Licheng Sun

List of Publications by Year
in descending order

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796	62,998	729 120	1627 215
papers	citations	h-index	g-index

825	825	825	35837
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2D materials for solar fuels via artificial photosynthesis. National Science Review, 2022, 9, nwab116.	4.6	6
2	Isolation and Identification of Pseudo Seven-Coordinate Ru(III) Intermediate Completing the Catalytic Cycle of Ru-bda Type of Water Oxidation Catalysts. CCS Chemistry, 2022, 4, 2481-2490.	4.6	16
3	Highly stable perovskite solar cells with a novel Ni-based metal organic complex as dopant-free hole-transporting material. Journal of Energy Chemistry, 2022, 65, 312-318.	7.1	11
4	A Phenanthrocarbazoleâ€Based Dopantâ€Free Holeâ€Transport Polymer with Noncovalent Conformational Locking for Efficient Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	47
5	Inâ€Situ Generated CsPbBr₃ Nanocrystals on Oâ€Defective WO₃ for Photocatalytic CO₂ Reduction. ChemSusChem, 2022, 15, .	3.6	33
6	Effect of the Ancillary Ligand on the Performance of Heteroleptic Cu(I) Diimine Complexes as Dyes in Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2022, 5, 1460-1470.	2.5	10
7	Efficient dye-sensitized solar cells based on bioinspired copper redox mediators by tailoring counterions. Journal of Materials Chemistry A, 2022, 10, 4131-4136.	5.2	4
8	WO₃ Nanosheet-Supported IrW Alloy for High-Performance Acidic Overall Water Splitting with Low Ir Loading. ACS Applied Energy Materials, 2022, 5, 970-980.	2.5	15
9	Sacrificial W Facilitates Selfâ€Reconstruction with Abundant Active Sites for Water Oxidation. Small, 2022, 18, e2107249.	5.2	17
10	Natural Chlorophyll Derivative Assisted Defect Passivation and Hole Extraction for MAPbI₃ Perovskite Solar Cells with Efficiency Exceeding 20%. ACS Applied Energy Materials, 2022, 5, 1390-1396.	2.5	5
11	Engineering MoO_x/MXene Hole Transfer Layers for Unexpected Boosting of Photoelectrochemical Water Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	80
12	Photoelectrochemical water oxidation improved by pyridine N-oxide as a mimic of tyrosine-Z in photosystem II. Chemical Science, 2022, 13, 4955-4961.	3.7	4
13	Water oxidation by a noble metal-free photoanode modified with an organic dye and a molecular cobalt catalyst. Journal of Materials Chemistry A, 2022, 10, 9121-9128.	5.2	6
14	Pyreneâ€Based Dopantâ€Free Holeâ€Transport Polymers with Fluorineâ€Induced Favorable Molecular Stacking Enable Efficient Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	31
15	Promoting Proton Transfer and Stabilizing Intermediates in Catalytic Water Oxidation via Hydrophobic Outer Sphere Interactions. Chemistry - A European Journal, 2022, 28, .	1.7	11
16	Polymeric Viologen-Based Electron Transfer Mediator for Improving the Photoelectrochemical Water Splitting on Sb2Se3 Photocathode. Fundamental Research, 2022, , .	1.6	0
17	Rubrene Nanoaggregate-Integrated CH₃NH₃PbI₃ Bilayer Film: Role of Singlet Fission and Photon Upconversion. ACS Applied Nano Materials, 2022, 5, 801-809.	2.4	1
18	Promotion of the oxygen evolution performance of Ni-Fe layered hydroxides via the introduction of a proton-transfer mediator anion. Science China Chemistry, 2022, 65, 382-390.	4.2	20

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19	Enhancement of Singlet Fission Yield by Hindering Excimer Formation in Perylene Film. Journal of Physical Chemistry C, 2022, 126, 396-403.	1.5	13
20	NiCo₂O₄ thin film prepared by electrochemical deposition as a hole-transport layer for efficient inverted perovskite solar cells. RSC Advances, 2022, 12, 12544-12551.	1.7	3
