Michael GrÃ¤tzel

List of Publications by Year
in descending order

651 papers	232,503 citations	29 195 h-index	14 473 g-index
681 all docs	681 docs citations	681 times ranked	69775 citing authors

#	Article	IF	Citations
1	A low-cost, high-efficiency solar cell based on dye-sensitized colloidal TiO2 films. Nature, 1991, 353, 737-740.	13.7	26,665
2	Photoelectrochemical cells. Nature, 2001, 414, 338-344.	13.7	11,931
3	Sequential deposition as a route to high-performance perovskite-sensitized solar cells. Nature, 2013, 499, 316-319.	13.7	8,542
4	Lead Iodide Perovskite Sensitized All-Solid-State Submicron Thin Film Mesoscopic Solar Cell with Efficiency Exceeding 9%. Scientific Reports, 2012, 2, 591.	1.6	6,763
5	Long-Range Balanced Electron- and Hole-Transport Lengths in Organic-Inorganic CH ₃ NH ₃ PbI ₃. Science, 2013, 342, 344-347.	6.0	6,060
6	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)â€“Based Redox Electrolyte Exceed 12 Percent Efficiency. Science, 2011, 334, 629-634.	6.0	5,637
7	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. Energy and Environmental Science, 2016, 9, 1989-1997.	15.6	4,560
8	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. Nature Chemistry, 2014, 6, 242-247.	6.6	3,982
9	Solid-state dye-sensitized mesoporous TiO2 solar cells with high photon-to-electron conversion efficiencies. Nature, 1998, 395, 583-585.	13.7	3,353
10	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. Science, 2016, 354, 206-209.	6.0	3,137
11	Low-temperature solution-processed wavelength-tunable perovskites for lasing. Nature Materials, 2014, 13, 476-480.	13.3	2,725
12	A hole-conductorâ€“free, fully printable mesoscopic perovskite solar cell with high stability. Science, 2014, 345, 295-298.	6.0	2,685
13	Molecular Photovoltaics. Accounts of Chemical Research, 2000, 33, 269-277.	7.6	2,625
14	Recent Advances in Sensitized Mesoscopic Solar Cells. Accounts of Chemical Research, 2009, 42, 1788-1798.	7.6	2,502
15	Engineering of Efficient Panchromatic Sensitizers for Nanocrystalline TiO2-Based Solar Cells. Journal of the American Chemical Society, 2001, 123, 1613-1624.	6.6	2,483
16	Efficient inorganicâ€“organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors. Nature Photonics, 2013, 7, 486-491.	15.6	2,423
17	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. Science, 2014, 345, 1593-1596.	6.0	2,260
18	Synthesis and crystal chemistry of the hybrid perovskite (CH3NH3)PbI3 for solid-state sensitised solar cell applications. Journal of Materials Chemistry A, 2013, 1, 5628.	5.2	2,254

#	ARTICLE	IF	CITATIONS
19	Pseudo-halide anion engineering for Î±-FAPbI3 perovskite solar cells. Nature, 2021, 592, 381-385.	13.7	2,095
20	Efficient and stable large-area perovskite solar cells with inorganic charge extraction layers. Science, 2015, 350, 944-948.	6.0	2,007
21	Highly active oxide photocathode for photoelectrochemical water reduction. Nature Materials, 2011, 10, 456-461.	13.3	1,894
22	The light and shade of perovskite solar cells. Nature Materials, 2014, 13, 838-842.	13.3	1,877
23	Mesoscopic CH₃NH₃PbI₃/TiO₂ Heterojunction Solar Cells. Journal of the American Chemical Society, 2012, 134, 17396-17399.	6.6	1,801
24	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater thanÂ21%. Nature Energy, 2016, 1, .	19.8	1,719
25	Fabrication of thin film dye sensitized solar cells with solar to electric power conversion efficiency over 10%. Thin Solid Films, 2008, 516, 4613-4619.	0.8	1,702
26	Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170.	4.7	1,669
27	A vacuum flashâ€"assisted solution process for high-efficiency large-area perovskite solar cells. Science, 2016, 353, 58-62.	6.0	1,636
28	Growth of CH3NH3PbI3 cuboids with controlled size for high-efficiency perovskite solar cells. Nature Nanotechnology, 2014, 9, 927-932.	15.6	1,600
29	Promises and challenges of perovskite solar cells. Science, 2017, 358, 739-744.	6.0	1,510
30	New Benchmark for Water Photooxidation by Nanostructured Î±-Fe2O3Films. Journal of the American Chemical Society, 2006, 128, 15714-15721.	6.6	1,477
31	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. Nature Materials, 2003, 2, 402-407.	13.3	1,466
32	Nanocrystalline Titanium Oxide Electrodes for Photovoltaic Applications. Journal of the American Ceramic Society, 1997, 80, 3157-3171.	1.9	1,418
33	Perovskite solar cells employing organic charge-transport layers. Nature Photonics, 2014, 8, 128-132.	15.6	1,320
34	Electrochemical and Photoelectrochemical Investigation of Single-Crystal Anatase. Journal of the American Chemical Society, 1996, 118, 6716-6723.	6.6	1,312
35	Enhance the Optical Absorptivity of Nanocrystalline TiO₂ Film with High Molar Extinction Coefficient Ruthenium Sensitizers for High Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 10720-10728.	6.6	1,307
36	Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20%. Science, 2017, 358, 768-771.	6.0	1,285

