Lianzhou Wang

List of Publications by Citations

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	Titania-based photocatalysts□rystal growth, doping and heterostructuring. *Journal of Materials Chemistry*, **2010**, 20, 831-843		953
561	Two-dimensional graphene analogues for biomedical applications. *Chemical Society Reviews*, **2015**, 44, 2681-701	58.5	687
560	Redoxable nanosheet crystallites of MnO2 derived via delamination of a layered manganese oxide. *Journal of the American Chemical Society*, **2003**, 125, 3568-75	16.4	593
559	Recent advances in 2D materials for photocatalysis. *Nanoscale*, **2016**, 8, 6904-20	7.7	492
558	Titanium oxide nanosheets: graphene analogues with versatile functionalities. *Chemical Reviews*, **2014**, 114, 9455-86	68.1	482
557	Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. *Chemical Communications*, **2009**, 3452-4	5.8	433
556	Selective Breaking of Hydrogen Bonds of Layered Carbon Nitride for Visible Light Photocatalysis. *Advanced Materials*, **2016**, 28, 6471-7	24	390
555	Nanosized anatase TiO2 single crystals for enhanced photocatalytic activity. *Chemical Communications*, **2010**, 46, 755-7	5.8	375
554	In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1706923	15.6	361
553	Resistive Switching Behavior in Organic-Inorganic Hybrid CH3 NH3 PbI3-x Clx Perovskite for Resistive Random Access Memory Devices. *Advanced Materials*, **2015**, 27, 6170-5	24	354
552	Nitrogen-doped Ti 3 C 2 T x MXene electrodes for high-performance supercapacitors. *Nano Energy*, **2017**, 38, 368-376	17.1	348
551	Break-up of two-dimensional MnO2 nanosheets promotes ultrasensitive pH-triggered theranostics of cancer. *Advanced Materials*, **2014**, 26, 7019-26	24	342
550	Enhanced Photoactivity of Oxygen-Deficient Anatase TiO2 Sheets with Dominant {001} Facets. *Journal of Physical Chemistry C*, **2009**, 113, 21784-21788	3.8	341
549	Inorganic perovskite photocatalysts for solar energy utilization. *Chemical Society Reviews*, **2016**, 45, 5951-5984	58.9	318
548	Hollow Nanostructures for Photocatalysis: Advantages and Challenges. *Advanced Materials*, **2019**, 31, e1801369	24	305
547	Hollow mesoporous organosilica nanoparticles: a generic intelligent framework-hybridization approach for biomedicine. *Journal of the American Chemical Society*, **2014**, 136, 16326-34	16.4	299
546	Nitrogen doped Sr□aD□coupled with graphene sheets as photocatalysts for increased photocatalytic hydrogen production. *ACS Nano*, **2011**, 5, 3483-92	16.7	292

545	Crystal Facet Engineering of Photoelectrodes for Photoelectrochemical Water Splitting. *Chemical Reviews*, **2019**, 119, 5192-5247	68.1	285
544	Organic□inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. *Nano Research*, **2016**, 9, 692-702	10	283
543	New BiVO Dual Photoanodes with Enriched Oxygen Vacancies for Efficient Solar-Driven Water Splitting. *Advanced Materials*, **2018**, 30, e1800486	24	282
542	An Electrochemically Treated BiVO Photoanode for Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2017**, 56, 8500-8504	16.4	278
541	MoS2/Graphene Nanosheets from Commercial Bulky MoS2 and Graphite as Anode Materials for High Rate Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702383	21.8	275
540	Twins in Cd1□ZnxS solid solution: Highly efficient photocatalyst for hydrogen generation from water. *Energy and Environmental Science*, **2011**, 4, 1372	35.4	270
539	Preparation and Characterization of ZnO Clusters inside Mesoporous Silica. *Chemistry of Materials*, **2000**, 12, 1408-1413	9.6	267