21	Triggering Lattice Oxygen Activation of Singleâ€Atomic Mo Sites Anchored on Niâ€“Fe Oxyhydroxides Nanoarrays for Electrochemical Water Oxidation. Advanced Materials, 2022, 34, e2202523.	11.1	103
22	Intramolecular hydroxyl nucleophilic attack pathway by a polymeric water oxidation catalyst with single cobalt sites. Nature Catalysis, 2022, 5, 414-429.	16.1	85
23	Multiphase Fluid Dynamics and Mass Transport Modeling in a Porous Electrode toward Hydrogen Evolution Reaction. Industrial & Engineering Chemistry Research, 2022, 61, 8323-8332.	1.8	5
24	Regulating *OCHO Intermediate as Rateâ€Determining Step of Defective Oxynitride Nanosheets Enabling Robust CO₂ Electroreduction. Advanced Energy Materials, 2022, 12, .	10.2	32
25	Reversible Structural Isomerization of Natureâ€™s Water Oxidation Catalyst Prior to Oâ€“O Bond Formation. Journal of the American Chemical Society, 2022, 144, 11736-11747.	6.6	15
26	The future challenges in molecular water oxidation catalysts. Journal of Energy Chemistry, 2022, 73, 643-645.	7.1	1
27	Progress of Experimental and Computational Catalyst Design for Electrochemical Nitrogen Fixation. ACS Catalysis, 2022, 12, 8936-8975.	5.5	41
28	A crosslinked polymer as dopant-free hole-transport material for efficient n-i-p type perovskite solar cells. Journal of Energy Chemistry, 2021, 55, 211-218.	7.1	29
29	Switching O O bond formation mechanism between WNA and I2M pathways by modifying the Ru-bda backbone ligands of water-oxidation catalysts. Journal of Energy Chemistry, 2021, 54, 815-821.	7.1	16
30	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. Angewandte Chemie, 2021, 133, 2004-2013.	1.6	18
31	Tuning the Oâ€“O bond formation pathways of molecular water oxidation catalysts on electrode surfaces via second coordination sphere engineering. Chinese Journal of Catalysis, 2021, 42, 460-469.	6.9	7
32	Revealing ultrafast relaxation dynamics in six-thiophene thin film and single crystal. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112920.	2.0	6
33	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2021, 60, 1976-1985.	7.2	55
34	Necessity of structural rearrangements for O O bond formation between O5 and W2 in photosystem II. Journal of Energy Chemistry, 2021, 57, 436-442.	7.1	7
35	N-Bromosuccinimide as a p-type dopant for a Spiro-OMeTAD hole transport material to enhance the performance of perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 2294-2300.	2.5	5
36	From Ru-bda to Ru-bds: a step forward to highly efficient molecular water oxidation electrocatalysts under acidic and neutral conditions. Nature Communications, 2021, 12, 373.	5.8	37

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37	Metalâ€“organic frameworks and their derivatives as electrocatalysts for the oxygen evolution reaction. Chemical Society Reviews, 2021, 50, 2663-2695.	18.7	333
38	In Situ Induced Crystallineâ€“Amorphous Heterophase Junction by K+ to Improve Photoelectrochemical Water Oxidation of BiVO4. ACS Applied Materials & Interfaces, 2021, 13, 2723-2733.	4.0	10
39	Selective Electrochemical Alkaline Seawater Oxidation Catalyzed by Cobalt Carbonate Hydroxide Nanorod Arrays with Sequential Proton-Electron Transfer Properties. ACS Sustainable Chemistry and Engineering, 2021, 9, 905-913.	3.2	25
40	Surface and bulk reconstruction of CoW sulfides during pH-universal electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 11359-11369.	5.2	21
41	Ultrafast spectroscopy reveals singlet fission, ionization and excimer formation in perylene film. Scientific Reports, 2021, 11, 5220.	1.6	26
