Licheng Sun

List of Publications by Year
in descending order

796 papers	62,998 citations	729 120 h-index	1627 215 g-index
825 all docs	825 docs citations	825 times ranked	35837 citing authors

#	Article	IF	Citations
1	Dye-Sensitized Solar Cells. Chemical Reviews, 2010, 110, 6595-6663.	23.0	8,072
2	A molecular ruthenium catalyst with water-oxidation activity comparable to that of photosystem II. Nature Chemistry, 2012, 4, 418-423.	6.6	1,131
3	Design of Organic Dyes and Cobalt Polypyridine Redox Mediators for High-Efficiency Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 16714-16724.	6.6	1,000
4	Nickelâ€“vanadium monolayer double hydroxide for efficient electrochemical water oxidation. Nature Communications, 2016, 7, 11981.	5.8	808
5	A novel organic chromophore for dye-sensitized nanostructured solar cells. Chemical Communications, 2006, , 2245.	2.2	651
6	Artificial photosynthesis: opportunities and challenges of molecular catalysts. Chemical Society Reviews, 2019, 48, 2216-2264.	18.7	629
7	Molecular Engineering of Organic Sensitizers for Dye-Sensitized Solar Cell Applications. Journal of the American Chemical Society, 2008, 130, 6259-6266.	6.6	625
8	Tuning the HOMO and LUMO Energy Levels of Organic Chromophores for Dye Sensitized Solar Cells. Journal of Organic Chemistry, 2007, 72, 9550-9556.	1.7	576
9	Towards artificial photosynthesis: rutheniumâ€“manganese chemistry for energy production. Chemical Society Reviews, 2001, 30, 36-49.	18.7	530
10	Recent progress in electrochemical hydrogen production with earth-abundant metal complexes as catalysts. Energy and Environmental Science, 2012, 5, 6763.	15.6	474
11	Isolated Seven-Coordinate Ru(IV) Dimer Complex with [HOHOH]^{â^’} Bridging Ligand as an Intermediate for Catalytic Water Oxidation. Journal of the American Chemical Society, 2009, 131, 10397-10399.	6.6	461
12	Phenothiazine derivatives for efficient organic dye-sensitized solar cells. Chemical Communications, 2007, , 3741.	2.2	446
13	Effect of Different Dye Baths and Dye-Structures on the Performance of Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. Journal of Physical Chemistry C, 2008, 112, 11023-11033.	1.5	432
14	Recent Progress on Holeâ€Transporting Materials for Emerging Organometal Halide Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1500213.	10.2	418
15	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
16	Modified Phthalocyanines for Efficient Near-IR Sensitization of Nanostructured TiO2 Electrode. Journal of the American Chemical Society, 2002, 124, 4922-4932.	6.6	396
17	Engineering active sites on hierarchical transition bimetal oxides/sulfides heterostructure array enabling robust overall water splitting. Nature Communications, 2020, 11, 5462.	5.8	383
18	Design of an Organic Chromophore for P-Type Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 8570-8571.	6.6	371

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19	Carbazoleâ€‘Based Holeâ€‘Transport Materials for Efficient Solidâ€‘State Dyeâ€‘Sensitized Solar Cells and Perovskite Solar Cells. Advanced Materials, 2014, 26, 6629-6634.	11.1	369
20	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. ACS Nano, 2018, 12, 12369-12379.	7.3	366
21	Recent advances in dye-sensitized photoelectrochemical cells for solar hydrogen production based on molecular components. Energy and Environmental Science, 2015, 8, 760-775.	15.6	363
22	A low-cost spiro[fluorene-9,9â€²-xanthene]-based hole transport material for highly efficient solid-state dye-sensitized solar cells and perovskite solar cells. Energy and Environmental Science, 2016, 9, 873-877.	15.6	362