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37	Understanding the rate-dependent Jâ€“V hysteresis, slow time component, and aging in CH₃NH₃PbI₃ perovskite solar cells: the role of a compensated electric field. Energy and Environmental Science, 2015, 8, 995-1004.	15.6	1,150
38	Mixedâ€Organicâ€Cation Perovskite Photovoltaics for Enhanced Solarâ€Light Harvesting. Angewandte Chemie - International Edition, 2014, 53, 3151-3157.	7.2	1,117
39	Highly efficient planar perovskite solar cells through band alignment engineering. Energy and Environmental Science, 2015, 8, 2928-2934.	15.6	1,097
40	Entropic stabilization of mixed A-cation ABX₃ metal halide perovskites for high performance perovskite solar cells. Energy and Environmental Science, 2016, 9, 656-662.	15.6	1,077
41	Cation-Induced Band-Gap Tuning in Organohalide Perovskites: Interplay of Spinâ€“Orbit Coupling and Octahedra Tilting. Nano Letters, 2014, 14, 3608-3616.	4.5	1,033
42	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid Ï‰-ammonium chlorides. Nature Chemistry, 2015, 7, 703-711.	6.6	1,033
43	Acidâˆ'Base Equilibria of (2,2â€²-Bipyridyl-4,4â€²-dicarboxylic acid)ruthenium(II) Complexes and the Effect of Protonation on Charge-Transfer Sensitization of Nanocrystalline Titania. Inorganic Chemistry, 1999, 38, 6298-6305.	1.9	1,020
44	Materials interface engineering for solution-processed photovoltaics. Nature, 2012, 488, 304-312.	13.7	1,000
45	High-Efficiency Organic-Dye- Sensitized Solar Cells Controlled by Nanocrystalline-TiO2 Electrode Thickness. Advanced Materials, 2006, 18, 1202-1205.	11.1	997
46	Not All That Glitters Is Gold: Metal-Migration-Induced Degradation in Perovskite Solar Cells. ACS Nano, 2016, 10, 6306-6314.	7.3	966
47	Thermodynamically stabilized Î²-CsPbI ₃ â€“based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	6.0	963
48	The rapid evolution of highly efficient perovskite solar cells. Energy and Environmental Science, 2017, 10, 710-727.	15.6	942
49	Towards stable and commercially available perovskite solar cells. Nature Energy, 2016, 1, .	19.8	941
50	Probing the photoelectrochemical properties of hematite (Î±-Fe₂O₃) electrodes using hydrogen peroxide as a hole scavenger. Energy and Environmental Science, 2011, 4, 958-964.	15.6	933
51	Conformal quantum dotâ€“SnO ₂ layers as electron transporters for efficient perovskite solar cells. Science, 2022, 375, 302-306.	6.0	872
52	Dye-sensitized solar cells for efficient power generation under ambient lighting. Nature Photonics, 2017, 11, 372-378.	15.6	871
53	Photoelectrochemical Water Splitting with Mesoporous Hematite Prepared by a Solution-Based Colloidal Approach. Journal of the American Chemical Society, 2010, 132, 7436-7444.	6.6	865
54	Perovskite as Light Harvester: A Game Changer in Photovoltaics. Angewandte Chemie - International Edition, 2014, 53, 2812-2824.	7.2	862