42	Switching the O-O Bond Formation Pathways of Ru-pda Water Oxidation Catalyst by Third Coordination Sphere Engineering. Research, 2021, 2021, 9851231.	2.8	7
43	Helical Copper Redox Mediator with Low Electron Recombination for Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 5252-5259.	3.2	6
44	Offâ€Set Interactions of Rutheniumâ€“bda Type Catalysts for Promoting Waterâ€Splitting Performance. Angewandte Chemie, 2021, 133, 14625-14632.	1.6	5
45	Thiophene-fused carbazole derivative dyes for high-performance dye-sensitized solar cells. Tetrahedron, 2021, 88, 132124.	1.0	5
46	Offâ€Set Interactions of Rutheniumâ€“bda Type Catalysts for Promoting Waterâ€Splitting Performance. Angewandte Chemie - International Edition, 2021, 60, 14504-14511.	7.2	13
47	Conformal Macroporous Inverse Opal Oxynitride-Based Photoanode for Robust Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2021, 143, 7402-7413.	6.6	76
48	Ni III â€rich NiFeBa as an Efficient Catalyst for Water Oxidation. ChemSusChem, 2021, 14, 2516-2520.	3.6	2
49	Metalloid Teâ€Doped Feâ€Based Catalysts Applied for Electrochemical Water Oxidation. ChemistrySelect, 2021, 6, 6154-6158.	0.7	7
50	Stable Dyeâ€Sensitized Solar Cells Based on Copper(II/I) Redox Mediators Bearing a Pentadentate Ligand. Angewandte Chemie, 2021, 133, 16292-16299.	1.6	6
51	Stable Dyeâ€Sensitized Solar Cells Based on Copper(II/I) Redox Mediators Bearing a Pentadentate Ligand. Angewandte Chemie - International Edition, 2021, 60, 16156-16163.	7.2	24
52	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. Nature Communications, 2021, 12, 4587.	5.8	401
53	Hydrophobic Interactions of Ru-bda-Type Catalysts for Promoting Water Oxidation Activity. Energy & Fuels, 2021, 35, 19096-19103.	2.5	7
54	Identification of Mâ€NH 2 â€NH 2 Intermediate and Rate Determining Step for Nitrogen Reduction with Bioinspired Sulfurâ€Bonded FeW Catalyst. Angewandte Chemie, 2021, 133, 20494-20504.	1.6	11

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55	Molecular Engineering of Photocathodes based on Polythiophene Organic Semiconductors for Photoelectrochemical Hydrogen Generation. ACS Applied Materials & Interfaces, 2021, 13, 40602-40611.	4.0	8
56	Selective Electro-oxidation of Alcohols to the Corresponding Aldehydes in Aqueous Solution via Cu(III) Intermediates from CuO Nanorods. ACS Sustainable Chemistry and Engineering, 2021, 9, 11855-11861.	3.2	19
57	Singlet Fission, Polaron Formation, and Energy Transfer in Indolo[3,2-b]carbazole Thin Films and Single Crystals. Journal of Physical Chemistry C, 2021, 125, 18827-18833.	1.5	2
58	Identification of Mâ€NH₂â€NH₂ Intermediate and Rate Determining Step for Nitrogen Reduction with Bioinspired Sulfurâ€Bonded FeW Catalyst. Angewandte Chemie - International Edition, 2021, 60, 20331-20341.	7.2	65
59	Dye-sensitized photoanode decorated with pyridine additives for efficient solar water oxidation. Chinese Journal of Catalysis, 2021, 42, 1352-1359.	6.9	8
60	Numerical investigation and comparative analysis of nanofluid cooling enhancement for TEG and TEC systems. Case Studies in Thermal Engineering, 2021, 27, 101331.	2.8	23
61	Supramolecular Co-adsorption on TiO₂ to enhance the efficiency of dye-sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 13697-13703.	5.2	5
62	Remarkable synergy of borate and interfacial hole transporter on BiVO₄ photoanodes for photoelectrochemical water oxidation. Materials Advances, 2021, 2, 4323-4332.	2.6	12
63	Bio-Inspired Water Oxidation Catalysts. , 2021, , 589-610.		0
64	Singlet fission from upper excited singlet states and polaron formation in rubrene film. RSC Advances, 2021, 11, 4639-4645.	1.7	15