23	How the Nature of Triphenylamine-Polyene Dyes in Dye-Sensitized Solar Cells Affects the Open-Circuit Voltage and Electron Lifetimes. Langmuir, 2010, 26, 2592-2598.	1.6	359
24	Metalâ€“organic frameworks and their derivatives as electrocatalysts for the oxygen evolution reaction. Chemical Society Reviews, 2021, 50, 2663-2695.	18.7	333
25	Visible Light Driven Water Splitting in a Molecular Device with Unprecedentedly High Photocurrent Density. Journal of the American Chemical Society, 2013, 135, 4219-4222.	6.6	330
26	Organic Dye-Sensitized Tandem Photoelectrochemical Cell for Light Driven Total Water Splitting. Journal of the American Chemical Society, 2015, 137, 9153-9159.	6.6	327
27	Dendritic core-shell nickel-iron-copper metal/metal oxide electrode for efficient electrocatalytic water oxidation. Nature Communications, 2018, 9, 381.	5.8	322
28	Doubleâ€‘Layered NiO Photocathodes for pâ€‘Type DSSCs with Record IPCE. Advanced Materials, 2010, 22, 1759-1762.	11.1	303
29	Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. Chemistry of Materials, 2007, 19, 4007-4015.	3.2	302
30	Rational Design of Nanoarray Architectures for Electrocatalytic Water Splitting. Advanced Functional Materials, 2019, 29, 1808367.	7.8	298
31	Vertically Aligned Oxygenated-CoS₂â€“MoS₂ Heteronanosheet Architecture from Polyoxometalate for Efficient and Stable Overall Water Splitting. ACS Catalysis, 2018, 8, 4612-4621.	5.5	290
32	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
33	Iron hydrogenase active site mimics in supramolecular systems aiming for light-driven hydrogen production. Coordination Chemistry Reviews, 2005, 249, 1653-1663.	9.5	267
34	Evaluation analysis of prediction methods for two-phase flow pressure drop in mini-channels. International Journal of Multiphase Flow, 2009, 35, 47-54.	1.6	265
35	Proton-Coupled Electron Transfer from Tyrosine in a Tyrosineâˆ’Rutheniumâˆ’tris-Bipyridine Complex:Â Comparison with TyrosineZOxidation in Photosystem II. Journal of the American Chemical Society, 2000, 122, 3932-3936.	6.6	262
36	Highly Efficient CdS Quantum Dot-Sensitized Solar Cells Based on a Modified Polysulfide Electrolyte. Journal of the American Chemical Society, 2011, 133, 8458-8460.	6.6	257

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37	Highly Efficient Bioinspired Molecular Ru Water Oxidation Catalysts with Negatively Charged Backbone Ligands. Accounts of Chemical Research, 2015, 48, 2084-2096.	7.6	255
38	Facile synthesized organic hole transporting material for perovskite solar cell with efficiency of 19.8%. Nano Energy, 2016, 23, 138-144.	8.2	253
39	Structure Engineering of Holeâ€"Conductor Free Perovskite-Based Solar Cells with Low-Temperature-Processed Commercial Carbon Paste As Cathode. ACS Applied Materials & Interfaces, 2014, 6, 16140-16146.	4.0	245
40	Visible Light-Driven Water Oxidation by a Molecular Ruthenium Catalyst in Homogeneous System. Inorganic Chemistry, 2010, 49, 209-215.	1.9	244
41	Light-driven hydrogen production catalysed by transition metal complexes in homogeneous systems. Dalton Transactions, 2009, , 6458.	1.6	241
42	Boosting the efficiency and the stability of low cost perovskite solar cells by using CuPc nanorods as hole transport material and carbon as counter electrode. Nano Energy, 2016, 20, 108-116.	8.2	240
43	Nucleophilic Attack of Hydroxide on a Mn^V Oxo Complex: A Model of the Oâ^'O Bond Formation in the Oxygen Evolving Complex of Photosystem II. Journal of the American Chemical Society, 2009, 131, 8726-8727.	6.6	238
