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	Multiâ€Length Scale Structure of 2D/3D Dionâ€"Jacobson Hybrid Perovskites Based on an Aromatic Diammonium Spacer. Small, 2022, 18, e2104287.	5.2	10
2	Revisiting the Impact of Morphology and Oxidation State of Cu on CO₂ Reduction Using Electrochemical Flow Cell. Journal of Physical Chemistry Letters, 2022, 13, 345-351.	2.1	13
3	Interfacial engineering from material to solvent: A mechanistic understanding on stabilizing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.svg"><mml:mi>Î±</mml:mi></mml:math>-formamidinium lead triiodide perovskite photovoltaics. Nano Energy, 2022, 94, 106924.	8.2	13
4	Solar Water Splitting Using Earthâ€Abundant Electrocatalysts Driven by Highâ€Efficiency Perovskite Solar Cells. ChemSusChem, 2022, 15, .	3.6	12
5	A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics. Nature Communications, 2022, 13, 89.	5.8	77
6	Effect of friction stir welding tool hardness on wear behaviour in friction stir welding of AA-6060 T66. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1333-1345.	0.7	3
7	Solid-state synthesis of CdFe2O4 binary catalyst for potential application in renewable hydrogen fuel generation. Scientific Reports, 2022, 12, 1632.	1.6	5
8	Conformal quantum dotâ€"SnO ₂ layers as electron transporters for efficient perovskite solar cells. Science, 2022, 375, 302-306.	6.0	872
9	CNT-based bifacial perovskite solar cells toward highly efficient 4-terminal tandem photovoltaics. Energy and Environmental Science, 2022, 15, 1536-1544.	15.6	39
10	Efficient and Stable Large Bandgap MAPbBr₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. ACS Energy Letters, 2022, 7, 1112-1119.	8.8	21
11	Molecularly Engineered Low-Cost Organic Hole-Transporting Materials for Perovskite Solar Cells: The Substituent Effect on Non-fused Three-Dimensional Systems. ACS Applied Energy Materials, 2022, 5, 3156-3165.	2.5	2
12	Reversible Pressureâ€Dependent Mechanochromism of Dionâ€"Jacobson and Ruddlesdenâ€"Popper Layered Hybrid Perovskites. Advanced Materials, 2022, 34, e2108720.	11.1	19
13	Transparency and Morphology Control of Cu₂O Photocathodes via an <i>in Situ</i> Electroconversion. ACS Energy Letters, 2022, 7, 1618-1625.	8.8	18
14	Nanosegregation in arene-perfluoroarene Ï€-systems for hybrid layered Dionâ€"Jacobson perovskites. Nanoscale, 2022, 14, 6771-6776.	2.8	7
15	Kinetics and energeticsÂof metal halide perovskite conversion reactions at the nanoscale. Communications Materials, 2022, 3, .	2.9	12
16	Suppressed recombination for monolithic inorganic perovskite/silicon tandem solar cells with an approximate efficiency of 23%. EScience, 2022, 2, 339-346.	25.0	78
17	Efficient and stable noble-metal-free catalyst for acidic water oxidation. Nature Communications, 2022, 13, 2294.	5.8	89
18	In situ growth of graphene on both sides of a Cuâ€"Ni alloy electrode for perovskite solar cells with improved stability. Nature Energy, 2022, 7, 520-527.	19.8	68

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19	Photoelectrochemical Oxygen Evolution on Mesoporous Hematite Films Prepared from Maghemite Nanoparticles. Journal of the Electrochemical Society, 2022, 169, 056522.	1.3	0
20	Over 24% efficient MA-free CsxFA1âˆ’xPbX3 perovskite solar cells. Joule, 2022, 6, 1344-1356.	11.7	58
21	Covalent Organic Framework Nanoplates Enable Solution-Processed Crystalline Nanofilms for Photoelectrochemical Hydrogen Evolution. Journal of the American Chemical Society, 2022, 144, 10291-10300.	6.6	33
22	Photo Deâ€Mixing in Dionâ€Jacobson 2D Mixed Halide Perovskites. Advanced Energy Materials, 2022, 12, .	10.2	14
23	Thiocyanate-Mediated Dimensionality Transformation of Low-Dimensional Perovskites for Photovoltaics. Chemistry of Materials, 2022, 34, 6331-6338.	3.2	5
24	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. ACS Energy Letters, 2021, 6, 208-215.	8.8	67
25	Influence of different Ni coatings on the long-term behavior of ultrasonic welded EN AW 1370 cable/EN CW 004A arrestor dissimilar joints. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 429-440.	1.3	1
26	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. Energy and Environmental Science, 2021, 14, 3141-3151.	15.6	20
27	Characterization and Analysis of Effective Wear Mechanisms on FSW Tools. Minerals, Metals and Materials Series, 2021, , 21-34.	0.3	3
28	Modulation of perovskite crystallization processes towards highly efficient and stable perovskite solar cells with MXene quantum dot-modified SnO₂. Energy and Environmental Science, 2021, 14, 3447-3454.	15.6	115
29	Spectroelectrochemical and Chemical Evidence of Surface Passivation at Zinc Ferrite (ZnFe₂O₄) Photoanodes for Solar Water Oxidation. Advanced Functional Materials, 2021, 31, 2010081.	7.8	26
30	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24%. Journal of the American Chemical Society, 2021, 143, 3231-3237.	6.6	152
31	Molecular Origin of the Asymmetric Photoluminescence Spectra of CsPbBr₃ at Low Temperature. Journal of Physical Chemistry Letters, 2021, 12, 2699-2704.	2.1	12
32	Organic Ammonium Halide Modulators as Effective Strategy for Enhanced Perovskite Photovoltaic Performance. Advanced Science, 2021, 8, 2004593.	5.6	57
33	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. Jacs Au, 2021, 1, 409-426.	3.6	66
34	Xanthanâ€Based Hydrogel for Stable and Efficient Quasiâ€Solid Truly Aqueous Dyeâ€Sensitized Solar Cell with Cobalt Mediator. Solar Rrl, 2021, 5, 2000823.	3.1	65
35	Formation of Highâ€Performance Multiâ€Cation Halide Perovskites Photovoltaics by Î´â€CsPbI₃/Î´â€RbPbI₃ Seedâ€Assisted Heterogeneous Nucleation. Advanced Energy Materials, 2021, 11, 2003785.	10.2	32
36	How free excitonâ€"exciton annihilation lets bound exciton emission dominate the photoluminescence of 2D-perovskites under high-fluence pulsed excitation at cryogenic temperatures. Journal of Applied Physics, 2021, 129, .	1.1	11

