

Licheng Sun

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.

777
papers

52,306
citations

110
h-index

197
g-index

825
ext. papers

57,740
ext. citations

8.5
avg, IF

8.02
L-index

#	Paper	IF	Citations
777	Effect of the Ancillary Ligand on the Performance of Heteroleptic Cu(I) Diimine Complexes as Dyes in Dye-Sensitized Solar Cells.. <i>ACS Applied Energy Materials</i> , 2022 , 5, 1460-1470	6.1	0
776	WO ₃ Nanosheet-Supported IrW Alloy for High-Performance Acidic Overall Water Splitting with Low Ir Loading. <i>ACS Applied Energy Materials</i> , 2022 , 5, 970-980	6.1	3
775	Sacrificial W Facilitates Self-Reconstruction with Abundant Active Sites for Water Oxidation.. <i>Small</i> , 2022 , e2107249	11	1
774	2D materials for solar fuels via artificial photosynthesis.. <i>National Science Review</i> , 2022 , 9, nwab116	10.8	3
773	Highly stable perovskite solar cells with a novel Ni-based metal organic complex as dopant-free hole-transporting material. <i>Journal of Energy Chemistry</i> , 2022 , 65, 312-318	12	1
772	Rubrene Nanoaggregate-Integrated CH ₃ NH ₃ PbI ₃ Bilayer Film: Role of Singlet Fission and Photon Upconversion. <i>ACS Applied Nano Materials</i> , 2022 , 5, 801-809	5.6	0
771	Promotion of the oxygen evolution performance of Ni-Fe layered hydroxides via the introduction of a proton-transfer mediator anion. <i>Science China Chemistry</i> , 2022 , 65, 382-390	7.9	3
770	Enhancement of Singlet Fission Yield by Hindering Excimer Formation in Perylene Film. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 396-403	3.8	0
769	NiCoO thin film prepared by electrochemical deposition as a hole-transport layer for efficient inverted perovskite solar cells.. <i>RSC Advances</i> , 2022 , 12, 12544-12551	3.7	0
768	Triggering the Lattice Oxygen Activation of Single-atomic Mo Sites Anchored Ni-Fe Oxyhydroxides Nanoarrays for Electrochemical Water Oxidation.. <i>Advanced Materials</i> , 2022 , e2202523	24	10
767	Intramolecular hydroxyl nucleophilic attack pathway by a polymeric water oxidation catalyst with single cobalt sites. <i>Nature Catalysis</i> , 2022 , 5, 414-429	36.5	6
766	In Situ Generating CsPbBr ₃ Nanocrystals on O-defective WO ₃ as Z-scheme and NIR-responsive Heterojunctions for Photocatalytic CO ₂ Reduction.. <i>ChemSusChem</i> , 2021 ,	8.3	7
765	Engineering Single-Atomic Ni-N-O Sites on Semiconductor Photoanodes for High-Performance Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	19
764	Switching Pathways of Triplet State Formation by Twisted Intramolecular Charge Transfer. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12518-12527	3.4	2
763	Engineering Lattice Oxygen Activation of Iridium Clusters Stabilized on Amorphous Bimetal Borides Array for Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	18
762	Exploration of electrocatalytic water oxidation properties of NiFe catalysts doped with nonmetallic elements (P, S, Se). <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 38992-38992	6.7	1
761	Toward efficient photochemistry from upper excited electronic states: Detection of long S lifetime of perylene. <i>Journal of Chemical Physics</i> , 2021 , 155, 191102	3.9	1