538	Band-to-Band Visible-Light Photon Excitation and Photoactivity Induced by Homogeneous Nitrogen Doping in Layered Titanates. *Chemistry of Materials*, **2009**, 21, 1266-1274	9.6	259
537	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 15510-15524	9.5	256
536	Periodic mesoporous organosilica hollow spheres with tunable wall thickness. *Journal of the American Chemical Society*, **2006**, 128, 6320-1	16.4	252
535	Artificial photosynthesis as a frontier technology for energy sustainability. *Energy and Environmental Science*, **2013**, 6, 1074	35.4	251
534	Non-metal doping of transition metal oxides for visible-light photocatalysis. *Catalysis Today*, **2014**, 225, 111-135	5.3	243
533	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1□FAxPbI3 quantum dot solar cells with reduced phase segregation. *Nature Energy*, **2020**, 5, 79-88	62.3	237
532	Stable Hematite Nanosheet Photoanodes for Enhanced Photoelectrochemical Water Splitting. *Advanced Materials*, **2016**, 28, 6405-10	24	225
531	Addressing Toxicity of Lead: Progress and Applications of Low-Toxic Metal Halide Perovskites and Their Derivatives. *Advanced Energy Materials*, **2017**, 7, 1602512	21.8	217
530	A general, one-step and template-free synthesis of sphere-like zinc ferrite nanostructures with enhanced photocatalytic activity for dye degradation. *Journal of Colloid and Interface Science*, **2011**, 358, 102-8	9.3	217
529	Design of Photobioreactors for Mass Cultivation of Photosynthetic Organisms. *Engineering*, **2017**, 3, 318-329	9.7	209
528	An Innovative Freeze-Dried Reduced Graphene Oxide Supported SnS Cathode Active Material for Aluminum-Ion Batteries. *Advanced Materials*, **2017**, 29, 1606132	24	207

527	In situ growth of a ZnO nanowire network within a TiO(2) nanoparticle film for enhanced dye-sensitized solar cell performance. *Advanced Materials*, **2012**, 24, 5850-6	24	207
526	Composition-dependent photoluminescence intensity and prolonged recombination lifetime of perovskite CH3NH3PbBr(3-x)Cl(x) films. *Chemical Communications*, **2014**, 50, 11727-30	5.8	200
525	Shell-in-shell TiO2 hollow spheres synthesized by one-pot hydrothermal method for dye-sensitized solar cell application. *Energy and Environmental Science*, **2011**, 4, 3565	35.4	200
524	A Binder-Free and Free-Standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminum-Ion Batteries. *Advanced Materials*, **2018**, 30, 1703824	24	199
523	Synergistic crystal facet engineering and structural control of WO3 films exhibiting unprecedented photoelectrochemical performance. *Nano Energy*, **2016**, 24, 94-102	17.1	193
522	Positive and Negative Lattice Shielding Effects Co-existing in Gd (III) Ion Doped Bifunctional Upconversion Nanoprobes. *Advanced Functional Materials*, **2011**, 21, 4285-4294	15.6	187
521	Synthesis of anatase TiO2 rods with dominant reactive {010} facets for the photoreduction of CO2 to CH4 and use in dye-sensitized solar cells. *Chemical Communications*, **2011**, 47, 8361-3	5.8	185
520	Synthesis of phosphorus-doped graphene and its wide potential window in aqueous supercapacitors. *Chemistry - A European Journal*, **2015**, 21, 80-5	4.8	182
519	Nanosized Anatase TiO2 Single Crystals with Tunable Exposed (001) Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2011**, 21, 4167-4172	15.6	178
518	g-C3N4 based composite photocatalysts for photocatalytic CO2 reduction. *Catalysis Today*, **2018**, 300, 160-172	5.3	176
517	Fabrication of Controllable Ultrathin Hollow Shells by Layer-by-Layer Assembly of Exfoliated Titania Nanosheets on Polymer Templates. *Chemistry of Materials*, **2002**, 14, 4827-4832	9.6	175
