Licheng Sun

List of Publications by Citations

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	Dye-sensitized solar cells. *Chemical Reviews*, **2010**, 110, 6595-663	68.1	7291
776	A molecular ruthenium catalyst with water-oxidation activity comparable to that of photosystem II. *Nature Chemistry*, **2012**, 4, 418-23	17.6	1001
775	Design of organic dyes and cobalt polypyridine redox mediators for high-efficiency dye-sensitized solar cells. *Journal of the American Chemical Society*, **2010**, 132, 16714-24	16.4	912
774	Nickel-vanadium monolayer double hydroxide for efficient electrochemical water oxidation. *Nature Communications*, **2016**, 7, 11981	17.4	635
773	A novel organic chromophore for dye-sensitized nanostructured solar cells. *Chemical Communications*, **2006**, 2245-7	5.8	634
772	Molecular engineering of organic sensitizers for dye-sensitized solar cell applications. *Journal of the American Chemical Society*, **2008**, 130, 6259-66	16.4	595
771	Tuning the HOMO and LUMO energy levels of organic chromophores for dye sensitized solar cells. *Journal of Organic Chemistry*, **2007**, 72, 9550-6	4.2	527
770	Towards artificial photosynthesis: ruthenium–manganese chemistry for energy production. *Chemical Society Reviews*, **2001**, 30, 36-49	58.5	488
769	Recent progress in electrochemical hydrogen production with earth-abundant metal complexes as catalysts. *Energy and Environmental Science*, **2012**, 5, 6763	35.4	426
768	Phenothiazine derivatives for efficient organic dye-sensitized solar cells. *Chemical Communications*, **2007**, 3741-3	5.8	408
767	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	3.8	404
766	Isolated seven-coordinate Ru(IV) dimer complex with [HOHOH](-) bridging ligand as an intermediate for catalytic water oxidation. *Journal of the American Chemical Society*, **2009**, 131, 10397-9	16.4	403
765	Modified phthalocyanines for efficient near-IR sensitization of nanostructured TiO(2) electrode. *Journal of the American Chemical Society*, **2002**, 124, 4922-32	16.4	382
764	Recent Progress on Hole-Transporting Materials for Emerging Organometal Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500213	21.8	376
763	Artificial photosynthesis: opportunities and challenges of molecular catalysts. *Chemical Society Reviews*, **2019**, 48, 2216-2264	58.5	363
762	Design of an organic chromophore for p-type dye-sensitized solar cells. *Journal of the American Chemical Society*, **2008**, 130, 8570-1	16.4	344
761	How the nature of triphenylamine-polyene dyes in dye-sensitized solar cells affects the open-circuit voltage and electron lifetimes. *Langmuir*, **2010**, 26, 2592-8	4	328

760	Recent advances in dye-sensitized photoelectrochemical cells for solar hydrogen production based on molecular components. *Energy and Environmental Science*, **2015**, 8, 760-775	35.4	326
759	Carbazole-based hole-transport materials for efficient solid-state dye-sensitized solar cells and perovskite solar cells. *Advanced Materials*, **2014**, 26, 6629-34	24	320
758	A low-cost spiro[fluorene-9,9?-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	35.4	306
757	Visible light driven water splitting in a molecular device with unprecedentedly high photocurrent density. *Journal of the American Chemical Society*, **2013**, 135, 4219-22	16.4	303
756	Organic Dye-Sensitized Tandem Photoelectrochemical Cell for Light Driven Total Water Splitting. *Journal of the American Chemical Society*, **2015**, 137, 9153-9	16.4	289
755	Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. *Chemistry of Materials*, **2007**, 19, 4007-4015	9.6	283
754	Double-layered NiO photocathodes for p-type DSSCs with record IPCE. *Advanced Materials*, **2010**, 22, 1759-62	24	281
753	Iron hydrogenase active site mimics in supramolecular systems aiming for light-driven hydrogen production. *Coordination Chemistry Reviews*, **2005**, 249, 1653-1663	23.2	253
752	Proton-Coupled Electron Transfer from Tyrosine in a TyrosineRuthenium Tris-Bipyridine Complex: Comparison with TyrosineZ Oxidation in Photosystem II. *Journal of the American Chemical Society*, **2000**, 122, 3932-3936	16.4	245
751	Highly efficient CdS quantum dot-sensitized solar cells based on a modified polysulfide electrolyte. *Journal of the American Chemical Society*, **2011**, 133, 8458-60	16.4	244