760	Two-Dimensional Defective Boron-Doped Niobic Acid Nanosheets for Robust Nitrogen Photofixation. <i>ACS Nano</i> , 2021 ,	16.7	5
759	Electronic Influence of the 2,2'-Bipyridine-6,6'-dicarboxylate Ligand in Ru-Based Molecular Water Oxidation Catalysts. <i>Inorganic Chemistry</i> , 2021 , 60, 1202-1207	5.1	3
758	Ultrafast spectroscopy reveals singlet fission, ionization and excimer formation in perylene film. <i>Scientific Reports</i> , 2021 , 11, 5220	4.9	8
757	Switching the O-O Bond Formation Pathways of Ru-pda Water Oxidation Catalyst by Third Coordination Sphere Engineering. <i>Research</i> , 2021 , 2021, 9851231	7.8	2
756	Helical Copper Redox Mediator with Low Electron Recombination for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5252-5259	8.3	3
755	Off-Set Interactions of Ruthenium-bda Type Catalysts for Promoting Water-Splitting Performance. <i>Angewandte Chemie</i> , 2021 , 133, 14625-14632	3.6	1
754	Thiophene-fused carbazole derivative dyes for high-performance dye-sensitized solar cells. <i>Tetrahedron</i> , 2021 , 88, 132124	2.4	3
753	Off-Set Interactions of Ruthenium-bda Type Catalysts for Promoting Water-Splitting Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14504-14511	16.4	6
752	Conformal Macroporous Inverse Opal Oxynitride-Based Photoanode for Robust Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7402-7413	16.4	28
751	Ni -rich NiFeBa as an Efficient Catalyst for Water Oxidation. <i>ChemSusChem</i> , 2021 , 14, 2516-2520	8.3	0
750	Metalloid Te-Doped Fe-Based Catalysts Applied for Electrochemical Water Oxidation. <i>ChemistrySelect</i> , 2021 , 6, 6154-6158	1.8	2
749	Stable Dye-Sensitized Solar Cells Based on Copper(II/I) Redox Mediators Bearing a Pentadentate Ligand. <i>Angewandte Chemie</i> , 2021 , 133, 16292-16299	3.6	2
748	Stable Dye-Sensitized Solar Cells Based on Copper(II/I) Redox Mediators Bearing a Pentadentate Ligand. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16156-16163	16.4	8
747	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. <i>Nature Communications</i> , 2021 , 12, 4587	17.4	98
746	A crosslinked polymer as dopant-free hole-transport material for efficient n-i-p type perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 55, 211-218	12	12
745	Switching O O bond formation mechanism between WNA and I2M pathways by modifying the Ru-bda backbone ligands of water-oxidation catalysts. <i>Journal of Energy Chemistry</i> , 2021 , 54, 815-821	12	9
744	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2021 , 133, 2004-2013	3.6	8
743	Tuning the O-O bond formation pathways of molecular water oxidation catalysts on electrode surfaces via second coordination sphere engineering. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 460-469	11.3	2

742	Revealing ultrafast relaxation dynamics in six-thiophene thin film and single crystal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112920	4.7	4
741	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1976-1985	16.4	20
740	Necessity of structural rearrangements for O-O bond formation between O5 and W2 in photosystem II. <i>Journal of Energy Chemistry</i> , 2021 , 57, 436-442	12	3
739	N-Bromosuccinimide as a p-type dopant for a Spiro-OMeTAD hole transport material to enhance the performance of perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 2294-2300	5.8	1
738	From Ru-bda to Ru-bds: a step forward to highly efficient molecular water oxidation electrocatalysts under acidic and neutral conditions. <i>Nature Communications</i> , 2021 , 12, 373	17.4	13
737	Metal-organic frameworks and their derivatives as electrocatalysts for the oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2021 , 50, 2663-2695	58.5	107
736	In Situ Induced Crystalline-Amorphous Heterophase Junction by K to Improve Photoelectrochemical Water Oxidation of BiVO ₄ . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2723-2733	9.5	5
735	Selective Electrochemical Alkaline Seawater Oxidation Catalyzed by Cobalt Carbonate Hydroxide Nanorod Arrays with Sequential Proton-Electron Transfer Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 905-913	8.3	7
734	Surface and bulk reconstruction of CoW sulfides during pH-universal electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11359-11369	13	8
733	Identification of M-NH ₂ -NH ₂ Intermediate and Rate Determining Step for Nitrogen Reduction with Bioinspired Sulfur-Bonded FeW Catalyst. <i>Angewandte Chemie</i> , 2021 , 133, 20494-20504	3.6	5
732	Molecular Engineering of Photocathodes based on Polythiophene Organic Semiconductors for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40602-40611	8.5	1
731	Selective Electro-oxidation of Alcohols to the Corresponding Aldehydes in Aqueous Solution via Cu(III) Intermediates from CuO Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11855-11861	8.3	5
730	Singlet Fission, Polaron Formation, and Energy Transfer in Indolo[3,2-b]carbazole Thin Films and Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18827-18833	3.8	0
729	Identification of M-NH-NH Intermediate and Rate Determining Step for Nitrogen Reduction with Bioinspired Sulfur-Bonded FeW Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20331-20341	16.4	18
728	Dye-sensitized photoanode decorated with pyridine additives for efficient solar water oxidation. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1352-1359	11.3	4
727	Numerical investigation and comparative analysis of nanofluid cooling enhancement for TEG and TEC systems. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101331	5.6	8
726	Supramolecular Co-adsorption on TiO ₂ to enhance the efficiency of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13697-13703	13	0
725	Remarkable synergy of borate and interfacial hole transporter on BiVO ₄ photoanodes for photoelectrochemical water oxidation. <i>Materials Advances</i> , 2021 , 2, 4323-4332	3.3	5

