, 2004172	15.6	63
439	Advances in materials for all-climate sodium-ion batteries. <i>EcoMat</i> , 2020 , 2, e12043	9.4	10
438	J-Aggregate-Based FRET Monitoring of Drug Release from Polymer Nanoparticles with High Drug Loading. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20065-20074	16.4	23

437	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21 %. <i>Angewandte Chemie</i> , 2020 , 132, 21166-21173	3.6	20
436	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21 . <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20980-20987	16.4	33
435	Bismuth-based photocatalysts for solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24307-24352	13	85
434	Halide Perovskite Single Crystals: Optoelectronic Applications and Strategical Approaches. <i>Energies</i> , 2020 , 13, 4250	3.1	10
433	Dual-Ion-Diffusion Induced Degradation in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2002342	15.6	39
432	Numerical and Experimental Study of Flow Field between the Main Hull and Demi-Hull of a Trimaran. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 975	2.4	3
431	Experiments and CFD for the propeller wake of a generic submarine operating near the surface. <i>Ocean Engineering</i> , 2020 , 206, 107304	3.9	27
430	An integrated thermoelectric-assisted photoelectrochemical system to boost water splitting. <i>Science Bulletin</i> , 2020 , 65, 1163-1169	10.6	10
429	Synchronous surface and bulk composition management for red-shifted light absorption and suppressed interfacial recombination in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9743-9752	13	13
428	Sn ₄ P ₃ @Porous carbon nanofiber as a self-supported anode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2020 , 461, 228116	8.9	31
427	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35641-35652	9.5	11
426	Enhanced CH ₄ selectivity in CO ₂ photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C ₃ N ₄ . <i>Nano Research</i> , 2019 , 12, 2749-2759	10	63
425	Metal-Organic Framework/Polythiophene Derivative: Neuronlike S-Doped Carbon 3D Structure with Outstanding Sodium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37850-37858	9.5	12
424	Electronic and optical properties of lead-free hybrid double perovskites for photovoltaic and optoelectronic applications. <i>Scientific Reports</i> , 2019 , 9, 718	4.9	55
423	Characterisation of lithium-ion battery anodes fabricated via in-situ Cu ₆ Sn ₅ growth on a copper current collector. <i>Journal of Power Sources</i> , 2019 , 415, 50-61	8.9	28
422	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Long-Term Stability of Lithium-Sulfur Batteries. <i>Small</i> , 2019 , 15, e1804578	11	22
421	Enhancing photocatalytic activity of tantalum nitride by rational suppression of bulk, interface and surface charge recombination. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 195-201	21.8	31
420	Carbon-vacancy modified graphitic carbon nitride: enhanced CO ₂ photocatalytic reduction performance and mechanism probing. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1556-1563	13	111

4 ¹⁹	Probing Facet-Dependent Surface Defects in MAPbI ₃ Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14144-14151	3.8	43
4 ¹⁸	An improved method to synthesize nanoscale graphene oxide using much less acid. <i>Materials Today Physics</i> , 2019 , 9, 100097	8	13
4 ¹⁷	Branched titania nanostructures for efficient energy conversion and storage: A review on design strategies, structural merits and multifunctionalities. <i>Nano Energy</i> , 2019 , 62, 791-809	17.1	24
4 ¹⁶	A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. <i>Advanced Energy Materials</i> , 2019 , 9, 1900872	21.8	35
4 ¹⁵	Improved CO ₂ photocatalytic reduction using a novel 3-component heterojunction. <i>Nano Energy</i> , 2019 , 62, 426-433	17.1	37
4 ¹⁴	Effect of water-based nanolubricant containing nano-TiO ₂ on friction and wear behaviour of chrome steel at ambient and elevated temperatures. <i>Wear</i> , 2019 , 426-427, 792-804	3.5	23
4 ¹³	Unlocking the potential of commercial carbon nanofibers as free-standing positive electrodes for flexible aluminum ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15123-15130	13	23
4 ¹²	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1231-1240	20.1	83
4 ¹¹	Gradient Sn-Doped Heteroepitaxial Film of Faceted Rutile TiO as an Electron Selective Layer for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19638-19646	9.5	19
4 ¹⁰	Recent progress of tungsten- and molybdenum-based semiconductor materials for solar-hydrogen production. <i>Tungsten</i> , 2019 , 1, 19-45	4.6	19
4 ⁰⁹	Boosting photoelectrochemical water splitting performance of Ta ₃ N ₅ nanorod array photoanodes by forming a dual co-catalyst shell. <i>Nano Energy</i> , 2019 , 59, 683-688	17.1	36
4 ⁰⁸	Bifacial Contact Junction Engineering for High-Performance Perovskite Solar Cells with Efficiency Exceeding 21. <i>Small</i> , 2019 , 15, e1900606	11	11
4 ⁰⁷	Enhanced efficacy of defect passivation and charge extraction for efficient perovskite photovoltaics with a small open circuit voltage loss. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9025-9033 ¹³		49
4 ⁰⁶	Crystal Facet Engineering of Photoelectrodes for Photoelectrochemical Water Splitting. <i>Chemical Reviews</i> , 2019 , 119, 5192-5247	68.1	285
4 ⁰⁵	Significant THz-wave absorption property in mixed δ and ϵ -APbI ₃ hybrid perovskite flexible thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019 , 12, 051003	2.4	9
4 ⁰⁴	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO ₂ Plates for Visible Light Photocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1901943	15.6	44
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4 ⁰²	Stacking-Layer-Number Dependence of Water Adsorption in 3D Ordered Close-Packed g-C ₃ N ₄ Nanosphere Arrays for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4587-4591	16.4	121

401	Stacking-Layer-Number Dependence of Water Adsorption in 3D Ordered Close-Packed g-C ₃ N ₄ Nanosphere Arrays for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 4635-4639	3.6	25
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