516	Novel boron nitride hollow nanoribbons. *ACS Nano*, **2008**, 2, 2183-91	16.7	173
515	ZnO□dS@Cd Heterostructure for Effective Photocatalytic Hydrogen Generation. *Advanced Energy Materials*, **2012**, 2, 42-46	21.8	170
514	Two-dimensional non-carbonaceous materials-enabled efficient photothermal cancer therapy. *Nano Today*, **2016**, 11, 292-308	17.9	169
513	Stable CoSe2/carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. *Energy and Environmental Science*, **2018**, 11, 2341-2347	35.4	169
512	Hollow Anatase TiO2 Single Crystals and Mesocrystals with Dominant {101} Facets for Improved Photocatalysis Activity and Tuned Reaction Preference. *ACS Catalysis*, **2012**, 2, 1854-1859	13.1	162
511	Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. *Advanced Materials*, **2019**, 31, e1805367	24	160
510	Fabrication and Characterization of Multilayer Ultrathin Films of Exfoliated MnO2 Nanosheets and Polycations. *Chemistry of Materials*, **2003**, 15, 2873-2878	9.6	159

509	Review on areal capacities and long-term cycling performances of lithium sulfur battery at high sulfur loading. *Energy Storage Materials*, **2019**, 18, 289-310	19.4	159
508	Understanding the Roles of Oxygen Vacancies in Hematite-Based Photoelectrochemical Processes. *Angewandte Chemie - International Edition*, **2019**, 58, 1030-1034	16.4	159
507	Rational design of CdS@ZnO core-shell structure via atomic layer deposition for drastically enhanced photocatalytic H2 evolution with excellent photostability. *Nano Energy*, **2017**, 39, 183-191	17.1	156
506	Oriented Built-in Electric Field Introduced by Surface Gradient Diffusion Doping for Enhanced Photocatalytic H Evolution in CdS Nanorods. *Nano Letters*, **2017**, 17, 3803-3808	11.5	153
505	An Unusual Strong Visible-Light Absorption Band in Red Anatase TiO Photocatalyst Induced by Atomic Hydrogen-Occupied Oxygen Vacancies. *Advanced Materials*, **2018**, 30, 1704479	24	152
504	New Iron-Cobalt Oxide Catalysts Promoting BiVO4 Films for Photoelectrochemical Water Splitting. *Advanced Functional Materials*, **2018**, 28, 1802685	15.6	150
503	Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. *Journal of Materials Science and Technology*, **2017**, 33, 1-22	9.1	146
502	2D Porous TiO Single-Crystalline Nanostructure Demonstrating High Photo-Electrochemical Water Splitting Performance. *Advanced Materials*, **2018**, 30, e1705666	24	137
501	Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnO□CdS heterostructures. *Energy and Environmental Science*, **2011**, 4, 3976	35.4	133
500	Characterization of MCM-41 mesoporous molecular sieves containing copper and zinc and their catalytic performance in the selective oxidation of alcohols to aldehydes. *Microporous and Mesoporous Materials*, **2002**, 54, 113-126	5.3	129
499	A study of the tribological behaviour of TiO 2 nano-additive water-based lubricants. *Tribology International*, **2017**, 109, 398-408	4.9	128
498	Unique physicochemical properties of two-dimensional light absorbers facilitating photocatalysis. *Chemical Society Reviews*, **2018**, 47, 6410-6444	58.5	126
497	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. *Advanced Materials*, **2020**, 32, e1904717	24	124
496	Carbon-Coated Na Fe (P O) Cathode Material for High-Rate and Long-Life Sodium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1605535	24	123
495	Boron-doped graphitic carbon nitride nanosheets for enhanced visible light photocatalytic water splitting. *Dalton Transactions*, **2017**, 46, 10714-10720	4.3	122
494	Stacking-Layer-Number Dependence of Water Adsorption in 3D Ordered Close-Packed g-C N Nanosphere Arrays for Photocatalytic Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2019**, 58, 4587-4591	16.4	121