750	Dendritic core-shell nickel-iron-copper metal/metal oxide electrode for efficient electrocatalytic water oxidation. *Nature Communications*, **2018**, 9, 381	17.4	241
749	Visible light-driven water oxidation by a molecular ruthenium catalyst in homogeneous system. *Inorganic Chemistry*, **2010**, 49, 209-15	5.1	228
748	Highly efficient bioinspired molecular Ru water oxidation catalysts with negatively charged backbone ligands. *Accounts of Chemical Research*, **2015**, 48, 2084-96	24.3	223
747	Light-driven hydrogen production catalysed by transition metal complexes in homogeneous systems. *Dalton Transactions*, **2009**, 6458-67	4.3	221
746	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. *ACS Nano*, **2018**, 12, 12369-12379	16.7	220
745	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, 988-90	5.8	217
744	A photoelectrochemical device for visible light driven water splitting by a molecular ruthenium catalyst assembled on dye-sensitized nanostructured TiO2. *Chemical Communications*, **2010**, 46, 7307-9	5.8	217
743	A biomimetic pathway for hydrogen evolution from a model of the iron hydrogenase active site. *Angewandte Chemie - International Edition*, **2004**, 43, 1006-9	16.4	215

742	Structure engineering of hole-conductor free perovskite-based solar cells with low-temperature-processed commercial carbon paste as cathode. *ACS Applied Materials & Interfaces*, **2014**, 6, 16140-6	9.5	214
741	Organic redox couples and organic counter electrode for efficient organic dye-sensitized solar cells. *Journal of the American Chemical Society*, **2011**, 133, 9413-22	16.4	214
740	Facile synthesized organic hole transporting material for perovskite solar cell with efficiency of 19.8%. *Nano Energy*, **2016**, 23, 138-144	17.1	213
739	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	17.1	211
738	Nucleophilic attack of hydroxide on a Mn(V) oxo complex: a model of the O-O bond formation in the oxygen evolving complex of photosystem II. *Journal of the American Chemical Society*, **2009**, 131, 8726-7	16.4	211
737	Switching the redox mechanism: models for proton-coupled electron transfer from tyrosine and tryptophan. *Journal of the American Chemical Society*, **2005**, 127, 3855-63	16.4	207
736	A light-resistant organic sensitizer for solar-cell applications. *Angewandte Chemie - International Edition*, **2009**, 48, 1576-80	16.4	203
735	Visible light-driven water oxidation from molecular catalysts to photoelectrochemical cells. *Energy and Environmental Science*, **2011**, 4, 3296	35.4	198
734	Molecular Design of Anthracene-Bridged Metal-Free Organic Dyes for Efficient Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 9101-9110	3.8	198
733	Visible light-driven electron transfer and hydrogen generation catalyzed by bioinspired [2Fe2S] complexes. *Inorganic Chemistry*, **2008**, 47, 2805-10	5.1	192
732	Evaluation analysis of prediction methods for two-phase flow pressure drop in mini-channels. *International Journal of Multiphase Flow*, **2009**, 35, 47-54	3.6	190
731	Photoinduced intramolecular charge transfer and S2 fluorescence in thiophene-pi-conjugated donor-acceptor systems: experimental and TDDFT studies. *Chemistry - A European Journal*, **2008**, 14, 6935-47	4.8	190
730	Chemical and light-driven oxidation of water catalyzed by an efficient dinuclear ruthenium complex. *Angewandte Chemie - International Edition*, **2010**, 49, 8934-7	16.4	189
729	Rational Design of Nanoarray Architectures for Electrocatalytic Water Splitting. *Advanced Functional Materials*, **2019**, 29, 1808367	15.6	186
728	13.6% Efficient Organic Dye-Sensitized Solar Cells by Minimizing Energy Losses of the Excited State. *ACS Energy Letters*, **2019**, 4, 943-951	20.1	183
727	Vertically Aligned Oxygenated-CoS2/MoS2 Heteronanosheet Architecture from Polyoxometalate for Efficient and Stable Overall Water Splitting. *ACS Catalysis*, **2018**, 8, 4612-4621	13.1	182
726	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, 15584-8	11.5	181
725	Tailor-Making Low-Cost Spiro[fluorene-9,9?-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. *CheM*, **2017**, 2, 676-687	16.2	176