65	Investigation on the Extendibility of Self-Similar Heat Sink for Cooling Electrical Equipment With Varying Sizes. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 57-70.	1.4	2
66	Electronic Influence of the 2,2â€²-Bipyridine-6,6â€²-dicarboxylate Ligand in Ru-Based Molecular Water Oxidation Catalysts. Inorganic Chemistry, 2021, 60, 1202-1207.	1.9	10
67	Engineering Lattice Oxygen Activation of Iridium Clusters Stabilized on Amorphous Bimetal Borides Array for Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 27126-27134.	7.2	106
68	Exploration of electrocatalytic water oxidation properties of NiFe catalysts doped with nonmetallic elements (P, S, Se). International Journal of Hydrogen Energy, 2021, 46, 38992-39002.	3.8	10
69	Towards efficient photochemistry from upper excited electronic states: detection of long S2 lifetime of perylene. Journal of Chemical Physics, 2021, 155, 191102.	1.2	3
70	Engineering Lattice Oxygen Activation of Iridium Clusters Stabilized on Amorphous Bimetal Borides Array for Oxygen Evolution Reaction. Angewandte Chemie, 2021, 133, 27332-27340.	1.6	6
71	Two-Dimensional Defective Boron-Doped Niobic Acid Nanosheets for Robust Nitrogen Photofixation. ACS Nano, 2021, 15, 17820-17830.	7.3	26
72	Engineering Single-Atomic Ni-N₄-O Sites on Semiconductor Photoanodes for High-Performance Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2021, 143, 20657-20669.	6.6	114

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73	Switching Pathways of Triplet State Formation by Twisted Intramolecular Charge Transfer. Journal of Physical Chemistry B, 2021, 125, 12518-12527.	1.2	6
74	An investigation on the performance of a micro-scale Venturi bubble generator. Chemical Engineering Journal, 2020, 386, 120980.	6.6	40
75	Electronâ€Withdrawing Anchor Group of Sensitizer for Dyeâ€Sensitized Solar Cells, Cyanoacrylic Acid, or Benzoic Acid?. Solar Rrl, 2020, 4, 1900436.	3.1	20
76	Defect Engineering of Photocatalysts for Solar Energy Conversion. Solar Rrl, 2020, 4, 1900487.	3.1	85
77	Amorphous WO₃ induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. Sustainable Energy and Fuels, 2020, 4, 1712-1722.	2.5	14
78	The application of transition metal complexes in hole-transporting layers for perovskite solar cells: Recent progress and future perspectives. Coordination Chemistry Reviews, 2020, 406, 213143.	9.5	50
79	Hierarchical micro-reactor as electrodes for water splitting by metal rod tipped carbon nanocapsule self-assembly in carbonized wood. Applied Catalysis B: Environmental, 2020, 264, 118536.	10.8	25
80	Selectively Etching Vanadium Oxide to Modulate Surface Vacancies of Unary Metalâ€“Based Electrocatalysts for Highâ€Performance Water Oxidation. Advanced Energy Materials, 2020, 10, 1903571.	10.2	64
81	3D Porous Pyramid Heterostructure Array Realizing Efficient Photoâ€Electrochemical Performance. Advanced Energy Materials, 2020, 10, 1902935.	10.2	41
82	Molybdenum and boron synergistically boosting efficient electrochemical nitrogen fixation. Nano Energy, 2020, 78, 105391.	8.2	21
83	Molecular Functionalization of NiO Nanocatalyst for Enhanced Water Oxidation by Electronic Structure Engineering. ChemSusChem, 2020, 13, 5901-5909.	3.6	14
84	Beyond d Orbits: Steering the Selectivity of Electrochemical CO₂ Reduction via Hybridized sp Band of Sulfurâ€Incorporated Porous Cd Architectures with Dual Collaborative Sites. Advanced Energy Materials, 2020, 10, 2002499.	10.2	20
85	Fine-Tuning by Triple Bond of Carbazole Derivative Dyes to Obtain High Efficiency for Dye-Sensitized Solar Cells with Copper Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 46397-46405.	4.0	27