724	Bio-Inspired Water Oxidation Catalysts 2021 , 589-610		
723	Singlet fission from upper excited singlet states and polaron formation in rubrene film.. <i>RSC Advances</i> , 2021 , 11, 4639-4645	3.7	9
722	Investigation on the Extendibility of Self-Similar Heat Sink for Cooling Electrical Equipment With Varying Sizes. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021 , 11, 57-70	17	
721	Triazatruxene-based sensitizers for highly efficient solid-state dye-sensitized solar cells. <i>Solar Energy</i> , 2020 , 212, 1-5	6.8	3
720	Magnetizing lead-free halide double perovskites. <i>Science Advances</i> , 2020 , 6,	14.3	25
719	Upper Excited State Photophysics of Malachite Green in Solution and Films. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4293-4302	3.4	4
718	Ionic liquid doped organic hole transporting material for efficient and stable perovskite solar cells. <i>Physica B: Condensed Matter</i> , 2020 , 586, 412124	2.8	8
717	Ultrafast Tuning of Various Photochemical Pathways in Perylene-3,4,9,10-tetracarboxylic diimide Charge-Transfer Crystals. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13894-13901	3.8	10
716	Side-chain engineering of PEDOT derivatives as dopant-free hole-transporting materials for efficient and stable n-i-p structured perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9236-9242	7.1	9
715	Urchin-Like Cobalt-Copper (Hydr)oxides as an Efficient Water Oxidation Electrocatalyst. <i>ChemPlusChem</i> , 2020 , 85, 1339-1346	2.8	3
714	Top-Down Approach Making Anisotropic Cellulose Aerogels as Universal Substrates for Multifunctionalization. <i>ACS Nano</i> , 2020 , 14, 7111-7120	16.7	60
713	Copper Selenide-Derived Copper Oxide Nanoplates as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Energy Technology</i> , 2020 , 8, 2000142	3.5	4
712	Organic Salts as p-Type Dopants for Efficient LiTFSI-Free Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33751-33758	9.5	12
711	Advancing Proton Exchange Membrane Electrolyzers with Molecular Catalysts. <i>Joule</i> , 2020 , 4, 1408-1444	7.8	16
710	Promoting the Fe(VI) active species generation by structural and electronic modulation of efficient iron oxide based water oxidation catalyst without Ni or Co. <i>Nano Energy</i> , 2020 , 72, 104656	17.1	18
709	Electroless Plating of NiFeP Alloy on the Surface of Silicon Photoanode for Efficient Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11479-11488	9.5	20
708	Single crystal structure and opto-electronic properties of oxidized Spiro-OMeTAD. <i>Chemical Communications</i> , 2020 , 56, 1589-1592	5.8	8
707	Copper-based homogeneous and heterogeneous catalysts for electrochemical water oxidation. <i>Nanoscale</i> , 2020 , 12, 4187-4218	7.7	41