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37	Chemically tailored molecular surface modifiers for efficient and stable perovskite photovoltaics. SmartMat, 2021, 2, 33-37.	6.4	47
38	Orientationâ€Engineered Smallâ€Molecule Semiconductors as Dopantâ€Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2011270.	7.8	41
39	A molecular photosensitizer achieves a Voc of 1.24â€‰V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. Nature Communications, 2021, 12, 1777.	5.8	196
40	Pseudo-halide anion engineering for Î±-FAPbI3 perovskite solar cells. Nature, 2021, 592, 381-385.	13.7	2,095
41	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure Î±-FAPbI ₃. Science Advances, 2021, 7, .	4.7	49
42	Quantifying Stabilized Phase Purity in Formamidinium-Based Multiple-Cation Hybrid Perovskites. Chemistry of Materials, 2021, 33, 2769-2776.	3.2	13
43	Function and Electronic Structure of the SnO2 Buffer Layer between the Î±-Fe2O3 Water Oxidation Photoelectrode and the Transparent Conducting Oxide Current Collector. Journal of Physical Chemistry C, 2021, 125, 9158-9168.	1.5	13
44	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. Nature Communications, 2021, 12, 2808.	5.8	91
45	Benzylammoniumâ€Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. Advanced Functional Materials, 2021, 31, 2101163.	7.8	28
46	Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. Advanced Energy Materials, 2021, 11, 2101082.	10.2	21
47	Gold-in-copper at low *CO coverage enables efficient electromethanation of CO2. Nature Communications, 2021, 12, 3387.	5.8	70
48	Surface Reconstruction Engineering with Synergistic Effect of Mixedâ€Salt Passivation Treatment toward Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102902.	7.8	57
49	Copolymerâ€Templated Nickel Oxide for Highâ€Efficiency Mesoscopic Perovskite Solar Cells in Inverted Architecture. Advanced Functional Materials, 2021, 31, 2102237.	7.8	51
50	Cyclopentadieneâ€Based Holeâ€Transport Material for Costâ€Reduced Stabilized Perovskite Solar Cells with Power Conversion Efficiencies Over 23%. Advanced Energy Materials, 2021, 11, 2003953.	10.2	24
51	Multimodal hostâ€“guest complexation for efficient and stable perovskite photovoltaics. Nature Communications, 2021, 12, 3383.	5.8	72
52	Layered Hybrid Formamidinium Lead Iodide Perovskites: Challenges and Opportunities. Accounts of Chemical Research, 2021, 54, 2729-2740.	7.6	48
53	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. Joule, 2021, 5, 1587-1601.	11.7	120
54	Methylamine Gas Treatment Affords Improving Semitransparency, Efficiency, and Stability of CH₃NH₃PbBr₃â€Based Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100277.	3.1	11

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55	Microâ€Electrode with Fast Mass Transport for Enhancing Selectivity of Carbonaceous Products in Electrochemical CO₂ Reduction. Advanced Functional Materials, 2021, 31, 2103966.	7.8	16
56	Efficient and stable inverted perovskite solar cells with very high fill factors via incorporation of star-shaped polymer. Science Advances, 2021, 7, .	4.7	195
57	Advances in friction stir welding by separate control of shoulder and probe. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1931-1941.	1.3	0
58	Xanthanâ€Based Hydrogel for Stable and Efficient Quasiâ€Solid Truly Aqueous Dyeâ€Sensitized Solar Cell with Cobalt Mediator. Solar Rrl, 2021, 5, 2170074.	3.1	16
59	Crystalâ€Sizeâ€Induced Band Gap Tuning in Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 21368-21376.	7.2	28
60	Naphthalenediimide/Formamidinium-Based Low-Dimensional Perovskites. Chemistry of Materials, 2021, 33, 6412-6420.	3.2	16
61	Identifying Reactive Sites and Surface Traps in Chalcopyrite Photocathodes. Angewandte Chemie - International Edition, 2021, 60, 23651-23655.	7.2	11
62	New Insights into the Interface of Electrochemical Flow Cells for Carbon Dioxide Reduction to Ethylene. Journal of Physical Chemistry Letters, 2021, 12, 7583-7589.	2.1	21
63	Identifizierung von reaktiven Zentren und OberflÃchenfallen in Chalkopyritâ€Photokathoden. Angewandte Chemie, 2021, 133, 23843-23847.	1.6	2
64	Crystalâ€Sizeâ€Induced Band Gap Tuning in Perovskite Films. Angewandte Chemie, 2021, 133, 21538-21546.	1.6	10
65	Dopant Engineering for Spiroâ€OMeTAD Holeâ€Transporting Materials towards Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102124.	7.8	67
66	A Fully Printable Holeâ€Transporterâ€Free Semiâ€Transparent Perovskite Solar Cell. European Journal of Inorganic Chemistry, 2021, 2021, 3752-3760.	1.0	6
67	Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 3650-3660.	8.8	28
68	Nanoscale Phase Segregation in Supramolecular Ï€-Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. Journal of the American Chemical Society, 2021, 143, 1529-1538.	6.6	55
69	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. Energy and Environmental Science, 2021, 14, 5552-5562.	15.6	69
70	Unravelling the Behavior of Dionâ€"Jacobson Layered Hybrid Perovskites in Humid Environments. ACS Energy Letters, 2021, 6, 337-344.	8.8	44
71	Interfacial Passivation Engineering of Perovskite Solar Cells with Fill Factor over 82% and Outstanding Operational Stability on n-i-p Architecture. ACS Energy Letters, 2021, 6, 3916-3923.	8.8	115
72	Combined Precursor Engineering and Grain Anchoring Leading to MAâ€Free, Phaseâ€Pure, and Stable Î±â€Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 27299-27306.	7.2	46

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73	The Role of Alkyl Chain Length and Halide Counter Ion in Layered Dionâˆ’Jacobson Perovskites with Aromatic Spacers. Journal of Physical Chemistry Letters, 2021, 12, 10325-10332.	2.1	23
74	Carbazol-phenyl-phenothiazine-based sensitizers for dye-sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 26311-26322.	5.2	6
75	Structural and Compositional Investigations on the Stability of Cuprous Oxide Nanowire Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 55080-55091.	4.0	18
76	Ti1â€“graphene single-atom material for improved energy level alignment in perovskite solar cells. Nature Energy, 2021, 6, 1154-1163.	19.8	72
77	Tool Downscaling Effects on the Friction Stir Spot Welding Process and Properties of Current-Carrying Welded Aluminumâ€“Copper Joints for E-Mobility Applications. Metals, 2021, 11, 1949.	1.0	3
78	Halide Versus Nonhalide Salts: The Effects of Guanidinium Salts on the Structural, Morphological, and Photovoltaic Performances of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900234.	3.1	19
79	Molecular Engineering of Simple Metalâ€Free Organic Dyes Derived from Triphenylamine for Dyeâ€Sensitized Solar Cell Applications. ChemSusChem, 2020, 13, 212-220.	3.6	31
80	Suppressing recombination in perovskite solar cells via surface engineering of TiO2 ETL. Solar Energy, 2020, 197, 50-57.	2.9	53
81	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional ¹⁹F Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 1645-1654.	6.6	69
82	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. Joule, 2020, 4, 222-234.	11.7	88
83	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. Chemistry of Materials, 2020, 32, 529-536.	3.2	45
84	New Strategies for Defect Passivation in Highâ€Efficiency Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903090.	10.2	237
85	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie - International Edition, 2020, 59, 4691-4697.	7.2	61
86	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. Nature Chemistry, 2020, 12, 82-89.	6.6	189
87	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie, 2020, 132, 4721-4727.	1.6	0
88	A Hierarchical 3D TiO₂/Ni Nanostructure as an Efficient Holeâ€Extraction and Protection Layer for GaAs Photoanodes. ChemSusChem, 2020, 13, 6028-6036.	3.6	8
89	Formamidiniumâ€Based Dionâ€Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 2003428.	7.8	61
90	Minimizing the Trade-Off between Photocurrent and Photovoltage in Triple-Cation Mixed-Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 10188-10195.	2.1	36