44	Visible light driven hydrogen production from a photo-active cathode based on a molecular catalyst and organic dye-sensitized p-type nanostructured NiO. Chemical Communications, 2012, 48, 988-990.	2.2	237
45	Metalâ€"organic frameworks (ZIF-67) as efficient cocatalysts for photocatalytic reduction of CO₂: the role of the morphology effect. Journal of Materials Chemistry A, 2018, 6, 4768-4775.	5.2	236
46	A Biomimetic Pathway for Hydrogen Evolution from a Model of the Iron Hydrogenase Active Site. Angewandte Chemie - International Edition, 2004, 43, 1006-1009.	7.2	232
47	A photoelectrochemical device for visible light driven water splitting by a molecular ruthenium catalyst assembled on dye-sensitized nanostructured TiO2. Chemical Communications, 2010, 46, 7307.	2.2	232
48	Organic Redox Couples and Organic Counter Electrode for Efficient Organic Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 9413-9422.	6.6	227
49	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO₂ Reduction. Chemistry - A European Journal, 2017, 23, 9481-9485.	1.7	225
50	Promoting Active Sites in Coreâ€"Shell Nanowire Array as Mottâ€"Schottky Electrocatalysts for Efficient and Stable Overall Water Splitting. Advanced Functional Materials, 2018, 28, 1704447.	7.8	225
51	Switching the Redox Mechanism:Â Models for Proton-Coupled Electron Transfer from Tyrosine and Tryptophan. Journal of the American Chemical Society, 2005, 127, 3855-3863.	6.6	224
52	A Lightâ€Resistant Organic Sensitizer for Solarâ€Cell Applications. Angewandte Chemie - International Edition, 2009, 48, 1576-1580.	7.2	223
53	Tailor-Making Low-Cost Spiro[fluorene-9,9â€²-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. CheM, 2017, 2, 676-687.	5.8	222
54	Molecular Design of Anthracene-Bridged Metal-Free Organic Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 9101-9110.	1.5	216

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55	Hollow Ironâ€“Vanadium Composite Spheres: A Highly Efficient Ironâ€Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. Angewandte Chemie - International Edition, 2017, 56, 3289-3293.	7.2	216
56	Visible light-driven water oxidationâ€"from molecular catalysts to photoelectrochemical cells. Energy and Environmental Science, 2011, 4, 3296.	15.6	209
57	Simultaneously efficient light absorption and charge transport of phosphate and oxygen-vacancy confined in bismuth tungstate atomic layers triggering robust solar CO2 reduction. Nano Energy, 2017, 32, 359-366.	8.2	208
58	Photoinduced Intramolecular Charge Transfer and S₂ Fluorescence in Thiopheneâ€Ïâ€Conjugated Donorâ€“Acceptor Systems: Experimental and TDDFT Studies. Chemistry - A European Journal, 2008, 14, 6935-6947.	1.7	203
59	Visible Light-Driven Electron Transfer and Hydrogen Generation Catalyzed by Bioinspired [2Fe2S] Complexes. Inorganic Chemistry, 2008, 47, 2805-2810.	1.9	203
60	A bio-inspired coordination polymer as outstanding water oxidation catalyst via second coordination sphere engineering. Nature Communications, 2019, 10, 5074.	5.8	203
61	Highly efficient and robust molecular ruthenium catalysts for water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15584-15588.	3.3	202
62	Chemical and Lightâ€Driven Oxidation of Water Catalyzed by an Efficient Dinuclear Ruthenium Complex. Angewandte Chemie - International Edition, 2010, 49, 8934-8937.	7.2	199
63	Highly Efficient Oxidation of Water by a Molecular Catalyst Immobilized on Carbon Nanotubes. Angewandte Chemie - International Edition, 2011, 50, 12276-12279.	7.2	193
64	XPS and UPS Characterization of the TiO2/ZnPcGly Heterointerface:Â Alignment of Energy Levels. Journal of Physical Chemistry B, 2002, 106, 5814-5819.	1.2	191