724	Highly efficient oxidation of water by a molecular catalyst immobilized on carbon nanotubes. *Angewandte Chemie - International Edition*, **2011**, 50, 12276-9	16.4	176
723	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, 3285-8	16.4	176
722	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	3.8	175
721	Efficient Electrocatalytic Water Oxidation by a Copper Oxide Thin Film in Borate Buffer. *ACS Catalysis*, **2015**, 5, 627-630	13.1	172
720	Highly Efficient Solid-State Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. *Advanced Functional Materials*, **2011**, 21, 2944-2952	15.6	170
719	Rhodanine dyes for dye-sensitized solar cells : spectroscopy, energy levels and photovoltaic performance. *Physical Chemistry Chemical Physics*, **2009**, 11, 133-41	3.6	169
718	XPS and UPS Characterization of the TiO2/ZnPcGly Heterointerface: Alignment of Energy Levels. *Journal of Physical Chemistry B*, **2002**, 106, 5814-5819	3.4	169
717	Symmetric and unsymmetric donor functionalization. comparing structural and spectral benefits of chromophores for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2009**, 19, 7232		165
716	Promoting Active Sites in Core‐Shell Nanowire Array as Mott‐Schottky Electrocatalysts for Efficient and Stable Overall Water Splitting. *Advanced Functional Materials*, **2018**, 28, 1704447	15.6	165
715	High Incident Photon-to-Current Conversion Efficiency of p-Type Dye-Sensitized Solar Cells Based on NiO and Organic Chromophores. *Advanced Materials*, **2009**, 21, 2993-2996	24	164
714	Binuclear iron-sulfur complexes with bidentate phosphine ligands as active site models of Fe-hydrogenase and their catalytic proton reduction. *Inorganic Chemistry*, **2007**, 46, 1981-91	5.1	162
713	Tetrahydroquinoline dyes with different spacers for organic dye-sensitized solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 189, 295-300	4.7	162
712	Influence of Tertiary Phosphanes on the Coordination Configurations and Electrochemical Properties of Iron Hydrogenase Model Complexes: Crystal Structures of [(μ-S2C3H6)Fe2(CO)6Ln] (L = PMe2Ph, n = 1, 2; PPh3, P(OEt)3, n = 1). *European Journal of Inorganic Chemistry*, **2005**, 2005, 2506-2513	2.3	162
711	Hollow Iron-Vanadium Composite Spheres: A Highly Efficient Iron-Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. *Angewandte Chemie - International Edition*, **2017**, 56, 3289-3293	16.4	161
710	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO Reduction. *Chemistry - A European Journal*, **2017**, 23, 9481-9485	4.8	161
709	Structural modifications of mononuclear ruthenium complexes: a combined experimental and theoretical study on the kinetics of ruthenium-catalyzed water oxidation. *Angewandte Chemie - International Edition*, **2011**, 50, 445-9	16.4	159
708	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	3.8	159
707	Two novel carbazole dyes for dye-sensitized solar cells with open-circuit voltages up to 1 V based on Br(-)/Br(3)(-) electrolytes. *Organic Letters*, **2009**, 11, 5542-5	6.2	156

706	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	17.1	153
705	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	4.9	151
704	Photochemical H2 with noble-metal-free molecular devices comprising a porphyrin photosensitizer and a cobaloxime catalyst. *Chemical Communications*, **2010**, 46, 8806-8	5.8	149
703	Chemical and photochemical water oxidation catalyzed by mononuclear ruthenium complexes with a negatively charged tridentate ligand. *Chemistry - A European Journal*, **2010**, 16, 4659-68	4.8	149
702	Evolution of O2 in a seven-coordinate Ru(IV) dimer complex with a [HOHOH]- bridge: a computational study. *Angewandte Chemie - International Edition*, **2010**, 49, 1773-7	16.4	149
701	Influence of π-Conjugation Units in Organic Dyes for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2007**, 111, 1853-1860	3.8	149
700	Solar cells sensitized with type-II ZnSe-CdS core/shell colloidal quantum dots. *Chemical Communications*, **2011**, 47, 1536-8	5.8	148
699	Metal–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	13	145
698	Tuning of phenoxazine chromophores for efficient organic dye-sensitized solar cells. *Chemical Communications*, **2009**, 6288-90	5.8	144
697	A metal-free "black dye" for panchromatic dye-sensitized solar cells. *Energy and Environmental Science*, **2009**, 2, 674	35.4	142