493	Activation of Photocatalytic Water Oxidation on N-Doped ZnO Bundle-like Nanoparticles under Visible Light. *Journal of Physical Chemistry C*, **2013**, 117, 4937-4942	3.8	120
492	N-Doped CsTaWO6 as a New Photocatalyst for Hydrogen Production from Water Splitting Under Solar Irradiation. *Advanced Functional Materials*, **2011**, 21, 126-132	15.6	120

491	Tin nanoparticles encapsulated in graphene backboned carbonaceous foams as high-performance anodes for lithium-ion and sodium-ion storage. *Nano Energy*, **2016**, 22, 232-240	17.1	119
490	Sandwich-Like Ultrathin TiS2 Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1901872	21.8	119
489	Facile synthesis of highly efficient one-dimensional plasmonic photocatalysts through Ag@Cu core-shell heteronanowires. *ACS Applied Materials & Interfaces*, **2014**, 6, 15716-25	9.5	119
488	Iodine doped anatase TiO2 photocatalyst with ultra-long visible light response: correlation between geometric/electronic structures and mechanisms. *Journal of Materials Chemistry*, **2009**, 19, 2822		119
487	Two-dimensional g-C3N4/Ca2Nb2TaO10 nanosheet composites for efficient visible light photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2017**, 202, 184-190	21.8	118
486	Synthesis of a Li-Mn-oxide with Disordered Layer Stacking through Flocculation of Exfoliated MnO2 Nanosheets, and Its Electrochemical Properties. *Chemistry of Materials*, **2003**, 15, 4508-4514	9.6	118
485	3D hierarchical rutile TiO2 and metal-free organic sensitizer producing dye-sensitized solar cells 8.6% conversion efficiency. *Scientific Reports*, **2014**, 4, 5769	4.9	114
484	Carbon-vacancy modified graphitic carbon nitride: enhanced CO2 photocatalytic reduction performance and mechanism probing. *Journal of Materials Chemistry A*, **2019**, 7, 1556-1563	13	111
483	Recent Progress on Integrated Energy Conversion and Storage Systems. *Advanced Science*, **2017**, 4, 1700104	15.8	109
482	Efficient Promotion of Anatase TiO2 Photocatalysis via Bifunctional Surface-Terminating TiOBN Structures. *Journal of Physical Chemistry C*, **2009**, 113, 12317-12324	3.8	109
481	Synthesis of rutile–anatase core–shell structured TiO2 for photocatalysis. *Journal of Materials Chemistry*, **2009**, 19, 6590		108
480	Bifunctional resistive switching behavior in an organolead halide perovskite based Ag/CH3NH3PbI3-xClx/FTO structure. *Journal of Materials Chemistry C*, **2016**, 4, 7824-7830	7.1	107
479	Au decorated hollow ZnO@ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. *Applied Catalysis B: Environmental*, **2019**, 244, 748-757	21.8	107
478	Understanding the Origin of Li2MnO3 Activation in Li-Rich Cathode Materials for Lithium-Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 7488-7496	15.6	104
477	Enhanced perovskite electronic properties via a modified lead(II) chloride Lewis acid–base adduct and their effect in high-efficiency perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 5195-5203	13	103
476	In Situ Formation of Oxygen Vacancies Achieving Near-Complete Charge Separation in Planar BiVO Photoanodes. *Advanced Materials*, **2020**, 32, e2001385	24	103
475	Tantalum (oxy)nitride based photoanodes for solar-driven water oxidation. *Journal of Materials Chemistry A*, **2016**, 4, 2783-2800	13	103
474	Template-free synthesis of Ta3N5 nanorod arrays for efficient photoelectrochemical water splitting. *Chemical Communications*, **2013**, 49, 3019-21	5.8	103

473	Photocatalytic TiO2/adsorbent nanocomposites prepared via wet chemical impregnation for wastewater treatment: A review. *Applied Catalysis A: General*, **2009**, 371, 1-9	5.1	103