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91	Fatigue Behavior of Conventional and Stationary Shoulder Friction Stir Welded EN AW-5754 Aluminum Alloy Using Load Increase Method. Metals, 2020, 10, 1510.	1.0	3
92	Effect of Corrosion and Surface Finishing on Fatigue Behavior of Friction Stir Welded EN AW-5754 Aluminum Alloy Using Various Tool Configurations. Materials, 2020, 13, 3121.	1.3	6
93	A Novel Approach for the Detection of Geometric- and Weight-Related FSW Tool Wear Using Stripe Light Projection. Journal of Manufacturing and Materials Processing, 2020, 4, 60.	1.0	7
94	Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. Journal of Materials Chemistry A, 2020, 8, 17732-17740.	5.2	14
95	Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2020, 30, 2004804.	7.8	30
96	Why choosing the right partner is important: stabilization of ternary CsyGUAxFA(1âˆ’yâˆ’x)PbI3 perovskites. Physical Chemistry Chemical Physics, 2020, 22, 20880-20890.	1.3	2
97	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. Journal of Physical Chemistry Letters, 2020, 11, 7285-7290.	2.1	34
98	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 19980-19991.	6.6	145
99	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 11428-11433.	6.6	107
100	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694.	7.2	201
101	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. ACS Energy Letters, 2020, 5, 2223-2230.	8.8	96
102	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824.	1.6	17
103	Hybrid 2D [Pb(CH₃NH₂)I₂]_{<i>n</i>} Coordination Polymer Precursor for Scalable Perovskite Deposition. ACS Energy Letters, 2020, 5, 2305-2312.	8.8	18
104	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2020, 132, 9410-9415.	1.6	17
105	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 9324-9329.	7.2	59
106	Interfacial and bulk properties of hole transporting materials in perovskite solar cells: spiro-MeTAD<i>versus</i>spiro-OMeTAD. Journal of Materials Chemistry A, 2020, 8, 8527-8539.	5.2	28
107	Liquid State and Zombie Dye Sensitized Solar Cells with Copper Bipyridine Complexes Functionalized with Alkoxy Groups. Journal of Physical Chemistry C, 2020, 124, 7071-7081.	1.5	24
108	A Blue Photosensitizer Realizing Efficient and Stable Green Solar Cells via Color Tuning by the Electrolyte. Advanced Materials, 2020, 32, 2000193.	11.1	24

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109	Compositional and Interface Engineering of Organic-Inorganic Lead Halide Perovskite Solar Cells. IScience, 2020, 23, 101359.	1.9	105
110	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. ACS Applied Energy Materials, 2020, 3, 7456-7463.	2.5	26
111	Atomistic Origins of the Limited Phase Stability of Cs⁺-Rich FA_{<i>x</i>}Cs_(1â€“<i>x</i>)PbI₃ Mixtures. Chemistry of Materials, 2020, 32, 2605-2614.	3.2	24
112	Electron-Selective Layers for Dye-Sensitized Solar Cells Based on TiO₂ and SnO₂. Journal of Physical Chemistry C, 2020, 124, 6512-6521.	1.5	34
113	Cu2O photocathodes with band-tail states assisted hole transport for standalone solar water splitting. Nature Communications, 2020, 11, 318.	5.8	139
114	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	19.8	797
115	A water-based and metal-free dye solar cell exceeding 7% efficiency using a cationic poly(3,4-ethylenedioxythiophene) derivative. Chemical Science, 2020, 11, 1485-1493.	3.7	91
116	Black phosphorus quantum dots in inorganic perovskite thin films for efficient photovoltaic application. Science Advances, 2020, 6, eaay5661.	4.7	95
117	Photovoltaic Performance of Porphyrinâ€Based Dyeâ€Sensitized Solar Cells with Binary Ionic Liquid Electrolytes. Energy Technology, 2020, 8, 2000092.	1.8	5
118	Reduction of friction stir welding setup loadability, process forces and weld seam width by tool scaling. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 786-795.	0.7	5
119	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757.	11.1	303
120	Guanidiniumâ€Assisted Surface Matrix Engineering for Highly Efficient Perovskite Quantum Dot Photovoltaics. Advanced Materials, 2020, 32, e2001906.	11.1	125
121	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. Science, 2020, 370, .	6.0	530
122	Thermodynamically stabilized Î²-CsPbI ₃ â€“based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	6.0	963
123	Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie, 2019, 131, 15178-15182.	1.6	33
124	Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie - International Edition, 2019, 58, 15036-15040.	7.2	150
125	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	5.8	268
126	Elucidation of photovoltage origin and charge transport in Cu₂O heterojunctions for solar energy conversion. Sustainable Energy and Fuels, 2019, 3, 2633-2641.	2.5	19