86	Unveiling the light soaking effects of the CsPbI3 perovskite solar cells. Journal of Power Sources, 2020, 472, 228506.	4.0	21
87	Boosting Electrocatalytic Water Oxidation by Creating Defects and Latticeâ€Oxygen Active Sites on Niâ€Fe Nanosheets. ChemSusChem, 2020, 13, 5067-5072.	3.6	12
88	Cobalt doped BiVO₄ with rich oxygen vacancies for efficient photoelectrochemical water oxidation. RSC Advances, 2020, 10, 28523-28526.	1.7	22
89	Nickel-selenide templated binary metalâ€“organic frameworks for efficient water oxidation. Journal of Materials Chemistry A, 2020, 8, 16908-16912.	5.2	31
90	Enrichment of glycopeptides using environmentally friendly wood materials. Green Chemistry, 2020, 22, 5666-5676.	4.6	24

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91	A dendritic Sb₂Se₃/In₂S₃heterojunction nanorod array photocathode decorated with a MoS_xcatalyst for efficient solar hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 23385-23394.	5.2	21
92	Engineering active sites on hierarchical transition bimetal oxides/sulfides heterostructure array enabling robust overall water splitting. Nature Communications, 2020, 11, 5462.	5.8	383
93	Metalâ€“Molybdenum Sulfide Nanosheet Arrays Prepared by Anion Exchange as Catalysts for Hydrogen Evolution. Energy Technology, 2020, 8, 2000595.	1.8	2
94	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 17681-17692.	6.6	83
95	Stabilization of a molecular water oxidation catalyst on a dyeâ˜sensitized photoanode by aÂpyridyl anchor. Nature Communications, 2020, 11, 4610.	5.8	38
96	Selective CO Production by Photoelectrochemical CO₂ Reduction in an Aqueous Solution with Cobalt-Based Molecular Redox Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 41644-41648.	4.0	13
97	Editorial for the Special Issue of ChemSusChem on Green Carbon Science: CO 2 Capture and Conversion. ChemSusChem, 2020, 13, 6051-6053.	3.6	0
98	Triazatruxene-based sensitizers for highly efficient solid-state dye-sensitized solar cells. Solar Energy, 2020, 212, 1-5.	2.9	9
99	Magnetizing lead-free halide double perovskites. Science Advances, 2020, 6, .	4.7	56
100	Upper Excited State Photophysics of Malachite Green in Solution and Films. Journal of Physical Chemistry B, 2020, 124, 4293-4302.	1.2	5
101	Ionic liquid doped organic hole transporting material for efficient and stable perovskite solar cells. Physica B: Condensed Matter, 2020, 586, 412124.	1.3	18
102	Ultrafast Tuning of Various Photochemical Pathways in Peryleneâ€“TCNQ Charge-Transfer Crystals. Journal of Physical Chemistry C, 2020, 124, 13894-13901.	1.5	13
103	Side-chain engineering of PEDOT derivatives as dopant-free hole-transporting materials for efficient and stable nâ€“iâ€“p structured perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 9236-9242.	2.7	14
104	Urchinâ€Like Cobaltâ€Copper (Hydr)oxides as an Efficient Water Oxidation Electrocatalyst. ChemPlusChem, 2020, 85, 1339-1346.	1.3	7
105	Top-Down Approach Making Anisotropic Cellulose Aerogels as Universal Substrates for Multifunctionalization. ACS Nano, 2020, 14, 7111-7120.	7.3	147
106	Copper Selenideâ€Derived Copper Oxide Nanoplates as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. Energy Technology, 2020, 8, 2000142.	1.8	14
107	Organic Salts as p-Type Dopants for Efficient LiTFSI-Free Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 33751-33758.	4.0	24
108	Advancing Proton Exchange Membrane Electrolyzers with Molecular Catalysts. Joule, 2020, 4, 1408-1444.	11.7	35

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109	Promoting the Fe(VI) active species generation by structural and electronic modulation of efficient iron oxide based water oxidation catalyst without Ni or Co. Nano Energy, 2020, 72, 104656.	8.2	35