472	Sulfur doped anatase TiO2 single crystals with a high percentage of {0 0 1} facets. *Journal of Colloid and Interface Science*, **2010**, 349, 477-83	9.3	103
471	Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO for Improved Photocatalytic H Evolution. *Angewandte Chemie - International Edition*, **2020**, 59, 7230-7234	16.4	102
470	Solar energy conversion on g-C3N4 photocatalyst: Light harvesting, charge separation, and surface kinetics. *Journal of Energy Chemistry*, **2018**, 27, 1111-1123	12	102
469	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. *Chemistry of Materials*, **2019**, 31, 5238-5244	9.6	102
468	Low-temperature synthesis of CdS/TiO2 composite photocatalysts: Influence of synthetic procedure on photocatalytic activity under visible light. *Journal of Molecular Catalysis A*, **2012**, 356, 53-60		102
467	Nanoparticles enwrapped with nanotubes: A unique architecture of CdS/titanate nanotubes for efficient photocatalytic hydrogen production from water. *Journal of Materials Chemistry*, **2011**, 21, 5134		102
466	TiO2 films with oriented anatase {001} facets and their photoelectrochemical behavior as CdS nanoparticle sensitized photoanodes. *Journal of Materials Chemistry*, **2011**, 21, 869-873		101
465	Multifunctional Graphene Oxide-based Triple Stimuli-Responsive Nanotheranostics. *Advanced Functional Materials*, **2014**, 24, 4386-4396	15.6	99
464	Preparation and characterization of sulfonated polyethersulfone for cation-exchange membranes. *Journal of Membrane Science*, **2011**, 368, 48-53	9.6	99
463	A general single-source route for the preparation of hollow nanoporous metal oxide structures. *Angewandte Chemie - International Edition*, **2009**, 48, 7048-51	16.4	99
462	Controllable growth of SnS2 nanostructures on nanocarbon surfaces for lithium-ion and sodium-ion storage with high rate capability. *Journal of Materials Chemistry A*, **2018**, 6, 1462-1472	13	97
461	Photocatalytic degradation of gaseous toluene over ZnAl2O4 prepared by different methods: a comparative study. *Journal of Hazardous Materials*, **2011**, 186, 2089-96	12.8	96
460	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. *Advanced Materials*, **2020**, 32, e2003313	24	96
459	Unique Advantages of Exfoliated 2D Nanosheets for Tailoring the Functionalities of Nanocomposites. *Journal of Physical Chemistry Letters*, **2014**, 5, 4149-61	6.4	95
458	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. *Journal of Materials Chemistry*, **2012**, 22, 15522		94
457	Self-Assembled Multilayers of Titania Nanoparticles and Nanosheets with Polyelectrolytes. *Chemistry of Materials*, **2003**, 15, 807-812	9.6	93
456	Fabrication of g-C3N4/Au/C-TiO2 Hollow Structures as Visible-Light-Driven Z-Scheme Photocatalysts with Enhanced Photocatalytic H2 Evolution. *ChemCatChem*, **2017**, 9, 3752-3761	5.2	92

455	Stable and low-cost mesoscopic CH3NH3PbI2 Br perovskite solar cells by using a thin poly(3-hexylthiophene) layer as a hole transporter. *Chemistry - A European Journal*, **2015**, 21, 434-9	4.8	92
454	CsPb(I Br1)3 solar cells. *Science Bulletin*, **2019**, 64, 1532-1539	10.6	92
453	New Binder-Free Metal Phosphide Carbon Felt Composite Anodes for Sodium-Ion Battery. *Advanced Energy Materials*, **2018**, 8, 1801197	21.8	90
452	Friction and wear characteristics of TiO 2 nano-additive water-based lubricant on ferritic stainless steel. *Tribology International*, **2018**, 117, 24-38	4.9	90