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127	<i>p</i>-Phenylene-bridged zinc phthalocyanine-dimer as hole-transporting material in perovskite solar cells. Journal of Porphyrins and Phthalocyanines, 2019, 23, 546-553.	0.4	12
128	Thermochemical Stability of Hybrid Halide Perovskites. ACS Energy Letters, 2019, 4, 2859-2870.	8.8	91
129	Efficient Perovskite Solar Cell Modules with High Stability Enabled by Iodide Diffusion Barriers. Joule, 2019, 3, 2748-2760.	11.7	167
130	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. Journal of the American Chemical Society, 2019, 141, 17659-17669.	6.6	104
131	Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. Nature Communications, 2019, 10, 4686.	5.8	105
132	Lowâ€Cost and Highly Efficient Carbonâ€Based Perovskite Solar Cells Exhibiting Excellent Longâ€Term Operational and UV Stability. Small, 2019, 15, e1904746.	5.2	83
133	Mechanoperovskites for Photovoltaic Applications: Preparation, Characterization, and Device Fabrication. Accounts of Chemical Research, 2019, 52, 3233-3243.	7.6	79
134	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
135	Charge Accumulation, Recombination, and Their Associated Time Scale in Efficient (GUA)<i>_x</i>(MA)_{1â€“<i>x</i>}PbI₃-Based Perovskite Solar Cells. ACS Omega, 2019, 4, 16840-16846.	1.6	25
136	PbZrTiO₃ ferroelectric oxide as an electron extraction material for stable halide perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 382-389.	2.5	35
137	Sequential catalysis enables enhanced Câ€“C coupling towards multi-carbon alkenes and alcohols in carbon dioxide reduction: a study on bifunctional Cu/Au electrocatalysts. Faraday Discussions, 2019, 215, 282-296.	1.6	56
138	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. Nature Communications, 2019, 10, 484.	5.8	88
139	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 4264-4273.	2.5	20
140	Performance of perovskite solar cells under simulated temperature-illumination real-world operating conditions. Nature Energy, 2019, 4, 568-574.	19.8	186
141	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543.	4.7	524
142	Ruddlesdenâ€“Popper Phases of Methylammonium-Based Two-Dimensional Perovskites with 5-Ammonium Valeric Acid AVA₂MA_{<i>n</i>â€“1}Pb_{<i>n</i>}I_{3<i>n</i>+1} with <i>n</i> = 1, 2, and 3. Journal of Physical Chemistry Letters, 2019, 10, 3543-3549.	2.1	35
143	An Oxa[5]helicene-Based Racemic Semiconducting Glassy Film for Photothermally Stable Perovskite Solar Cells. IScience, 2019, 15, 234-242.	1.9	36
144	Perovskite Solar Cells Based on Oligotriarylamine Hexaarylbenzene as Hole-Transporting Materials. Organic Letters, 2019, 21, 3261-3264.	2.4	12

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145	SnS Quantum Dots as Hole Transporter of Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 3822-3829.	2.5	26
146	Multifunctional Molecular Modulation for Efficient and Stable Hybrid Perovskite Solar Cells. Chimia, 2019, 73, 317.	0.3	19
147	Dopant-Free Hole-Transporting Polymers for Efficient and Stable Perovskite Solar Cells. Macromolecules, 2019, 52, 2243-2254.	2.2	50
148	Metal Coordination Complexes as Redox Mediators in Regenerative Dye-Sensitized Solar Cells. Inorganics, 2019, 7, 30.	1.2	79
149	Toward an alternative approach for the preparation of low-temperature titanium dioxide blocking underlayers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 10729-10738.	5.2	13
150	Dual effect of humidity on cesium lead bromide: enhancement and degradation of perovskite films. Journal of Materials Chemistry A, 2019, 7, 12292-12302.	5.2	74
151	A partially-planarised hole-transporting quart-<i>p</i>-phenylene for perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 4332-4335.	2.7	6
152	Supramolecular Engineering for Formamidiniumâ€Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solidâ€State NMR Spectroscopy. Advanced Energy Materials, 2019, 9, 1900284.	10.2	89
153	A tandem redox system with a cobalt complex and 2-azaadamantane-<i>N</i>-oxyl for fast dye regeneration and open circuit voltages exceeding 1 V. Journal of Materials Chemistry A, 2019, 7, 10998-11006.	5.2	8
154	Influence of Alkoxy Chain Length on the Properties of Twoâ€Dimensionally Expanded Azuleneâ€Coreâ€Based Holeâ€Transporting Materials for Efficient Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 6741-6752.	1.7	21
155	Engineering of Perovskite Materials Based on Formamidinium and Cesium Hybridization for High-Efficiency Solar Cells. Chemistry of Materials, 2019, 31, 1620-1627.	3.2	99
156	Photoelectrocatalytic arene Câ€“H amination. Nature Catalysis, 2019, 2, 366-373.	16.1	193
157	An ultrathin cobaltâ€“iron oxide catalyst for water oxidation on nanostructured hematite photoanodes. Journal of Materials Chemistry A, 2019, 7, 6012-6020.	5.2	57
158	Charge extraction via graded doping of hole transport layers gives highly luminescent and stable metal halide perovskite devices. Science Advances, 2019, 5, eaav2012.	4.7	116
159	Efficient stable graphene-based perovskite solar cells with high flexibility in device assembling <i>via</i> modular architecture design. Energy and Environmental Science, 2019, 12, 3585-3594.	15.6	102
160	Bimetallic Electrocatalysts for Carbon Dioxide Reduction. Chimia, 2019, 73, 928.	0.3	7
161	Understanding the Electrochemical Reduction of Carbon Dioxide at Copper Surfaces. ACS Symposium Series, 2019, , 209-223.	0.5	1
162	Strategic advantages of reactive polyiodide melts for scalable perovskite photovoltaics. Nature Nanotechnology, 2019, 14, 57-63.	15.6	75

#	Article	IF	Citations
163	Synergistic Crystal and Interface Engineering for Efficient and Stable Perovskite Photovoltaics. Advanced Energy Materials, 2019, 9, 1802646.	10.2	189
164	Scaling effects during friction stir welding of aluminum alloys with reduced tool aspect ratios. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 337-347.	1.3	9
165	Doping and phase segregation in Mn²⁺- and Co²⁺-doped lead halide perovskites from¹³³Cs and¹H NMR relaxation enhancement. Journal of Materials Chemistry A, 2019, 7, 2326-2333.	5.2	59
166	Siteâ€selective Synthesis of Î²â€[70]PCBMâ€like Fullerenes: Efficient Application in Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 3224-3228.	1.7	37
167	Europium-Doped CsPbI2Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. Joule, 2019, 3, 205-214.	11.7	387
168	A chain is as strong as its weakest link â€“ Stability study of MAPbI3 under light and temperature. Materials Today, 2019, 29, 10-19.	8.3	58
169	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dionâ€“Jacobson Two-Dimensional Perovskite Solar Cells. Nano Letters, 2019, 19, 150-157.	4.5	218
170	A <i>peri</i>â€Xanthenoxanthene Centered Columnarâ€Stacking Organic Semiconductor for Efficient, Photothermally Stable Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 945-948.	1.7	21
171	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 1-9.	2.8	15
172	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 8474698.	2.8	22
173	Solution-Processed Cu₂S Photocathodes for Photoelectrochemical Water Splitting. ACS Energy Letters, 2018, 3, 760-766.	8.8	89
174	Low-Temperature Nb-Doped SnO₂ Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 773-778.	8.8	157
175	Planar Perovskite Solar Cells with High Openâ€Circuit Voltage Containing a Supramolecular Iron Complex as Hole Transport Material Dopant. ChemPhysChem, 2018, 19, 1363-1370.	1.0	17
176	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 1145-1152.	8.8	125
177	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. Energy and Environmental Science, 2018, 11, 1779-1787.	15.6	148
178	Adamantanes Enhance the Photovoltaic Performance and Operational Stability of Perovskite Solar Cells by Effective Mitigation of Interfacial Defect States. Advanced Energy Materials, 2018, 8, 1800275.	10.2	106
179	Charge carrier chemistry in methylammonium lead iodide. Solid State Ionics, 2018, 321, 69-74.	1.3	37
180	Revealing the detailed path of sequential deposition for metal halide perovskite formation. Science Advances, 2018, 4, e1701402.	4.7	85