706	Homogeneous Electrochemical Water Oxidation at Neutral pH by Water-Soluble Ni Complexes Bearing Redox Non-innocent Tetraamido Macrocyclic Ligands. <i>ChemSusChem</i> , 2020 , 13, 3277-3282	8.3	19
705	Electrocatalytic Hydrogenation and Oxidation in Aqueous Conditions \square <i>Chinese Journal of Chemistry</i> , 2020 , 38, 996-1004	4.9	13
704	Hydrophobic/Hydrophilic Directionality Affects the Mechanism of Ru-Catalyzed Water Oxidation Reaction. <i>ACS Catalysis</i> , 2020 , 10, 13364-13370	13.1	9
703	Electrochemical and photoelectrochemical water splitting with a CoO catalyst prepared by flame assisted deposition. <i>Dalton Transactions</i> , 2020 , 49, 588-592	4.3	2
702	An organic polymer CuPPc-derived copper oxide as a highly efficient electrocatalyst for water oxidation. <i>Chemical Communications</i> , 2020 , 56, 3797-3800	5.8	3
701	Electron-Withdrawing Anchor Group of Sensitizer for Dye-Sensitized Solar Cells, Cyanoacrylic Acid, or Benzoic Acid?. <i>Solar Rrl</i> , 2020 , 4, 1900436	7.1	10
700	Defect Engineering of Photocatalysts for Solar Energy Conversion. <i>Solar Rrl</i> , 2020 , 4, 1900487	7.1	52
699	Amorphous WO ₃ induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1712-1722	5.8	11
698	The application of transition metal complexes in hole-transporting layers for perovskite solar cells: Recent progress and future perspectives. <i>Coordination Chemistry Reviews</i> , 2020 , 406, 213143	23.2	30
697	Hierarchical micro-reactor as electrodes for water splitting by metal rod tipped carbon nanocapsule self-assembly in carbonized wood. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118536	21.8	8
696	Selectively Etching Vanadium Oxide to Modulate Surface Vacancies of Unary MetalBased Electrocatalysts for High-Performance Water Oxidation. <i>Advanced Energy Materials</i> , 2020 , 10, 1903571	21.8	43
695	3D Porous Pyramid Heterostructure Array Realizing Efficient Photo-Electrochemical Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 1902935	21.8	26
694	Molybdenum and boron synergistically boosting efficient electrochemical nitrogen fixation. <i>Nano Energy</i> , 2020 , 78, 105391	17.1	11
693	Molecular Functionalization of NiO Nanocatalyst for Enhanced Water Oxidation by Electronic Structure Engineering. <i>ChemSusChem</i> , 2020 , 13, 5901-5909	8.3	3
692	Beyond d Orbitals: Steering the Selectivity of Electrochemical CO ₂ Reduction via Hybridized sp Band of Sulfur-Incorporated Porous Cd Architectures with Dual Collaborative Sites. <i>Advanced Energy Materials</i> , 2020 , 10, 2002499	21.8	8
691	Fine-Tuning by Triple Bond of Carbazole Derivative Dyes to Obtain High Efficiency for Dye-Sensitized Solar Cells with Copper Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46397-46405	9.5	10
690	Unveiling the light soaking effects of the CsPbI ₃ perovskite solar cells. <i>Journal of Power Sources</i> , 2020 , 472, 228506	8.9	13
689	Boosting Electrocatalytic Water Oxidation by Creating Defects and Lattice-Oxygen Active Sites on Ni-Fe Nanosheets. <i>ChemSusChem</i> , 2020 , 13, 5067-5072	8.3	6