65	Synthesis and Structure of a Biomimetic Model of the Iron Hydrogenase Active Site Covalently Linked to a Ruthenium Photosensitizer. Angewandte Chemie - International Edition, 2003, 42, 3285-3288.	7.2	191
66	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
67	An evaluation of prediction methods for saturated flow boiling heat transfer in mini-channels. International Journal of Heat and Mass Transfer, 2009, 52, 5323-5329.	2.5	187
68	Efficient Electrocatalytic Water Oxidation by a Copper Oxide Thin Film in Borate Buffer. ACS Catalysis, 2015, 5, 627-630.	5.5	186
69	Effect of Anchoring Group on Electron Injection and Recombination Dynamics in Organic Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 3881-3886.	1.5	185
70	Rhodaninedyes for dye-sensitized solar cellsâ€‰:â€‰ spectroscopy, energy levels and photovoltaic performance. Physical Chemistry Chemical Physics, 2009, 11, 133-141.	1.3	178
71	Highly Efficient Solidâ€State Dyeâ€Sensitized Solar Cells Based on Triphenylamine Dyes. Advanced Functional Materials, 2011, 21, 2944-2952.	7.8	178
72	Symmetric and unsymmetric donor functionalization. comparing structural and spectral benefits of chromophores for dye-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 7232.	6.7	177

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73	Structural Modifications of Mononuclear Ruthenium Complexes:â€… A Combined Experimental and Theoretical Study on the Kinetics of Rutheniumâ€Catalyzed Water Oxidation. Angewandte Chemie - International Edition, 2011, 50, 445-449.	7.2	177
74	Influence of Tertiary Phosphanes on the Coordination Configurations and Electrochemical Properties of Iron Hydrogenase Model Complexes: Crystal Structures of [(Î¼-S2C3H6)Fe2(CO)6-nLn] (L =) Tj ETQq0 0 0 rgBT /Overlock	1.0	176
75	Binuclear Ironâ^'Sulfur Complexes with Bidentate Phosphine Ligands as Active Site Models of Fe-Hydrogenase and Their Catalytic Proton Reduction. Inorganic Chemistry, 2007, 46, 1981-1991.	1.9	176
76	Synthesis and Mechanistic Studies of Organic Chromophores with Different Energy Levels for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 4738-4748.	1.5	174
77	High Incident Photonâ€toâ€Current Conversion Efficiency of pâ€Type Dyeâ€Sensitized Solar Cells Based on NiO and Organic Chromophores. Advanced Materials, 2009, 21, 2993-2996.	11.1	173
78	Tetrahydroquinoline dyes with different spacers for organic dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 295-300.	2.0	170
79	Two Novel Carbazole Dyes for Dye-Sensitized Solar Cells with Open-Circuit Voltages up to 1 V Based on Br^{â^'}/Br₃^{â^'} Electrolytes. Organic Letters, 2009, 11, 5542-5545.	2.4	166
80	A Molecular Copper Catalyst for Electrochemical Water Reduction with a Large Hydrogenâ€Generation Rate Constant in Aqueous Solution. Angewandte Chemie - International Edition, 2014, 53, 13803-13807.	7.2	166
81	Highly oriented MOF thin film-based electrocatalytic device for the reduction of CO₂ to CO exhibiting high faradaic efficiency. Journal of Materials Chemistry A, 2016, 4, 15320-15326.	5.2	166
82	Solar cells sensitized with type-II ZnSeâ€"CdS core/shell colloidal quantum dots. Chemical Communications, 2011, 47, 1536-1538.	2.2	161
83	Influence of Ï€-Conjugation Units in Organic Dyes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 1853-1860.	1.5	160
84	Photochemical H2 production with noble-metal-free molecular devices comprising a porphyrin photosensitizer and a cobaloxime catalyst. Chemical Communications, 2010, 46, 8806.	2.2	160
85	Tuning of phenoxazine chromophores for efficient organic dye-sensitized solar cells. Chemical Communications, 2009, , 6288.	2.2	156