#	Article	IF	Citations
181	Carbon Nanoparticles in Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702719.	10.2	74
182	Formation of Stable Mixed Guanidiniumâ€"Methylammonium Phases with Exceptionally Long Carrier Lifetimes for High-Efficiency Lead Iodide-Based Perovskite Photovoltaics. Journal of the American Chemical Society, 2018, 140, 3345-3351.	6.6	235
183	Methodologies toward Highly Efficient Perovskite Solar Cells. Small, 2018, 14, e1704177.	5.2	315
184	Largeâ€Grain Tinâ€Rich Perovskite Films for Efficient Solar Cells via Metal Alloying Technique. Advanced Materials, 2018, 30, 1705998.	11.1	116
185	Poly(ethylene glycol)â€"[60]Fullereneâ€Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. ChemSusChem, 2018, 11, 1032-1039.	3.6	57
186	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
187	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706073.	7.8	58
188	Boosting the Efficiency of Perovskite Solar Cells with CsBrâ€Modified Mesoporous TiO₂ Beads as Electronâ€Selective Contact. Advanced Functional Materials, 2018, 28, 1705763.	7.8	115
189	Light-induced reactivity of gold and hybrid perovskite as a new possible degradation mechanism in perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 1780-1786.	5.2	132
190	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
191	One-step mechanochemical incorporation of an insoluble cesium additive for high performance planar heterojunction solar cells. Nano Energy, 2018, 49, 523-528.	8.2	95
192	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. Electrochimica Acta, 2018, 265, 194-201.	2.6	38
193	Metalâ€Halide Perovskites for Gate Dielectrics in Fieldâ€Effect Transistors and Photodetectors Enabled by PMMA Liftâ€Off Process. Advanced Materials, 2018, 30, e1707412.	11.1	51
194	Greener, Nonhalogenated Solvent Systems for Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1800177.	10.2	106
195	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. Joule, 2018, 2, 1108-1117.	11.7	291
196	Effect of Rubidium for Thermal Stability of Triple-cation Perovskite Solar Cells. Chemistry Letters, 2018, 47, 814-816.	0.7	24
197	Large tunable photoeffect on ion conduction in halide perovskites and implications for photodecomposition. Nature Materials, 2018, 17, 445-449.	13.3	410
198	Mesoscopic Oxide Double Layer as Electron Specific Contact for Highly Efficient and UV Stable Perovskite Photovoltaics. Nano Letters, 2018, 18, 2428-2434.	4.5	116

#	Article	IF	Citations
199	Perowskitâ€Solarzellen: atomare Ebene, SchichtqualitÃt und LeistungsfÃhigkeit der Zellen. Angewandte Chemie, 2018, 130, 2582-2598.	1.6	37
200	Perovskite Solar Cells: From the Atomic Level to Film Quality and Device Performance. Angewandte Chemie - International Edition, 2018, 57, 2554-2569.	7.2	413
201	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
202	Molecular Design of Efficient Organic Dâ€"Aâ€"â€"A Dye Featuring Triphenylamine as Donor Fragment for Application in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2018, 11, 494-502.	3.6	45
203	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702116.	10.2	130
204	Enhanced charge carrier mobility and lifetime suppress hysteresis and improve efficiency in planar perovskite solar cells. Energy and Environmental Science, 2018, 11, 78-86.	15.6	246
205	Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. Advanced Functional Materials, 2018, 28, 1702768.	7.8	18
206	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
207	Addition of adamantylammonium iodide to hole transport layers enables highly efficient and electroluminescent perovskite solar cells. Energy and Environmental Science, 2018, 11, 3310-3320.	15.6	137
208	Hydrothermally processed CuCrO₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. Journal of Materials Chemistry A, 2018, 6, 20327-20337.	5.2	85
209	Electrodeposition of porous CuSCN layers as hole-conducting material for perovskite solar cells. Mendeleev Communications, 2018, 28, 378-380.	0.6	9
210	Kinetics of Ion-Exchange Reactions in Hybrid Organicâ€"Inorganic Perovskite Thin Films Studied by In Situ Real-Time X-ray Scattering. Journal of Physical Chemistry Letters, 2018, 9, 6750-6754.	2.1	28
211	Stable and Efficient Organic Dye-Sensitized Solar Cell Based on Ionic Liquid Electrolyte. Joule, 2018, 2, 2145-2153.	11.7	94
212	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. Nature Communications, 2018, 9, 4482.	5.8	266
213	Illumination Time Dependent Learning in Dye Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 36602-36607.	4.0	7
214	High Open Circuit Voltage for Perovskite Solar Cells with S,Siâ€Heteropentaceneâ€Based Hole Conductors. European Journal of Inorganic Chemistry, 2018, 2018, 4573-4578.	1.0	10
215	Slow CH₃NH₃⁺ Diffusion in CH₃NH₃PbI₃ under Light Measured by Solid-State NMR and Tracer Diffusion. Journal of Physical Chemistry C, 2018, 122, 21803-21806.	1.5	46
216	Interaction of oxygen with halide perovskites. Journal of Materials Chemistry A, 2018, 6, 10847-10855.	5.2	140

#	Article	IF	Citations
217	Highly Efficient Perovskite Solar Cells with Gradient Bilayer Electron Transport Materials. Nano Letters, 2018, 18, 3969-3977.	4.5	147
218	Boosting the performance of Cu2O photocathodes for unassisted solar water splitting devices. Nature Catalysis, 2018, 1, 412-420.	16.1	489
219	Phase Segregation in Potassium-Doped Lead Halide Perovskites from ³⁹K Solid-State NMR at 21.1 T. Journal of the American Chemical Society, 2018, 140, 7232-7238.	6.6	130
220	Improving the stability and performance of perovskite solar cells <i>via</i> off-the-shelf post-device ligand treatment. Energy and Environmental Science, 2018, 11, 2253-2262.	15.6	181
221	Elucidation of Charge Recombination and Accumulation Mechanism in Mixed Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 15149-15154.	1.5	59
222	Dedoping of Lead Halide Perovskites Incorporating Monovalent Cations. ACS Nano, 2018, 12, 7301-7311.	7.3	101
223	Novel p-dopant toward highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 2985-2992.	15.6	216
224	Reduced Graphene Oxide as a Stabilizing Agent in Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800416.	1.9	45
225	Effect of Coordination Sphere Geometry of Copper Redox Mediators on Regeneration and Recombination Behavior in Dye-Sensitized Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 4950-4962.	2.5	49
226	Electronâ€Affinityâ€Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2018, 130, 14321-14324.	1.6	26
227	Insights about the Absence of Rb Cation from the 3D Perovskite Lattice: Effect on the Structural, Morphological, and Photophysical Properties and Photovoltaic Performance. Small, 2018, 14, e1802033.	5.2	24
228	Electronâ€Affinityâ€Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 14125-14128.	7.2	56
229	How the formation of interfacial charge causes hysteresis in perovskite solar cells. Energy and Environmental Science, 2018, 11, 2404-2413.	15.6	289
230	Roomâ€Temperature Formation of Highly Crystalline Multication Perovskites for Efficient, Lowâ€Cost Solar Cells. Advanced Materials, 2017, 29, 1606258.	11.1	124
231	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. Electrochimica Acta, 2017, 227, 194-202.	2.6	63
232	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
233	Toward All Roomâ€Temperature, Solutionâ€Processed, Highâ€Performance Planar Perovskite Solar Cells: A New Scheme of Pyridineâ€Promoted Perovskite Formation. Advanced Materials, 2017, 29, 1604695.	11.1	178
234	High Temperatureâ€Stable Perovskite Solar Cell Based on Lowâ€Cost Carbon Nanotube Hole Contact. Advanced Materials, 2017, 29, 1606398.	11.1	209