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55	First-Principles Modeling of Mixed Halide Organometal Perovskites for Photovoltaic Applications. Journal of Physical Chemistry C, 2013, 117, 13902-13913.	1.5	861
56	Artificial photosynthesis. 1. Photosensitization of titania solar cells with chlorophyll derivatives and related natural porphyrins. The Journal of Physical Chemistry, 1993, 97, 6272-6277.	2.9	852
57	Effect of Annealing Temperature on Film Morphology of Organicâ€"Inorganic Hybrid Pervoskite Solidâ€State Solar Cells. Advanced Functional Materials, 2014, 24, 3250-3258.	7.8	850
58	A molecularly engineered hole-transporting material for efficient perovskite solar cells. Nature Energy, 2016, 1, .	19.8	816
59	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. The Journal of Physical Chemistry, 1996, 100, 20056-20062.	2.9	815
60	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	19.8	797
61	Holeâ€Transport Materials for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 14522-14545.	7.2	786
62	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells. ACS Nano, 2010, 4, 3374-3380.	7.3	781
63	Inorganic hole conductor-based lead halide perovskite solar cells with 12.4% conversion efficiency. Nature Communications, 2014, 5, 3834.	5.8	769
64	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763
65	Highly Efficient Mesoscopic Dyeâ€Sensitized Solar Cells Based on Donorâ€"Acceptorâ€Substituted Porphyrins. Angewandte Chemie - International Edition, 2010, 49, 6646-6649.	7.2	762
66	Improving efficiency and stability of perovskite solar cells with photocurable fluoropolymers. Science, 2016, 354, 203-206.	6.0	748
67	Enhanced electronic properties in mesoporous TiO2 via lithium doping for high-efficiency perovskite solar cells. Nature Communications, 2016, 7, 10379.	5.8	744
68	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. Energy and Environmental Science, 2016, 9, 3128-3134.	15.6	720
69	Impedance Spectroscopic Analysis of Lead Iodide Perovskite-Sensitized Solid-State Solar Cells. ACS Nano, 2014, 8, 362-373.	7.3	663
70	Unravelling the mechanism of photoinduced charge transfer processes in lead iodide perovskite solar cells. Nature Photonics, 2014, 8, 250-255.	15.6	648
71	Semi-transparent perovskite solar cells for tandems with silicon and CIGS. Energy and Environmental Science, 2015, 8, 956-963.	15.6	630
72	Molecular Engineering of Organic Sensitizers for Dye-Sensitized Solar Cell Applications. Journal of the American Chemical Society, 2008, 130, 6259-6266.	6.6	625

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73	High-performance dye-sensitized solar cells based on solvent-free electrolytes produced from eutectic melts. Nature Materials, 2008, 7, 626-630.	13.3	622
74	Exploration of the compositional space for mixed lead halogen perovskites for high efficiency solar cells. Energy and Environmental Science, 2016, 9, 1706-1724.	15.6	622
75	A solvent- and vacuum-free route to large-area perovskite films for efficient solar modules. Nature, 2017, 550, 92-95.	13.7	618
76	Parameters Influencing Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. Journal of Physical Chemistry B, 2000, 104, 538-547.	1.2	613
77	Ionic polarization-induced currentâ€"voltage hysteresis in CH3NH3PbX3 perovskite solar cells. Nature Communications, 2016, 7, 10334.	5.8	602
78	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2009, 113, 772-782.	1.5	594
79	Interpretation and evolution of open-circuit voltage, recombination, ideality factor and subgap defect states during reversible light-soaking and irreversible degradation of perovskite solar cells. Energy and Environmental Science, 2018, 11, 151-165.	15.6	586
80	Control of dark current in photoelectrochemical (TiO2/Iâ€"â€"I3â€") and dye-sensitized solar cells. Chemical Communications, 2005, , 4351.	2.2	561
81	Bication lead iodide 2D perovskite component to stabilize inorganic Î±-CsPbI ₃ perovskite phase for high-efficiency solar cells. Science Advances, 2017, 3, e1700841.	4.7	557
82	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. Nature Communications, 2012, 3, 631.	5.8	554
83	Systematic investigation of the impact of operation conditions on the degradation behaviour of perovskite solar cells. Nature Energy, 2018, 3, 61-67.	19.8	544
84	Cu₂O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. Nano Letters, 2016, 16, 1848-1857.	4.5	542
85	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536
86	High efficiency stable inverted perovskite solar cells without current hysteresis. Energy and Environmental Science, 2015, 8, 2725-2733.	15.6	533
87	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. Science, 2020, 370, .	6.0	530
88	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. Energy and Environmental Science, 2017, 10, 604-613.	15.6	525
89	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543.	4.7	524
90	An organic redox electrolyte to rival triiodide/iodide in dye-sensitized solar cells. Nature Chemistry, 2010, 2, 385-389.	6.6	510