696	A molecular copper catalyst for electrochemical water reduction with a large hydrogen-generation rate constant in aqueous solution. *Angewandte Chemie - International Edition*, **2014**, 53, 13803-7	16.4	141
695	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, 8198-202	3.4	140
694	Photocatalytic Hydrogen Production from Water by Noble-Metal-Free Molecular Catalyst Systems Containing Rose Bengal and the Cobaloximes of BFx-Bridged Oxime Ligands. *Journal of Physical Chemistry C*, **2010**, 114, 15868-15874	3.8	139
693	Homogeneous photocatalytic production of hydrogen from water by a bioinspired [Fe(2)S(2)] catalyst with high turnover numbers. *Dalton Transactions*, **2010**, 39, 1204-6	4.3	135
692	Iodine/iodide-free redox shuttles for liquid electrolyte-based dye-sensitized solar cells. *Energy and Environmental Science*, **2012**, 5, 9180	35.4	133
691	A new dinuclear ruthenium complex as an efficient water oxidation catalyst. *Inorganic Chemistry*, **2009**, 48, 2717-9	5.1	131
690	Iodine-free redox couples for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2011**, 21, 10592		129
689	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, 7378-85	16.4	126

688	Engineering active sites on hierarchical transition bimetal oxides/sulfides heterostructure array enabling robust overall water splitting. *Nature Communications*, **2020**, 11, 5462	17.4	126
687	Integration of organometallic complexes with semiconductors and other nanomaterials for photocatalytic H2 production. *Coordination Chemistry Reviews*, **2015**, 287, 1-14	23.2	125
686	Mimicking Electron Transfer Reactions in Photosystem II: 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	16.4	125
685	Model of the iron hydrogenase active site covalently linked to a ruthenium photosensitizer: synthesis and photophysical properties. *Inorganic Chemistry*, **2004**, 43, 4683-92	5.1	125
684	High-efficiency dye-sensitized solar cells with molecular copper phenanthroline as solid hole conductor. *Energy and Environmental Science*, **2015**, 8, 2634-2637	35.4	123
683	Influence of Triple Bonds as Spacer Units in Metal-Free Organic Dyes for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 11305-11313	3.8	123
682	A Triphenylamine Dye Model for the Study of Intramolecular Energy Transfer and Charge Transfer in Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2008**, 18, 3461-3468	15.6	123
681	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	13	121
680	Highly efficient and robust molecular water oxidation catalysts based on ruthenium complexes. *Chemical Communications*, **2014**, 50, 12947-50	5.8	121
679	Insights into Ru-based molecular water oxidation catalysts: electronic and noncovalent-interaction effects on their catalytic activities. *Inorganic Chemistry*, **2013**, 52, 7844-52	5.1	118
678	Pt-free tandem molecular photoelectrochemical cells for water splitting driven by visible light. *Physical Chemistry Chemical Physics*, **2014**, 16, 25234-40	3.6	117
677	Phthalocyanine-Sensitized Nanostructured TiO2 Electrodes Prepared by a Novel Anchoring Method. *Langmuir*, **2001**, 17, 2743-2747	4	117
676	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. *Physical Chemistry Chemical Physics*, **2016**, 18, 10727-38	3.6	116
675	Strategy to Boost the Efficiency of Mixed-Ion Perovskite Solar Cells: Changing Geometry of the Hole Transporting Material. *ACS Nano*, **2016**, 10, 6816-25	16.7	115
674	Effect of different electron donating groups on the performance of dye-sensitized solar cells. *Dyes and Pigments*, **2010**, 84, 62-68	4.6	115
673	Simple nickel-based catalyst systems combined with graphitic carbon nitride for stable photocatalytic hydrogen production in water. *ChemSusChem*, **2012**, 5, 2133-8	8.3	114
672	Comparing spiro-OMeTAD and P3HT hole conductors in efficient solid state dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 779-89	3.6	113
671	Electroless plated NiB films as highly active electrocatalysts for hydrogen production from water over a wide pH range. *Nano Energy*, **2016**, 19, 98-107	17.1	112

670	Towards a solar fuel device: light-driven water oxidation catalyzed by a supramolecular assembly. *Angewandte Chemie - International Edition*, **2012**, 51, 2417-20	16.4	112