#	Article	IF	Citations
235	Stabilization of the Perovskite Phase of Formamidinium Lead Triiodide by Methylammonium, Cs, and/or Rb Doping. Journal of Physical Chemistry Letters, 2017, 8, 1191-1196.	2.1	114
236	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. Nature Communications, 2017, 8, 14280.	5.8	83
237	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
238	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. Journal of Materials Chemistry C, 2017, 5, 2833-2843.	2.7	52
239	Isomerâ€Pure Bisâ€PCBMâ€Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. Advanced Materials, 2017, 29, 1606806.	11.1	320
240	Redox Catalysis for Improved Counterâ€Electrode Kinetics in Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2017, 4, 1356-1361.	1.7	5
241	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. Nature Communications, 2017, 8, 14350.	5.8	282
242	The rapid evolution of highly efficient perovskite solar cells. Energy and Environmental Science, 2017, 10, 710-727.	15.6	942
243	Long term stability of air processed inkjet infiltrated carbon-based printed perovskite solar cells under intense ultra-violet light soaking. Journal of Materials Chemistry A, 2017, 5, 4797-4802.	5.2	80
244	Mechanosynthesis of pure phase mixed-cation MA_xFA_{1âˆ’x}PbI₃hybrid perovskites: photovoltaic performance and electrochemical properties. Sustainable Energy and Fuels, 2017, 1, 689-693.	2.5	78
245	Nondestructive Probing of Perovskite Silicon Tandem Solar Cells Using Multiwavelength Photoluminescence Mapping. IEEE Journal of Photovoltaics, 2017, 7, 1081-1086.	1.5	24
246	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. Nature Communications, 2017, 8, 15198.	5.8	177
247	Function Follows Form: Correlation between the Growth and Local Emission of Perovskite Structures and the Performance of Solar Cells. Advanced Functional Materials, 2017, 27, 1701433.	7.8	26
248	Multistep Photoluminescence Decay Reveals Dissociation of Geminate Charge Pairs in Organolead Trihalide Perovskites. Advanced Energy Materials, 2017, 7, 1700405.	10.2	8
249	Dye-sensitized solar cells for efficient power generation under ambient lighting. Nature Photonics, 2017, 11, 372-378.	15.6	871
250	The effect of illumination on the formation of metal halide perovskite films. Nature, 2017, 545, 208-212.	13.7	242
251	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. Chemistry of Materials, 2017, 29, 587-594.	3.2	68
252	Understanding the limit and potential in emerging perovskite solar cells. , 2017, , .		1

#	Article	IF	Citations
253	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI6]4âˆ’ cage nanoparticles. Nature Communications, 2017, 8, 15688.	5.8	191
254	Cation Dynamics in 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, 10055-10061.	6.6	209
255	Hill climbing hysteresis of perovskiteâ€based solar cells: a maximum power point tracking investigation. Progress in Photovoltaics: Research and Applications, 2017, 25, 942-950.	4.4	40
256	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. Nature Communications, 2017, 8, 15390.	5.8	229
257	High performance carbon-based printed perovskite solar cells with humidity assisted thermal treatment. Journal of Materials Chemistry A, 2017, 5, 12060-12067.	5.2	90
258	The Nature of Ion Conduction in Methylammonium Lead Iodide: A Multimethod Approach. Angewandte Chemie, 2017, 129, 7863-7867.	1.6	18
259	The Nature of Ion Conduction in Methylammonium Lead Iodide: A Multimethod Approach. Angewandte Chemie - International Edition, 2017, 56, 7755-7759.	7.2	213
260	Diffusion engineering of ions and charge carriers for stable efficient perovskite solar cells. Nature Communications, 2017, 8, 15330.	5.8	356
261	Perovskite Films: Toward All Roomâ€Temperature, Solutionâ€Processed, Highâ€Performance Planar Perovskite Solar Cells: A New Scheme of Pyridineâ€Promoted Perovskite Formation (Adv. Mater. 13/2017). Advanced Materials, 2017, 29, .	11.1	4
262	A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. Energy and Environmental Science, 2017, 10, 912-918.	15.6	90
263	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
264	Pyridylâ€•and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dyeâ€Sensitized Solar Cells. ChemPlusChem, 2017, 82, 1057-1061.	1.3	14
265	Chemical Distribution of Multiple Cation (Rb⁺, Cs⁺, MA⁺, and) Tj ETQq1 1 0.784314 rgBT /Overl 29, 3589-3596.	3.2	175
266	The Rise of Highly Efficient and Stable Perovskite Solar Cells. Accounts of Chemical Research, 2017, 50, 487-491.	7.6	282
267	Room temperature formation of organicâ€"inorganic lead halide perovskites: design of nanostructured and highly reactive intermediates. Journal of Materials Chemistry A, 2017, 5, 3599-3608.	5.2	48
268	Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 1624-1630.	3.6	46
269	Ultrathin Buffer Layers of SnO₂ by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. Journal of Physical Chemistry C, 2017, 121, 342-350.	1.5	118
270	Approaching truly sustainable solar cells by the use of water and cellulose derivatives. Green Chemistry, 2017, 19, 1043-1051.	4.6	98