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91	Thermal Behavior of Methylammonium Lead-Trihalide Perovskite Photovoltaic Light Harvesters. Chemistry of Materials, 2014, 26, 6160-6164.	3.2	502
92	Efficient Far Red Sensitization of Nanocrystalline TiO₂ Films by an Unsymmetrical Squaraine Dye. Journal of the American Chemical Society, 2007, 129, 10320-10321.	6.6	497
93	Boosting the performance of Cu2O photocathodes for unassisted solar water splitting devices. Nature Catalysis, 2018, 1, 412-420.	16.1	489
94	Pseudocapacitive Lithium Storage in TiO2(B). Chemistry of Materials, 2005, 17, 1248-1255.	3.2	467
95	WO₃âˆ’Fe₂O₃ Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. Chemistry of Materials, 2009, 21, 2862-2867.	3.2	455
96	The Significance of Ion Conduction in a Hybrid Organicâ€“Inorganic Leadâ€Iodideâ€Based Perovskite Photosensitizer. Angewandte Chemie - International Edition, 2015, 54, 7905-7910.	7.2	447
97	Highly efficient water splitting by a dual-absorber tandem cell. Nature Photonics, 2012, 6, 824-828.	15.6	437
98	Solar conversion of CO2 to CO using Earth-abundant electrocatalysts prepared by atomic layer modification of CuO. Nature Energy, 2017, 2, .	19.8	436
99	Predicting the Openâ€Circuit Voltage of CH₃NH₃PbI₃ Perovskite Solar Cells Using Electroluminescence and Photovoltaic Quantum Efficiency Spectra: the Role of Radiative and Nonâ€Radiative Recombination. Advanced Energy Materials, 2015, 5, 1400812.	10.2	425
100	Hydrogen evolution from a copper(I) oxide photocathode coated with an amorphous molybdenum sulphide catalyst. Nature Communications, 2014, 5, 3059.	5.8	418
101	Highly efficient semiconducting TiO2 photoelectrodes prepared by aerosol pyrolysis. Electrochimica Acta, 1995, 40, 643-652.	2.6	413
102	Dynamics of photogenerated holes in surface modified Î±-Fe ₂ O ₃ photoanodes for solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15640-15645.	3.3	413
103	Perovskite Solar Cells: From the Atomic Level to Film Quality and Device Performance. Angewandte Chemie - International Edition, 2018, 57, 2554-2569.	7.2	413
104	Large tunable photoeffect on ion conduction in halide perovskites and implications for photodecomposition. Nature Materials, 2018, 17, 445-449.	13.3	410
105	Significant Improvement of Dyeâ€Sensitized Solar Cell Performance by Small Structural Modification in Ï€â€Conjugated Donorâ€“Acceptor Dyes. Advanced Functional Materials, 2012, 22, 1291-1302.	7.8	404
106	CoII(dbbip)22+ Complex Rivals Tri-iodide/Iodide Redox Mediator in Dye-Sensitized Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 10461-10464.	1.2	402
107	Ultrathin films on copper(i) oxide water splitting photocathodes: a study on performance and stability. Energy and Environmental Science, 2012, 5, 8673.	15.6	401
108	Nanocrystalline Rutile Electron Extraction Layer Enables Low-Temperature Solution Processed Perovskite Photovoltaics with 13.7% Efficiency. Nano Letters, 2014, 14, 2591-2596.	4.5	397