86	Evolution of O₂ in a Sevenâ€Coordinate Ru^{IV} Dimer Complex with a [HOHOH]^{â^'} Bridge: A Computational Study. Angewandte Chemie - International Edition, 2010, 49, 1773-1777.	7.2	155
87	Chemical and Photochemical Water Oxidation Catalyzed by Mononuclear Ruthenium Complexes with a Negatively Charged Tridentate Ligand. Chemistry - A European Journal, 2010, 16, 4659-4668.	1.7	154
88	A metal-free â€œblack dyeâ€•for panchromatic dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 674.	15.6	153
89	Photocatalytic Hydrogen Production from Water by Noble-Metal-Free Molecular Catalyst Systems Containing Rose Bengal and the Cobaloximes of BF_{<i>x</i>}-Bridged Oxime Ligands. Journal of Physical Chemistry C, 2010, 114, 15868-15874.	1.5	151
90	Fabrication and Kinetic Study of a Ferrihydrite-Modified BiVO₄ Photoanode. ACS Catalysis, 2017, 7, 1868-1874.	5.5	151

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91	Noncovalent Assembly of a Metalloporphyrin and an Iron Hydrogenase Active-Site Model: Photo-Induced Electron Transfer and Hydrogen Generation. Journal of Physical Chemistry B, 2008, 112, 8198-8202.	1.2	150
92	High-efficiency dye-sensitized solar cells with molecular copper phenanthroline as solid hole conductor. Energy and Environmental Science, 2015, 8, 2634-2637.	15.6	149
93	Top-Down Approach Making Anisotropic Cellulose Aerogels as Universal Substrates for Multifunctionalization. ACS Nano, 2020, 14, 7111-7120.	7.3	147
94	Iodine/iodide-free redox shuttles for liquid electrolyte-based dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9180.	15.6	146
95	Highly efficient and robust molecular water oxidation catalysts based on ruthenium complexes. Chemical Communications, 2014, 50, 12947-12950.	2.2	144
96	A New Dinuclear Ruthenium Complex as an Efficient Water Oxidation Catalyst. Inorganic Chemistry, 2009, 48, 2717-2719.	1.9	143
97	Homogeneous photocatalytic production of hydrogen from water by a bioinspired [Fe₂S₂] catalyst with high turnover numbers. Dalton Transactions, 2010, 39, 1204-1206.	1.6	143
98	Electroless plated Niâ€“B films as highly active electrocatalysts for hydrogen production from water over a wide pH range. Nano Energy, 2016, 19, 98-107.	8.2	143
99	Inorganic Holeâ€Transporting Materials for Perovskite Solar Cells. Small Methods, 2018, 2, 1700280.	4.6	141
100	Integration of organometallic complexes with semiconductors and other nanomaterials for photocatalytic H2 production. Coordination Chemistry Reviews, 2015, 287, 1-14.	9.5	140
101	Assembly of highly efficient photocatalytic CO2 conversion systems with ultrathin two-dimensional metalâ€“organic framework nanosheets. Applied Catalysis B: Environmental, 2018, 227, 54-60.	10.8	140
102	Initial Light Soaking Treatment Enables Hole Transport Material to Outperform Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2013, 135, 7378-7385.	6.6	138
103	Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopantâ€Free Holeâ€Transporting Materials for Efficient and Ambientâ€Stable Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803287.	10.2	138
104	Iodine-free redox couples for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 10592.	6.7	137
105	Model of the Iron Hydrogenase Active Site Covalently Linked to a Ruthenium Photosensitizer:Â Synthesis and Photophysical Properties. Inorganic Chemistry, 2004, 43, 4683-4692.	1.9	136
106	Insights into Ru-Based Molecular Water Oxidation Catalysts: Electronic and Noncovalent-Interaction Effects on Their Catalytic Activities. Inorganic Chemistry, 2013, 52, 7844-7852.	1.9	136