451	Comparative photocatalytic degradation of estrone in water by ZnO and TiO2 under artificial UVA and solar irradiation. *Chemical Engineering Journal*, **2012**, 213, 150-162	14.7	89
450	Inorganic Multilayer Films of Manganese Oxide Nanosheets and Aluminum Polyoxocations: Fabrication, Structure, and Electrochemical Behavior. *Chemistry of Materials*, **2005**, 17, 1352-1357	9.6	89
449	Enhanced CO2 photocatalytic reduction on alkali-decorated graphitic carbon nitride. *Applied Catalysis B: Environmental*, **2017**, 216, 146-155	21.8	88
448	Nitrogen-doped titania nanosheets towards visible light response. *Chemical Communications*, **2009**, 1383-5	5.8	85
447	Bismuth-based photocatalysts for solar energy conversion. *Journal of Materials Chemistry A*, **2020**, 8, 24307-24352	13	85
446	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. *ACS Energy Letters*, **2019**, 4, 1231-1240	20.1	83
445	Ultrathin hollow nanoshells of manganese oxide. *Chemical Communications*, **2004**, 1074-5	5.8	80
444	Transition from the Tetragonal to Cubic Phase of Organohalide Perovskite: The Role of Chlorine in Crystal Formation of CH3NH3PbI3 on TiO2 Substrates. *Journal of Physical Chemistry Letters*, **2015**, 6, 4379-84	6.4	79
443	Lithium and Sodium Storage on Graphitic Carbon Nitride. *Journal of Physical Chemistry C*, **2015**, 119, 21921-21927	3.8	79
442	Cubic CeO2 nanoparticles as mirror-like scattering layers for efficient light harvesting in dye-sensitized solar cells. *Chemical Communications*, **2012**, 48, 7386-8	5.8	79
441	Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. *Chemical Society Reviews*, **2020**, 49, 354-381	58.5	78
440	Photocatalytic degradation of gaseous toluene over Ag-doping TiO2 nanotube powder prepared by anodization coupled with impregnation method. *Chemosphere*, **2011**, 83, 674-9	8.4	77
439	Photocatalytic Hydrogen Production from Water Using N-Doped Ba5Ta4O15 under Solar Irradiation. *Journal of Physical Chemistry C*, **2011**, 115, 15674-15678	3.8	77
438	Synthesis of Ordered Cubic Periodic Mesoporous Organosilicas with Ultra-Large Pores. *Chemistry of Materials*, **2007**, 19, 1870-1876	9.6	77

437	High-rate lithium storage of anatase TiO2 crystals doped with both nitrogen and sulfur. *Chemical Communications*, **2013**, 49, 3461-3	5.8	75
436	Nitrogen and Phosphorous Co-Doped Graphene Monolith for Supercapacitors. *ChemSusChem*, **2016**, 9, 513-20	8.3	73
435	A new type of carbon nitride-based polymer composite for enhanced photocatalytic hydrogen production. *Chemical Communications*, **2014**, 50, 6762-4	5.8	73
434	Nanostructure sensitization of transition metal oxides for visible-light photocatalysis. *Beilstein Journal of Nanotechnology*, **2014**, 5, 696-710	3	73
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432	Boosting the efficiency of quantum dot sensitized solar cells up to 7.11% through simultaneous engineering of photocathode and photoanode. *Nano Energy*, **2015**, 13, 609-619	17.1	71
431	On the engineering part of solar hydrogen production from water splitting: Photoreactor design. *Chemical Engineering Science*, **2013**, 104, 125-146	4.4	71
430	Preparation of porous composite ion-exchange membranes for desalination application. *Journal of Materials Chemistry*, **2011**, 21, 7401		71
429	Bismuth oxychloride hollow microspheres with high visible light photocatalytic activity. *Nano Research*, **2016**, 9, 593-601	10	70
428	Photocatalytic water oxidation on F, N co-doped TiO2 with dominant exposed {001} facets under visible light. *Chemical Communications*, **2011**, 47, 11742-4	5.8	70
427	Layer-by-layer assembly and electrochemical properties of sandwiched film of manganese oxide nanosheet and carbon nanotube. *Carbon*, **2009**, 47, 1534-1542	10.4	70