669	Approaches to efficient molecular catalyst systems for photochemical H2 production using [FeFe]-hydrogenase active site mimics. *Dalton Transactions*, **2011**, 40, 12793-800	4.3	111
668	Efficient organic-dye-sensitized solar cells based on an iodine-free electrolyte. *Angewandte Chemie - International Edition*, **2010**, 49, 7328-31	16.4	110
667	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	35.4	109
666	Structural Modification of Organic Dyes for Efficient Coadsorbent-Free Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 2799-2805	3.8	109
665	Visible light-driven water oxidation catalyzed by a highly efficient dinuclear ruthenium complex. *Chemical Communications*, **2010**, 46, 6506-8	5.8	108
664	Binuclear RutheniumManganese Complexes as Simple Artificial Models for Photosystem II in Green Plants. *Journal of the American Chemical Society*, **1997**, 119, 6996-7004	16.4	108
663	Metal-organic frameworks and their derivatives as electrocatalysts for the oxygen evolution reaction. *Chemical Society Reviews*, **2021**, 50, 2663-2695	58.5	107
662	Visible light driven H(2) production in molecular systems employing colloidal MoS(2) nanoparticles as catalyst. *Chemical Communications*, **2009**, 4536-8	5.8	106
661	Fabrication and Kinetic Study of a Ferrihydrite-Modified BiVO4 Photoanode. *ACS Catalysis*, **2017**, 7, 1868-1874	13.7	105
660	Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopant-Free Hole-Transporting Materials for Efficient and Ambient-Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1803287	21.8	105
659	A super-efficient cobalt catalyst for electrochemical hydrogen production from neutral water with 80 mV overpotential. *Energy and Environmental Science*, **2014**, 7, 329-334	35.4	104
658	Promoting the activity of catalysts for the oxidation of water with bridged dinuclear ruthenium complexes. *Angewandte Chemie - International Edition*, **2013**, 52, 3398-401	16.4	104
657	Electron donor-acceptor dyads based on ruthenium(II) bipyridine and terpyridine complexes bound to naphthalenediimide. *Inorganic Chemistry*, **2003**, 42, 2908-18	5.1	104
656	Efficient near infrared D-pi-A sensitizers with lateral anchoring group for dye-sensitized solar cells. *Chemical Communications*, **2009**, 4031-3	5.8	103
655	Highly Efficient Photoelectrochemical Water Splitting with an Immobilized Molecular Co O Cubane Catalyst. *Angewandte Chemie - International Edition*, **2017**, 56, 6911-6915	16.4	102
654	Visible Light-Driven Water Splitting in Photoelectrochemical Cells with Supramolecular Catalysts on Photoanodes. *ACS Catalysis*, **2014**, 4, 2347-2350	13.1	102
653	Paired Electrocatalytic Oxygenation and Hydrogenation of Organic Substrates with Water as the Oxygen and Hydrogen Source. *Angewandte Chemie - International Edition*, **2019**, 58, 9155-9159	16.4	101

652	Photochemical hydrogen production catalyzed by polypyridyl ruthenium–cobaloxime heterobinuclear complexes with different bridges. *Journal of Organometallic Chemistry*, **2009**, 694, 2814-2819	2.3	101
651	Tuning the HOMO energy levels of organic dyes for dye-sensitized solar cells based on Br-/Br3- electrolytes. *Chemistry - A European Journal*, **2010**, 16, 13127-38	4.8	101
650	The Importance of Pendant Groups on Triphenylamine-Based Hole Transport Materials for Obtaining Perovskite Solar Cells with over 20% Efficiency. *Advanced Energy Materials*, **2018**, 8, 1701209	21.8	101
649	Intermolecular electron transfer from photogenerated Ru(bpy)3+ to [2Fe2S] model complexes of the iron-only hydrogenase active site. *Inorganic Chemistry*, **2007**, 46, 3813-5	5.1	100
648	Inorganic Hole-Transporting Materials for Perovskite Solar Cells. *Small Methods*, **2018**, 2, 1700280	12.8	100
647	Bio-inspired, side-on attachment of a ruthenium photosensitizer to an iron hydrogenase active site model. *Dalton Transactions*, **2006**, 4599-606	4.3	98
646	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. *Nature Communications*, **2021**, 12, 4587	17.4	98
645	AgTFSI as p-type dopant for efficient and stable solid-state dye-sensitized and perovskite solar cells. *ChemSusChem*, **2014**, 7, 3252-6	8.3	97
644	Catalytic activation of H2 under mild conditions by an [FeFe]-hydrogenase model via an active ‐hydride species. *Journal of the American Chemical Society*, **2013**, 135, 13688-91	16.4	97