107	Mimicking Electron Transfer Reactions in Photosystem II:â€‰ Synthesis and Photochemical Characterization of a Ruthenium(II) Tris(bipyridyl) Complex with a Covalently Linked Tyrosine. Journal of the American Chemical Society, 1997, 119, 10720-10725.	6.6	135
108	Pt-free tandem molecular photoelectrochemical cells for water splitting driven by visible light. Physical Chemistry Chemical Physics, 2014, 16, 25234-25240.	1.3	135

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109	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. Physical Chemistry Chemical Physics, 2016, 18, 10727-10738.	1.3	135
110	Influence of Triple Bonds as Ï€-Spacer Units in Metal-Free Organic Dyes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 11305-11313.	1.5	134
111	The Importance of Pendant Groups on Triphenylamineâ€Based Hole Transport Materials for Obtaining Perovskite Solar Cells with over 20% Efficiency. Advanced Energy Materials, 2018, 8, 1701209.	10.2	134
112	Effect of different electron donating groups on the performance of dye-sensitized solar cells. Dyes and Pigments, 2010, 84, 62-68.	2.0	132
113	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
114	A Triphenylamine Dye Model for the Study of Intramolecular Energy Transfer and Charge Transfer in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2008, 18, 3461-3468.	7.8	131
115	Highly Efficient Photoelectrochemical Water Splitting with an Immobilized Molecular Co₄O₄ Cubane Catalyst. Angewandte Chemie - International Edition, 2017, 56, 6911-6915.	7.2	130
116	Strategy to Boost the Efficiency of Mixed-Ion Perovskite Solar Cells: Changing Geometry of the Hole Transporting Material. ACS Nano, 2016, 10, 6816-6825.	7.3	127
117	Simple Nickelâ€Based Catalyst Systems Combined With Graphitic Carbon Nitride for Stable Photocatalytic Hydrogen Production in Water. ChemSusChem, 2012, 5, 2133-2138.	3.6	126
118	Towards A Solar Fuel Device: Lightâ€Driven Water Oxidation Catalyzed by a Supramolecular Assembly. Angewandte Chemie - International Edition, 2012, 51, 2417-2420.	7.2	126
119	Phthalocyanine-Sensitized Nanostructured TiO2Electrodes Prepared by a Novel Anchoring Method. Langmuir, 2001, 17, 2743-2747.	1.6	124
120	Binuclear Rutheniumâˆ'Manganese Complexes as Simple Artificial Models for Photosystem II in Green Plants. Journal of the American Chemical Society, 1997, 119, 6996-7004.	6.6	123
121	A super-efficient cobalt catalyst for electrochemical hydrogen production from neutral water with 80 mV overpotential. Energy and Environmental Science, 2014, 7, 329-334.	15.6	121
122	A nickel (II) PY5 complex as an electrocatalyst for water oxidation. Journal of Catalysis, 2016, 335, 72-78.	3.1	121
123	Two-dimensional Janus heterostructures for superior Z-scheme photocatalytic water splitting. Nano Energy, 2019, 59, 537-544.	8.2	121
124	Structural Modification of Organic Dyes for Efficient Coadsorbent-Free Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 2799-2805.	1.5	120
125	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
126	Comparing spiro-OMeTAD and P3HT hole conductors in efficient solid state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 779-789.	1.3	118

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127	Photochemical hydrogen production catalyzed by polypyridyl rutheniumâ€“cobaloxime heterobinuclear complexes with different bridges. Journal of Organometallic Chemistry, 2009, 694, 2814-2819.	0.8	116
128	Visible light driven H2 production in molecular systems employing colloidal MoS2 nanoparticles as catalyst. Chemical Communications, 2009, , 4536.	2.2	116
129	Approaches to efficient molecular catalyst systems for photochemical H2 production using [FeFe]-hydrogenase active site mimics. Dalton Transactions, 2011, 40, 12793.	1.6	116