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109	Back Electronâ€"Hole Recombination in Hematite Photoanodes for Water Splitting. Journal of the American Chemical Society, 2014, 136, 2564-2574.	6.6	393
110	Electrodeposited Nanocomposite n-p Heterojunctions for Solid-State Dye-Sensitized Photovoltaics. Advanced Materials, 2000, 12, 1263-1267.	11.1	392
111	Europium-Doped CsPbI2Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. Joule, 2019, 3, 205-214.	11.7	387
112	The synergistic effect of H₂O and DMF towards stable and 20% efficiency inverted perovskite solar cells. Energy and Environmental Science, 2017, 10, 808-817.	15.6	383
113	A Simple 3,4â€Ethylenedioxythiophene Based Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 4085-4088.	7.2	379
114	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
115	Controlling Photoactivity in Ultrathin Hematite Films for Solar Waterâ€Splitting. Advanced Functional Materials, 2010, 20, 1099-1107.	7.8	357
116	Diffusion engineering of ions and charge carriers for stable efficient perovskite solar cells. Nature Communications, 2017, 8, 15330.	5.8	356
117	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. Nano Letters, 2011, 11, 5501-5506.	4.5	350
118	Cooperative Effect of Adsorbed Cations and Iodide on the Interception of Back Electron Transfer in the Dye Sensitization of Nanocrystalline TiO2. Journal of Physical Chemistry B, 2000, 104, 1791-1795.	1.2	341
119	Self-Organization of TiO2Nanoparticles in Thin Films. Chemistry of Materials, 1998, 10, 2419-2425.	3.2	334
120	High-Efficiency and Stable Mesoscopic Dye-Sensitized Solar Cells Based on a High Molar Extinction Coefficient Ruthenium Sensitizer and Nonvolatile Electrolyte. Advanced Materials, 2007, 19, 1133-1137.	11.1	332
121	Cyclopentadithiophene Bridged Donorâ€"Acceptor Dyes Achieve High Power Conversion Efficiencies in Dyeâ€Sensitized Solar Cells Based on the <i>tris</i>â€Cobalt Bipyridine Redox Couple. ChemSusChem, 2011, 4, 591-594.	3.6	327
122	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 16172-16178.	6.6	321
123	Isomerâ€Pure Bisâ€PCBMâ€Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. Advanced Materials, 2017, 29, 1606806.	11.1	320
124	Panchromatic engineering for dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 842-857.	15.6	319
125	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA)_{<i>x</i>}(FA)_{1â€"<i>x</i>}PbI₃ Hybrid Perovskites from Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 14173-14180.	6.6	317
126	The Transient Photocurrent and Photovoltage Behavior of a Hematite Photoanode under Working Conditions and the Influence of Surface Treatments. Journal of Physical Chemistry C, 2012, 116, 26707-26720.	1.5	315