426	Progress and Perspective in Low-Dimensional Metal Halide Perovskites for Optoelectronic Applications. *Solar Rrl*, **2018**, 2, 1700186	7.1	69
425	Low-temperature processed solar cells with formamidinium tin halide perovskite/fullerene heterojunctions. *Nano Research*, **2016**, 9, 1570-1577	10	69
424	An Electrochemically Treated BiVO4 Photoanode for Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie*, **2017**, 129, 8620-8624	3.6	67
423	Electrochemical and structural study of layered P2-type Na(2/3)Ni(1/3)Mn(2/3)O2 as cathode material for sodium-ion battery. *Chemistry - an Asian Journal*, **2015**, 10, 661-6	4.5	67
422	Scalable low-cost SnS(2) nanosheets as counter electrode building blocks for dye-sensitized solar cells. *Chemistry - A European Journal*, **2014**, 20, 8670-6	4.8	66
421	Drastically enhanced photocatalytic activity in nitrogen doped mesoporous TiO2 with abundant surface states. *Journal of Colloid and Interface Science*, **2009**, 334, 171-5	9.3	66
420	Improved photocatalytic activity of g-C3N4 derived from cyanamide–urea solution. *RSC Advances*, **2015**, 5, 8323-8328	3.7	65

419	Room-temperature synthesis of Cu(2-x)E (E = S, Se) nanotubes with hierarchical architecture as high-performance counter electrodes of quantum-dot-sensitized solar cells. *Chemistry - A European Journal*, **2015**, 21, 1055-63	4.8	65
418	An integrated photoelectrochemical-chemical loop for solar-driven overall splitting of hydrogen sulfide. *Angewandte Chemie - International Edition*, **2014**, 53, 4399-403	16.4	65
417	Preparation of porous ion-exchange membranes (IEMs) and their characterizations. *Journal of Membrane Science*, **2011**, 371, 37-44	9.6	65
416	Strategies for Efficient Solar Water Splitting Using Carbon Nitride. *Chemistry - an Asian Journal*, **2017**, 12, 1421-1434	4.5	63
415	Enhanced CH4 selectivity in CO2 photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C3N4. *Nano Research*, **2019**, 12, 2749-2759	10	63
414	Single-Crystalline Nanomesh Tantalum Nitride Photocatalyst with Improved Hydrogen-Evolving Performance. *Advanced Energy Materials*, **2018**, 8, 1701605	21.8	63
413	Lithiation-Induced Vacancy Engineering of Co3O4 with Improved Faradic Reactivity for High-Performance Supercapacitor. *Advanced Functional Materials*, **2020**, 30, 2004172	15.6	63
412	An Unusual Red Carbon Nitride to Boost the Photoelectrochemical Performance of Wide Bandgap Photoanodes. *Advanced Functional Materials*, **2018**, 28, 1805698	15.6	63
411	A hybrid photoelectrode with plasmonic Au@TiO2 nanoparticles for enhanced photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 20127-20133	13	62
410	Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithium-Rich Cathode Materials. *Advanced Functional Materials*, **2020**, 30, 1909192	15.6	62
409	Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. *Advanced Energy Materials*, **2020**, 10, 1903930	21.8	61
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407	Photoluminescence properties of lamellar aggregates of titania nanosheets accommodating rare earth ions. *Applied Physics Letters*, **2004**, 85, 4187-4189	3.4	61
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404	Thin-Layered Photocatalysts. *Advanced Functional Materials*, **2020**, 30, 1910005	15.6	58
403	Yolk-shell Si/C composites with multiple Si nanoparticles encapsulated into double carbon shells as lithium-ion battery anodes. *Journal of Energy Chemistry*, **2019**, 32, 124-130	12	58
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