110	Electroless Plating of NiFeP Alloy on the Surface of Silicon Photoanode for Efficient Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 11479-11488.	4.0	28
111	Single crystal structure and opto-electronic properties of oxidized Spiro-OMeTAD. Chemical Communications, 2020, 56, 1589-1592.	2.2	24
112	Copper-based homogeneous and heterogeneous catalysts for electrochemical water oxidation. Nanoscale, 2020, 12, 4187-4218.	2.8	79
113	Homogeneous Electrochemical Water Oxidation at Neutral pH by Waterâ€Soluble Ni^{II} Complexes Bearing Redox Nonâ€innocent Tetraamido Macrocyclic Ligands. ChemSusChem, 2020, 13, 3277-3282.	3.6	30
114	Electrocatalytic Hydrogenation and Oxidation in Aqueous Conditions^{â€}. Chinese Journal of Chemistry, 2020, 38, 996-1004.	2.6	38
115	Hydrophobic/Hydrophilic Directionality Affects the Mechanism of Ru-Catalyzed Water Oxidation Reaction. ACS Catalysis, 2020, 10, 13364-13370.	5.5	15
116	Electrochemical and photoelectrochemical water splitting with a CoOx catalyst prepared by flame assisted deposition. Dalton Transactions, 2020, 49, 588-592.	1.6	3
117	An organic polymer CuPPc-derived copper oxide as a highly efficient electrocatalyst for water oxidation. Chemical Communications, 2020, 56, 3797-3800.	2.2	9
118	High isotropic dispiro structure hole transporting materials for planar perovskite solar cells. Journal of Energy Chemistry, 2019, 32, 152-158.	7.1	7
119	Enhanced performance of perovskite solar cells using p-type doped PFB:F4TCNQ composite as hole transport layer. Journal of Alloys and Compounds, 2019, 771, 25-32.	2.8	19
120	Impact of Linking Topology on the Properties of Carbazoleâ€Based Holeâ€Transport Materials and their Application in Solidâ€State Mesoscopic Solar Cells. Solar Rrl, 2019, 3, 1900196.	3.1	17
121	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. Chemistry of Materials, 2019, 31, 8810-8819.	3.2	12
122	Efficient BiVO₄ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. Angewandte Chemie - International Edition, 2019, 58, 19027-19033.	7.2	108
123	Highly transparent nickel and iron sulfide on nitrogen-doped carbon films as counter electrodes for bifacial quantum dot sensitized solar cells. Solar Energy, 2019, 193, 766-773.	2.9	15
124	A bio-inspired coordination polymer as outstanding water oxidation catalyst via second coordination sphere engineering. Nature Communications, 2019, 10, 5074.	5.8	203
125	Efficient BiVO₄ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. Angewandte Chemie, 2019, 131, 19203-19209.	1.6	35
126	The Central Role of Ligand Conjugation for Properties of Coordination Complexes as Hole-Transport Materials in Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 6768-6779.	2.5	11

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127	Exploring the Optical and Electrochemical Properties of Homoleptic versus Heteroleptic Diimine Copper(I) Complexes. Inorganic Chemistry, 2019, 58, 12167-12177.	1.9	25
128	Hierarchical CoS₂/Ni₃S₂/CoNiO_x nanorods with favorable stability at 1 A cm^{â^'2} for electrocatalytic water oxidation. Chemical Communications, 2019, 55, 1564-1567.	2.2	15
129	Improving energy transfer efficiency of dye-sensitized solar cell by fine tuning of dye planarity. Solar Energy, 2019, 187, 274-280.	2.9	24
130	Across the Board: Licheng Sun on the Mechanism of Oâ^'O Bond Formation in Photosystemâ€...II. ChemSusChem, 2019, 12, 3401-3404.	3.6	9
131	Energyâ€Loss Reduction as a Strategy to Improve the Efficiency of Dyeâ€Sensitized Solar Cells. Solar Rrl, 2019, 3, 1900253.	3.1	14