688	Cobalt doped BiVO with rich oxygen vacancies for efficient photoelectrochemical water oxidation.. <i>RSC Advances</i> , 2020 , 10, 28523-28526	3.7	12
687	Nickel-selenide templated binary metal-organic frameworks for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16908-16912	13	10
686	Enrichment of glycopeptides using environmentally friendly wood materials. <i>Green Chemistry</i> , 2020 , 22, 5666-5676	10	8
685	A dendritic Sb ₂ Se ₃ /In ₂ S ₃ heterojunction nanorod array photocathode decorated with a MoS _x catalyst for efficient solar hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23385-23394	13	11
684	Engineering active sites on hierarchical transition bimetal oxides/sulfides heterostructure array enabling robust overall water splitting. <i>Nature Communications</i> , 2020 , 11, 5462	17.4	126
683	Metal-Molybdenum Sulfide Nanosheet Arrays Prepared by Anion Exchange as Catalysts for Hydrogen Evolution. <i>Energy Technology</i> , 2020 , 8, 2000595	3.5	1
682	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17681-17692	16.4	48
681	Stabilization of a molecular water oxidation catalyst on a dye-sensitized photoanode by a pyridyl anchor. <i>Nature Communications</i> , 2020 , 11, 4610	17.4	12
680	Selective CO Production by Photoelectrochemical CO Reduction in an Aqueous Solution with Cobalt-Based Molecular Redox Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41644-41648	9.5	6
679	An investigation on the performance of a micro-scale Venturi bubble generator. <i>Chemical Engineering Journal</i> , 2020 , 386, 120980	14.7	20
678	The Central Role of Ligand Conjugation for Properties of Coordination Complexes as Hole-Transport Materials in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6768-6779	6.1	3
677	Exploring the Optical and Electrochemical Properties of Homoleptic versus Heteroleptic Diimine Copper(I) Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 12167-12177	5.1	13
676	Hierarchical CoS/NiS/CoNiO nanorods with favorable stability at 1 A cm for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019 , 55, 1564-1567	5.8	12
675	Improving energy transfer efficiency of dye-sensitized solar cell by fine tuning of dye planarity. <i>Solar Energy</i> , 2019 , 187, 274-280	6.8	19
674	Across the Board: Licheng Sun on the Mechanism of O-O Bond Formation in Photosystem II. <i>ChemSusChem</i> , 2019 , 12, 3401-3404	8.3	4
673	Energy-Loss Reduction as a Strategy to Improve the Efficiency of Dye-Sensitized Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900253	7.1	8
672	Boosting the power conversion efficiency of perovskite solar cells to 17.7% with an indolo[3,2-b]carbazole dopant-free hole transporting material by improving its spatial configuration. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14835-14841	13	29
671	Boosting nitrogen reduction reaction by bio-inspired FeMoS containing hybrid electrocatalyst over a wide pH range. <i>Nano Energy</i> , 2019 , 62, 282-288	17.1	67

670	Fine-tuning the coordination atoms of copper redox mediators: an effective strategy for boosting the photovoltage of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12808-12814	13	6
669	Paired Electrocatalytic Oxygenation and Hydrogenation of Organic Substrates with Water as the Oxygen and Hydrogen Source. <i>Angewandte Chemie</i> , 2019 , 131, 9253-9257	3.6	24
668	Paired Electrocatalytic Oxygenation and Hydrogenation of Organic Substrates with Water as the Oxygen and Hydrogen Source. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9155-9159	16.4	101
667	Singlet Fission from Upper Excited Electronic States of Cofacial Perylene Dimer. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2428-2433	6.4	25
666	Artificial photosynthesis: opportunities and challenges of molecular catalysts. <i>Chemical Society Reviews</i> , 2019 , 48, 2216-2264	58.5	363
665	Ru-bda: Unique Molecular Water-Oxidation Catalysts with Distortion Induced Open Site and Negatively Charged Ligands. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5565-5580	16.4	74
664	Two-dimensional Janus heterostructures for superior Z-scheme photocatalytic water splitting. <i>Nano Energy</i> , 2019 , 59, 537-544	17.1	79
663	13.6% Efficient Organic Dye-Sensitized Solar Cells by Minimizing Energy Losses of the Excited State. <i>ACS Energy Letters</i> , 2019 , 4, 943-951	20.1	183
662	Effects of ultrasonic waves on subcooled pool boiling on a small plain heating surface. <i>Chemical Engineering Science</i> , 2019 , 201, 274-287	4.4	12
661	Iron-Salen Complex and Co Ion-Derived Cobalt-Iron Hydroxide/Carbon Nanohybrid as an Efficient Oxygen Evolution Electrocatalyst. <i>Advanced Science</i> , 2019 , 6, 1900117	13.6	19
660	Surface-Supported Metal-Organic Framework Thin-Film-Derived Transparent CoS@N-Doped Carbon Film as an Efficient Counter Electrode for Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14862-14870	9.5	37
659	Rational Design of Nanoarray Architectures for Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2019 , 29, 1808367	15.6	186
658	Tailoring Active Sites in Mesoporous Defect-Rich NC/Vo-WON Heterostructure Array for Superior Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2019 , 9, 1803693	21.8	53
657	High isotropic dispiro structure hole transporting materials for planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2019 , 32, 152-158	12	6
656	Enhanced performance of perovskite solar cells using p-type doped PFB:F4TCNQ composite as hole transport layer. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 25-32	5.7	15
655	Impact of Linking Topology on the Properties of Carbazole-Based Hole-Transport Materials and their Application in Solid-State Mesoscopic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900196	7.1	8
654	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. <i>Chemistry of Materials</i> , 2019 , 31, 8810-8819	9.6	8
653	Efficient BiVO Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 19027-19033	16.4	51