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127	Methodologies toward Highly Efficient Perovskite Solar Cells. Small, 2018, 14, e1704177.	5.2	315
128	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. Science Advances, 2016, 2, e1601156.	4.7	307
129	Synthesis and Characterization of High-Photoactivity Electrodeposited Cu₂O Solar Absorber by Photoelectrochemistry and Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 7341-7350.	1.5	305
130	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757.	11.1	303
131	Nanostructured TiO2/CH3NH3PbI3 heterojunction solar cells employing spiro-OMeTAD/Co-complex as hole-transporting material. Journal of Materials Chemistry A, 2013, 1, 11842.	5.2	301
132	Efficient photosynthesis of carbon monoxide from CO2 using perovskite photovoltaics. Nature Communications, 2015, 6, 7326.	5.8	295
133	Real-space observation of unbalanced charge distribution inside a perovskite-sensitized solar cell. Nature Communications, 2014, 5, 5001.	5.8	294
134	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. Joule, 2018, 2, 1108-1117.	11.7	291
135	Decoupling Feature Size and Functionality in Solution-Processed, Porous Hematite Electrodes for Solar Water Splitting. Nano Letters, 2010, 10, 4155-4160.	4.5	290
136	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. Advanced Functional Materials, 2014, 24, 7681-7688.	7.8	289
137	How the formation of interfacial charge causes hysteresis in perovskite solar cells. Energy and Environmental Science, 2018, 11, 2404-2413.	15.6	289
138	Identifying and suppressing interfacial recombination to achieve high open-circuit voltage in perovskite solar cells. Energy and Environmental Science, 2017, 10, 1207-1212.	15.6	288
139	Preparation of TiO2 (anatase) films on electrodes by anodic oxidative hydrolysis of TiCl3. Journal of Electroanalytical Chemistry, 1993, 346, 291-307.	1.9	283
140	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. Nature Communications, 2017, 8, 14350.	5.8	282
141	The Rise of Highly Efficient and Stable Perovskite Solar Cells. Accounts of Chemical Research, 2017, 50, 487-491.	7.6	282
142	Enhancing Efficiency of Perovskite Solar Cells via Nâ€doped Graphene: Crystal Modification and Surface Passivation. Advanced Materials, 2016, 28, 8681-8686.	11.1	281
143	Insight into Dâ€"Aâˆ'Ï€â€"A Structured Sensitizers: A Promising Route to Highly Efficient and Stable Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 9307-9318.	4.0	278
144	Suppressing defects through the synergistic effect of a Lewis base and a Lewis acid for highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 3480-3490.	15.6	274

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145	Rate Law Analysis of Water Oxidation on a Hematite Surface. Journal of the American Chemical Society, 2015, 137, 6629-6637.	6.6	273
146	Covalent Immobilization of a Molecular Catalyst on Cu₂O Photocathodes for CO₂ Reduction. Journal of the American Chemical Society, 2016, 138, 1938-1946.	6.6	272
147	Enhancement in the Performance of Ultrathin Hematite Photoanode for Water Splitting by an Oxide Underlayer. Advanced Materials, 2012, 24, 2699-2702.	11.1	271
148	Gallium arsenide p-i-n radial structures for photovoltaic applications. Applied Physics Letters, 2009, 94, .	1.5	270
149	A Stable Blue Photosensitizer for Color Palette of Dye-Sensitized Solar Cells Reaching 12.6% Efficiency. Journal of the American Chemical Society, 2018, 140, 2405-2408.	6.6	270
150	Selective Câ€“C Coupling in Carbon Dioxide Electroreduction via Efficient Spillover of Intermediates As Supported by Operando Raman Spectroscopy. Journal of the American Chemical Society, 2019, 141, 18704-18714.	6.6	270
151	The Role of Surface States in the Ultrafast Photoinduced Electron Transfer from Sensitizing Dye Molecules to Semiconductor Colloids. Journal of Physical Chemistry B, 2000, 104, 8995-9003.	1.2	269
152	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. Energy and Environmental Science, 2011, 4, 2512.	15.6	269
153	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	5.8	268
154	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. Nature Communications, 2018, 9, 4482.	5.8	266
155	Recent developments in redox electrolytes for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9394.	15.6	265
156	Dynamics of photogenerated holes in nanocrystalline Î±-Fe₂O₃electrodes for water oxidation probed by transient absorption spectroscopy. Chemical Communications, 2011, 47, 716-718.	2.2	261
157	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. Chemical Science, 2011, 2, 949.	3.7	259
158	Nanocrystalline Mesoporous Strontium Titanate as Photoelectrode Material for Photosensitized Solar Devices:â€‰ Increasing Photovoltage through Flatband Potential Engineering. Journal of Physical Chemistry B, 1999, 103, 9328-9332.	1.2	258
159	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH₃NH₃PbI₃. Advanced Materials, 2016, 28, 2910-2915.	11.1	258
160	Dye Dependent Regeneration Dynamics in Dye Sensitized Nanocrystalline Solar Cells:â€‰ Evidence for the Formation of a Ruthenium Bipyridyl Cation/Iodide Intermediate. Journal of Physical Chemistry C, 2007, 111, 6561-6567.	1.5	257
161	Alkyl Chain Barriers for Kinetic Optimization in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 16376-16383.	6.6	254
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