130	Visible light-driven water oxidation catalyzed by a highly efficient dinuclear ruthenium complex. Chemical Communications, 2010, 46, 6506.	2.2	115
131	Visible Light-Driven Water Splitting in Photoelectrochemical Cells with Supramolecular Catalysts on Photoanodes. ACS Catalysis, 2014, 4, 2347-2350.	5.5	115
132	Photocatalytic H2 production in aqueous solution with host-guest inclusions formed by insertion of an FeFe-hydrogenase mimic and an organic dye into cyclodextrins. Energy and Environmental Science, 2012, 5, 8220.	15.6	114
133	AgTFSI as pâ€Type Dopant for Efficient and Stable Solidâ€State Dyeâ€Sensitized and Perovskite Solar Cells. ChemSusChem, 2014, 7, 3252-3256.	3.6	114
134	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
135	Electron Donorâˆ’Acceptor Dyads Based on Ruthenium(II) Bipyridine and Terpyridine Complexes Bound to Naphthalenediimide. Inorganic Chemistry, 2003, 42, 2908-2918.	1.9	112
136	Efficient near infrared Dâ€“Ï€â€“A sensitizers with lateral anchoring group for dye-sensitized solar cells. Chemical Communications, 2009, , 4031.	2.2	112
137	Tuning the HOMO Energy Levels of Organic Dyes for Dyeâ€Sensitized Solar Cells Based on Br^{âˆ’}/Br₃^{âˆ’} Electrolytes. Chemistry - A European Journal, 2010, 16, 13127-13138.	1.7	112
138	Efficient Organicâ€Dyeâ€Sensitized Solar Cells Based on an Iodineâ€Free Electrolyte. Angewandte Chemie - International Edition, 2010, 49, 7328-7331.	7.2	112
139	Promoting the Activity of Catalysts for the Oxidation of Water with Bridged Dinuclear Ruthenium Complexes. Angewandte Chemie - International Edition, 2013, 52, 3398-3401.	7.2	110
140	Phenoxazineâ€Based Small Molecule Material for Efficient Perovskite Solar Cells and Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1401720.	10.2	109
141	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
142	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
143	Intermolecular Electron Transfer from Photogenerated Ru(bpy)3+to [2Fe2S] Model Complexes of the Iron-Only Hydrogenase Active Site. Inorganic Chemistry, 2007, 46, 3813-3815.	1.9	107
144	Phenoxazine Dyes for Dyeâ€Sensitized Solar Cells: Relationship Between Molecular Structure and Electron Lifetime. Chemistry - A European Journal, 2011, 17, 6415-6424.	1.7	107

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145	Catalytic Activation of H₂ under Mild Conditions by an [FeFe]-Hydrogenase Model via an Active Î¼-Hydride Species. Journal of the American Chemical Society, 2013, 135, 13688-13691.	6.6	107
146	Efficient Perovskite Solar Cells Based on a Solution Processable Nickel(II) Phthalocyanine and Vanadium Oxide Integrated Hole Transport Layer. Advanced Energy Materials, 2017, 7, 1602556.	10.2	107
147	Atomically Thin Mesoporous In₂O_{3â€“}<i>_x</i>/In₂S₃ Lateral Heterostructures Enabling Robust Broadbandâ€Light Photoâ€Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1701114.	10.2	106
148	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
149	Bio-inspired, side-on attachment of a ruthenium photosensitizer to an iron hydrogenase active site model. Dalton Transactions, 2006, , 4599-4606.	1.6	105
150	Reactions of [FeFe]-hydrogenase models involving the formation of hydrides related to proton reduction and hydrogen oxidation. Dalton Transactions, 2013, 42, 12059.	1.6	104
151	Convergent/Divergent Synthesis of a Linkerâ€Varied Series of Dyes for Dyeâ€Sensitized Solar Cells Based on the D35 Donor. Advanced Energy Materials, 2013, 3, 1647-1656.	10.2	103
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