652	Highly transparent nickel and iron sulfide on nitrogen-doped carbon films as counter electrodes for bifacial quantum dot sensitized solar cells. <i>Solar Energy</i> , 2019 , 193, 766-773	6.8	11
651	A bio-inspired coordination polymer as outstanding water oxidation catalyst via second coordination sphere engineering. <i>Nature Communications</i> , 2019 , 10, 5074	17.4	88
650	Efficient BiVO ₄ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. <i>Angewandte Chemie</i> , 2019 , 131, 19203-19209	3.6	16
649	Optically Transparent Wood Substrate for Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6061-6067	8.3	40
648	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19700-19707	16.4	81
647	Dye-sensitized LaFeO photocathode for solar-driven H ₂ generation. <i>Chemical Communications</i> , 2019 , 55, 12940-12943	5.8	18
646	Iron carbonate hydroxide templated binary metal-organic frameworks for highly efficient electrochemical water oxidation. <i>Chemical Communications</i> , 2019 , 55, 14773-14776	5.8	22
645	Hollow Carbon@NiCo ₂ O ₄ Core/Shell Microspheres for Efficient Electrocatalytic Oxygen Evolution. <i>Energy Technology</i> , 2019 , 7, 1800919	3.5	3
644	Electrochemically polymerized poly(3, 4-phenylenedioxythiophene) as efficient and transparent counter electrode for dye sensitized solar cells. <i>Electrochimica Acta</i> , 2019 , 300, 482-488	6.7	35
643	Iron-Based Molecular Water Oxidation Catalysts: Abundant, Cheap, and Promising. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 31-43	4.5	38
642	Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopant-Free Hole-Transporting Materials for Efficient and Ambient-Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803287	21.8	105
641	Composite Hole-Transport Materials Based on a Metal-Organic Copper Complex and Spiro-OMeTAD for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700073	7.1	18
640	A CuSe-CuO film electrodeposited on titanium foil as a highly active and stable electrocatalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , 2018 , 54, 4979-4982	5.8	28
639	Hierarchically Structured FeNiO H Electrolyst Formed by In Situ Transformation of Metal Phosphate for Efficient Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2018 , 11, 1761-1767	8.3	17
638	Vertically Aligned Oxygenated-CoS ₂ /MoS ₂ Heteronanoshet Architecture from Polyoxometalate for Efficient and Stable Overall Water Splitting. <i>ACS Catalysis</i> , 2018 , 8, 4612-4621	13.1	182
637	Assembly of highly efficient photocatalytic CO ₂ conversion systems with ultrathin two-dimensional metal-organic framework nanosheets. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 54-60	21.8	94
636	Dendritic core-shell nickel-iron-copper metal/metal oxide electrode for efficient electrocatalytic water oxidation. <i>Nature Communications</i> , 2018 , 9, 381	17.4	241
635	Photon Up-Conversion via Epitaxial Surface-Supported Metal-Organic Framework Thin Films with Enhanced Photocurrent. <i>ACS Applied Energy Materials</i> , 2018 , 1, 249-253	6.1	29

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491	Can aliphatic anchoring groups be utilised with dyes for p-type dye sensitized solar cells?. <i>Dalton Transactions</i> , 2016 , 45, 7708-19	4.3	22

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488	Silicon Compound Decorated Photoanode for Performance Enhanced Visible Light Driven Water Splitting. <i>Electrochimica Acta</i> , 2016 , 215, 682-688	6.7	12
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