#	Article	IF	Citations
271	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
272	Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20%. Science, 2017, 358, 768-771.	6.0	1,285
273	Unraveling the Impact of Rubidium Incorporation on the Transport-Recombination Mechanisms in Highly Efficient Perovskite Solar Cells by Small-Perturbation Techniques. Journal of Physical Chemistry C, 2017, 121, 24903-24908.	1.5	42
274	Computational Characterization of the Dependence of Halide Perovskite Effective Masses on Chemical Composition and Structure. Journal of Physical Chemistry C, 2017, 121, 23886-23895.	1.5	38
275	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. Nano Energy, 2017, 41, 469-475.	8.2	232
276	The Role of Rubidium in Multipleâ€Cationâ€Based Highâ€Efficiency Perovskite Solar Cells. Advanced Materials, 2017, 29, 1701077.	11.1	120
277	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
278	Stabilizing organic photocathodes by low-temperature atomic layer deposition of TiO₂. Sustainable Energy and Fuels, 2017, 1, 1915-1920.	2.5	43
279	Crystal Structure of DMF-Intermediate Phases Uncovers the Link Between CH₃NH₃PbI₃ Morphology and Precursor Stoichiometry. Journal of Physical Chemistry C, 2017, 121, 20739-20743.	1.5	126
280	A solvent- and vacuum-free route to large-area perovskite films for efficient solar modules. Nature, 2017, 550, 92-95.	13.7	618
281	Investigation on the Interface Modification of TiO₂ Surfaces by Functional Coâ€Adsorbents for Highâ€Efficiency Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2017, 18, 2724-2731.	1.0	26
282	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. Journal of the American Chemical Society, 2017, 139, 11537-11543.	6.6	125
283	Monovalent Cation Doping of CH₃NH₃PbI₃ for Efficient Perovskite Solar Cells. Journal of Visualized Experiments, 2017, , .	0.2	20
284	Reduction in the Interfacial Trap Density of Mechanochemically Synthesized MAPbI₃. ACS Applied Materials & Interfaces, 2017, 9, 28418-28425.	4.0	73
285	Globularityâ€Selected Large Molecules for a New Generation of Multication Perovskites. Advanced Materials, 2017, 29, 1702005.	11.1	81
286	Donorâ€“Acceptor-Type <i>S</i>,<i>N</i>-Heteroacene-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 44423-44428.	4.0	31
287	Promises and challenges of perovskite solar cells. Science, 2017, 358, 739-744.	6.0	1,510
288	All Solution-Processed, Hybrid Organicâ€“Inorganic Photocathode for Hydrogen Evolution. ACS Omega, 2017, 2, 3424-3431.	1.6	29

#	ARTICLE	IF	CITATIONS
289	Intrinsic and interfacial kinetics of perovskite solar cells under photo and bias-induced degradation and recovery. Journal of Materials Chemistry C, 2017, 5, 7799-7805.	2.7	34
290	Solar conversion of CO2 to CO using Earth-abundant electrocatalysts prepared by atomic layer modification of CuO. Nature Energy, 2017, 2, .	19.8	436
291	An Unsymmetrical, Pushâ€“Pull Porphyrazine for Dyeâ€Sensitized Solar Cells. ChemPhotoChem, 2017, 1, 164-166.	1.5	17
292	Air Processed Inkjet Infiltrated Carbon Based Printed Perovskite Solar Cells with High Stability and Reproducibility. Advanced Materials Technologies, 2017, 2, 1600183.	3.0	137
293	Influence of Ionic Liquid Electrolytes on the Photovoltaic Performance of Dyeâ€Sensitized Solar Cells. Energy Technology, 2017, 5, 321-326.	1.8	24
294	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. Dyes and Pigments, 2017, 136, 273-277.	2.0	83
295	Photoanode/Electrolyte Interface Stability in Aqueous Dyeâ€Sensitized Solar Cells. Energy Technology, 2017, 5, 300-311.	1.8	68
296	Role of the Bulky Aryloxy Group at the Nonâ€Peripheral Position of Phthalocyanines for Dye Sensitized Solar Cells. ChemPlusChem, 2017, 82, 132-135.	1.3	11
297	Effect of Cs-Incorporated NiO_{<i>x</i>} on the Performance of Perovskite Solar Cells. ACS Omega, 2017, 2, 9074-9079.	1.6	43
298	Interfacial Kinetics of Efficient Perovskite Solar Cells. Crystals, 2017, 7, 252.	1.0	24
299	A New Design Paradigm for Smart Windows: Photocurable Polymers for Quasiâ€Solid Photoelectrochromic Devices with Excellent Longâ€Term Stability under Real Outdoor Operating Conditions. Advanced Functional Materials, 2016, 26, 1127-1137.	7.8	109
300	Highâ€Efficiency Perovskite Solar Cells Employing a <i>S</i>,<i>N</i>â€Heteropentaceneâ€based Dâ€“A Holeâ€Transport Material. ChemSusChem, 2016, 9, 433-438.	3.6	61
301	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. Advanced Materials, 2016, 28, 2439-2445.	11.1	129
302	Unbroken Perovskite: Interplay of Morphology, Electroâ€optical Properties, and Ionic Movement. Advanced Materials, 2016, 28, 5031-5037.	11.1	242
303	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH₃NH₃PbI₃ Perovskite. Advanced Energy Materials, 2016, 6, 1502472.	10.2	196
304	Bipolar Membraneâ€Assisted Solar Water Splitting in Optimal pH. Advanced Energy Materials, 2016, 6, 1600100.	10.2	156
305	Benzotrithiopheneâ€Based Holeâ€Transporting Materials for 18.2â€‰% Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 6270-6274.	7.2	188
306	High Absorption Coefficient Cyclopentadithiophene Donor-Free Dyes for Liquid and Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 15027-15034.	1.5	28

#	Article	IF	Citations
307	Optical analysis of CH₃NH₃Sn_xPb_{1âˆ’x}I₃ absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. Journal of Materials Chemistry A, 2016, 4, 11214-11221.	5.2	101
308	Efficient Blueâ€Colored Solidâ€State Dyeâ€Sensitized Solar Cells: Enhanced Charge Collection by Using an in Situ Photoelectrochemically Generated Conducting Polymer Hole Conductor. ChemPhysChem, 2016, 17, 1441-1445.	1.0	21
309	A New 1,3,4â€Oxadiazoleâ€Based Holeâ€Transport Material for Efficient CH₃NH₃PbBr₃ Perovskite Solar Cells. ChemSusChem, 2016, 9, 657-661.	3.6	31
310	Quasiâ€Solidâ€State Dyeâ€Sensitized Solar Cells Based on Ru(II) Polypyridine Sensitizers. Energy Technology, 2016, 4, 380-384.	1.8	4
311	Enhanced Charge Collection with Passivation Layers in Perovskite Solar Cells. Advanced Materials, 2016, 28, 3966-3972.	11.1	152
312	In-situ observation of moisture-induced degradation of perovskite solar cells using laser-beam induced current. , 2016, , .		12
313	High Solar Flux Concentration Water Splitting with Hematite (Î±â€Fe₂O₃) Photoanodes. Advanced Energy Materials, 2016, 6, 1500817.	10.2	72
314	Facile synthesized organic hole transporting material for perovskite solar cell with efficiency of 19.8%. Nano Energy, 2016, 23, 138-144.	8.2	253
315	Not All That Glitters Is Gold: Metal-Migration-Induced Degradation in Perovskite Solar Cells. ACS Nano, 2016, 10, 6306-6314.	7.3	966
316	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. Nano Energy, 2016, 24, 10-16.	8.2	84
317	Unveiling iodine-based electrolytes chemistry in aqueous dye-sensitized solar cells. Chemical Science, 2016, 7, 4880-4890.	3.7	90
318	Copper Phenanthroline as a Fast and High-Performance Redox Mediator for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 9595-9603.	1.5	140
319	Branched methoxydiphenylamine-substituted fluorene derivatives as hole transporting materials for high-performance perovskite solar cells. Energy and Environmental Science, 2016, 9, 1681-1686.	15.6	138
320	High Open-Circuit Voltage: Fabrication of Formamidinium Lead Bromide Perovskite Solar Cells Using Fluoreneâ€“Dithiophene Derivatives as Hole-Transporting Materials. ACS Energy Letters, 2016, 1, 107-112.	8.8	105
321	Holeâ€Transport Materials for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 14522-14545.	7.2	786
322	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 16330-16334.	5.2	87
323	Improving efficiency and stability of perovskite solar cells with photocurable fluoropolymers. Science, 2016, 354, 203-206.	6.0	748
324	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. Science, 2016, 354, 206-209.	6.0	3,137