132	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. Journal of Materials Chemistry A, 2019, 7, 14835-14841.	5.2	39
133	Boosting nitrogen reduction reaction by bio-inspired FeMoS containing hybrid electrocatalyst over a wide pH range. Nano Energy, 2019, 62, 282-288.	8.2	108
134	Fine-tuning the coordination atoms of copper redox mediators: an effective strategy for boosting the photovoltage of dye-sensitized solar cells. Journal of Materials Chemistry A, 2019, 7, 12808-12814.	5.2	12
135	Paired Electrocatalytic Oxygenation and Hydrogenation of Organic Substrates with Water as the Oxygen and Hydrogen Source. Angewandte Chemie, 2019, 131, 9253-9257.	1.6	47
136	Paired Electrocatalytic Oxygenation and Hydrogenation of Organic Substrates with Water as the Oxygen and Hydrogen Source. Angewandte Chemie - International Edition, 2019, 58, 9155-9159.	7.2	188
137	Singlet Fission from Upper Excited Electronic States of Cofacial Perylene Dimer. Journal of Physical Chemistry Letters, 2019, 10, 2428-2433.	2.1	43
138	Artificial photosynthesis: opportunities and challenges of molecular catalysts. Chemical Society Reviews, 2019, 48, 2216-2264.	18.7	629
139	Ru-bda: Unique Molecular Water-Oxidation Catalysts with Distortion Induced Open Site and Negatively Charged Ligands. Journal of the American Chemical Society, 2019, 141, 5565-5580.	6.6	132
140	Two-dimensional Janus heterostructures for superior Z-scheme photocatalytic water splitting. Nano Energy, 2019, 59, 537-544.	8.2	121
141	13.6% Efficient Organic Dye-Sensitized Solar Cells by Minimizing Energy Losses of the Excited State. ACS Energy Letters, 2019, 4, 943-951.	8.8	284
142	Effects of ultrasonic waves on subcooled pool boiling on a small plain heating surface. Chemical Engineering Science, 2019, 201, 274-287.	1.9	21
143	Ironâ€“Salen Complex and Co²⁺ Ionâ€Derived Cobaltâ€“Iron Hydroxide/Carbon Nanohybrid as an Efficient Oxygen Evolution Electrocatalyst. Advanced Science, 2019, 6, 1900117.	5.6	29
144	Surface-Supported Metalâ€“Organic Framework Thin-Film-Derived Transparent CoS_{1.097}@N-Doped Carbon Film as an Efficient Counter Electrode for Bifacial Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 14862-14870.	4.0	54

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145	Rational Design of Nanoarray Architectures for Electrocatalytic Water Splitting. Advanced Functional Materials, 2019, 29, 1808367.	7.8	298
146	Tailoring Active Sites in Mesoporous Defectâ€Rich NC/V_oâ€WON Heterostructure Array for Superior Electrocatalytic Hydrogen Evolution. Advanced Energy Materials, 2019, 9, 1803693.	10.2	66
147	Optically Transparent Wood Substrate for Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 6061-6067.	3.2	89
148	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. Journal of the American Chemical Society, 2019, 141, 19700-19707.	6.6	119
149	Dye-sensitized LaFeO₃ photocathode for solar-driven H₂ generation. Chemical Communications, 2019, 55, 12940-12943.	2.2	28
150	Iron carbonate hydroxide templated binary metalâ€“organic frameworks for highly efficient electrochemical water oxidation. Chemical Communications, 2019, 55, 14773-14776.	2.2	41
151	Hollow Carbon@NiCo₂O₄ Coreâ€“Shell Microspheres for Efficient Electrocatalytic Oxygen Evolution. Energy Technology, 2019, 7, 1800919.	1.8	5
152	Electrochemically polymerized poly (3, 4-phenylenedioxythiophene) as efficient and transparent counter electrode for dye sensitized solar cells. Electrochimica Acta, 2019, 300, 482-488.	2.6	38
153	Ironâ€Based Molecular Water Oxidation Catalysts: Abundant, Cheap, and Promising. Chemistry - an Asian Journal, 2019, 14, 31-43.	1.7	50
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