643	Phenoxazine-Based Small Molecule Material for Efficient Perovskite Solar Cells and Bulk Heterojunction Organic Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1401720	21.8	97
642	Reactions of [FeFe]-hydrogenase models involving the formation of hydrides related to proton reduction and hydrogen oxidation. *Dalton Transactions*, **2013**, 42, 12059-71	4.3	96
641	Assembly of highly efficient photocatalytic CO2 conversion systems with ultrathin two-dimensional metal‐organic framework nanosheets. *Applied Catalysis B: Environmental*, **2018**, 227, 54-60	21.8	94
640	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. *Journal of Materials Chemistry*, **2012**, 22, 16709		94
639	Phenoxazine dyes for dye-sensitized solar cells: relationship between molecular structure and electron lifetime. *Chemistry - A European Journal*, **2011**, 17, 6415-24	4.8	92
638	Novel Small Molecular Materials Based on Phenoxazine Core Unit for Efficient Bulk Heterojunction Organic Solar Cells and Perovskite Solar Cells. *Chemistry of Materials*, **2015**, 27, 1808-1814	9.6	91
637	Structural transformation mediated by o-, m-, and p-phthalates from two to three dimensions for manganese/phthalate/4,4?-bpy complexes (4,4?-bpy = 4,4?-bipyridine). *New Journal of Chemistry*, **2003**, 27, 890-894	3.6	91
636	A nickel (II) PY5 complex as an electrocatalyst for water oxidation. *Journal of Catalysis*, **2016**, 335, 72-78	7.3	89
635	Facile synthesis of fluorene-based hole transport materials for highly efficient perovskite solar cells and solid-state dye-sensitized solar cells. *Nano Energy*, **2016**, 26, 108-113	17.1	89

634	A bio-inspired coordination polymer as outstanding water oxidation catalyst via second coordination sphere engineering. *Nature Communications*, **2019**, 10, 5074	17.4	88
633	Convergent/Divergent Synthesis of a Linker-Varied Series of Dyes for Dye-Sensitized Solar Cells Based on the D35 Donor. *Advanced Energy Materials*, **2013**, 3, 1647-1656	21.8	88
632	Toward controlling water oxidation catalysis: tunable activity of ruthenium complexes with axial imidazole/DMSO ligands. *Journal of the American Chemical Society*, **2012**, 134, 18868-80	16.4	88
631	Photo-induced oxidation of a dinuclear Mn(2)(II,II) complex to the Mn(2)(III,IV) state by inter- and intramolecular electron transfer to Ru(III)tris-bipyridine. *Journal of Inorganic Biochemistry*, **2002**, 91, 159-72	4.3	87
630	Phosphine coordination to a cobalt diimine-dioxime catalyst increases stability during light-driven H2 production. *Inorganic Chemistry*, **2012**, 51, 2115-20	5.1	86
629	Highly Efficient Organic Sensitizers for Solid-State Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2009**, 113, 16816-16820	3.8	86
628	Visible light-driven water oxidation using a covalently-linked molecular catalyst-sensitizer dyad assembled on a TiO electrode. *Chemical Science*, **2016**, 7, 1430-1439	9.4	84
627	Carbene-pyridine chelating 2Fe2S hydrogenase model complexes as highly active catalysts for the electrochemical reduction of protons from weak acid (HOAc). *Dalton Transactions*, **2007**, 1277-83	4.3	84
626	Photoinduced electron transfer between a carotenoid and TiO2 nanoparticle. *Journal of the American Chemical Society*, **2002**, 124, 13949-57	16.4	84
625	A new strategy for the improvement of photophysical properties in ruthenium(II) polypyridyl complexes. Synthesis and photophysical and electrochemical characterization of six mononuclear ruthenium(II) bisterpyridine-type complexes. *Inorganic Chemistry*, **2005**, 44, 3215-25	5.1	83
624	Perovskite-based nanocubes with simultaneously improved visible-light absorption and charge separation enabling efficient photocatalytic CO2 reduction. *Nano Energy*, **2016**, 30, 59-68	17.1	83
623	Intramolecularly two-centered cooperation catalysis for the synthesis of cyclic carbonates from CO2 and epoxides. *Tetrahedron Letters*, **2008**, 49, 6589-6592	2	82
622	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	16.4	81
621	Electrocatalytic hydrogen evolution from neutral water by molecular cobalt tripyridine-diamine complexes. *Chemical Communications*, **2013**, 49, 9455-7	5.8	80
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