#	Article	IF	Citations
325	Influence of Ancillary Ligands in Dye-Sensitized Solar Cells. Chemical Reviews, 2016, 116, 9485-9564.	23.0	225
326	Proof-of-concept for facile perovskite solar cell recycling. Energy and Environmental Science, 2016, 9, 3172-3179.	15.6	105
327	Enhancing Efficiency of Perovskite Solar Cells via Nâ€doped Graphene: Crystal Modification and Surface Passivation. Advanced Materials, 2016, 28, 8681-8686.	11.1	281
328	Polymer-based photocathodes with a solution-processable cuprous iodide anode layer and a polyethyleneimine protective coating. Energy and Environmental Science, 2016, 9, 3710-3723.	15.6	86
329	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. Advanced Energy Materials, 2016, 6, 1600767.	10.2	224
330	Impact of a Mesoporous Titaniaâ€“Perovskite Interface on the Performance of Hybrid Organicâ€“Inorganic Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 3264-3269.	2.1	85
331	Additiveâ€Free Transparent Triarylamineâ€Based Polymeric Holeâ€Transport Materials for Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 2567-2571.	3.6	65
332	Dopantâ€Free Donor (D)â€“Ï€â€“Dâ€“Ï€â€“D Conjugated Holeâ€Transport Materials for Efficient and Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 2578-2585.	3.6	83
333	Valence and conduction band tuning in halide perovskites for solar cell applications. Journal of Materials Chemistry A, 2016, 4, 15997-16002.	5.2	132
334	Introducing rigid Ï€-conjugated peripheral substituents in phthalocyanines for DSSCs. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1361-1367.	0.4	3
335	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. Energy and Environmental Science, 2016, 9, 3128-3134.	15.6	720
336	Highly Efficient and Stable Perovskite Solar Cells based on a Lowâ€Cost Carbon Cloth. Advanced Energy Materials, 2016, 6, 1601116.	10.2	107
337	Band Alignment Engineering at Cu₂O/ZnO Heterointerfaces. ACS Applied Materials & Interfaces, 2016, 8, 21824-21831.	4.0	101
338	Solutionâ€Processed Tinâ€Based Perovskite for Nearâ€Infrared Lasing. Advanced Materials, 2016, 28, 8191-8196.	11.1	222
339	Inverted Currentâ€“Voltage Hysteresis in Mixed Perovskite Solar Cells: Polarization, Energy Barriers, and Defect Recombination. Advanced Energy Materials, 2016, 6, 1600396.	10.2	213
340	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. Inorganic Chemistry, 2016, 55, 7388-7395.	1.9	21
341	A molecularly engineered hole-transporting material for efficient perovskite solar cells. Nature Energy, 2016, 1, .	19.8	816
342	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater thanÂ21%. Nature Energy, 2016, 1, .	19.8	1,719

#	Article	IF	Citations
343	Towards stable and commercially available perovskite solar cells. Nature Energy, 2016, 1, .	19.8	941
344	Ultrafast charge separation dynamics in opaque, operational dye-sensitized solar cells revealed by femtosecond diffuse reflectance spectroscopy. Scientific Reports, 2016, 6, 24465.	1.6	22
345	Intrinsic and Extrinsic Stability of Formamidinium Lead Bromide Perovskite Solar Cells Yielding High Photovoltage. Nano Letters, 2016, 16, 7155-7162.	4.5	104
346	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). Advanced Energy Materials, 2016, 6, .	10.2	2
347	Mesoporous SnO2 electron selective contact enables UV-stable perovskite solar cells. Nano Energy, 2016, 30, 517-522.	8.2	204
348	Novel Blue Organic Dye for Dye-Sensitized Solar Cells Achieving High Efficiency in Cobalt-Based Electrolytes and by Co-Sensitization. ACS Applied Materials & Interfaces, 2016, 8, 32797-32804.	4.0	67
349	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. Journal of the American Chemical Society, 2016, 138, 15087-15096.	6.6	239
350	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. Science Advances, 2016, 2, e1601156.	4.7	307
351	Photovoltaic and Amplified Spontaneous Emission Studies of Highâ€Quality Formamidinium Lead Bromide Perovskite Films. Advanced Functional Materials, 2016, 26, 2846-2854.	7.8	66
352	Effect of Peripheral Substitution on the Performance of Subphthalocyanines in DSSCs. Chemistry - an Asian Journal, 2016, 11, 1223-1231.	1.7	19
353	Perovskite Photovoltaics with Outstanding Performance Produced by Chemical Conversion of Bilayer Mesostructured Lead Halide/TiO₂ Films. Advanced Materials, 2016, 28, 2964-2970.	11.1	144
354	Growth Engineering of CH₃NH₃PbI₃ Structures for Highâ€Efficiency Solar Cells. Advanced Energy Materials, 2016, 6, 1501358.	10.2	36
355	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Ndâ€Doping of Mesostructured TiO₂. Advanced Energy Materials, 2016, 6, 1501868.	10.2	157
356	Benzotrithiopheneâ€Based Holeâ€Transporting Materials for 18.2â€‰% Perovskite Solar Cells. Angewandte Chemie, 2016, 128, 6378-6382.	1.6	54
357	A vacuum flashâ€"assisted solution process for high-efficiency large-area perovskite solar cells. Science, 2016, 353, 58-62.	6.0	1,636
358	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. Inorganic Chemistry, 2016, 55, 6653-6659.	1.9	80
359	Asymmetric Cathodoluminescence Emission in CH₃NH₃PbI_{3â€"<i>x</i>}Br_{<i>x</i>} Perovskite Single Crystals. ACS Photonics, 2016, 3, 947-952.	3.2	30
360	Dye-sensitized solar cells with inkjet-printed dyes. Energy and Environmental Science, 2016, 9, 2453-2462.	15.6	65

#	Article	IF	Citations
361	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH₃NH₃PbI₃. Advanced Materials, 2016, 28, 2910-2915.	11.1	258
362	A Novel Dopantâ€Free Triphenylamine Based Molecular â€œButterflyâ€• Holeâ€Transport Material for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600401.	10.2	161
363	Enhanced electronic properties in mesoporous TiO2 via lithium doping for high-efficiency perovskite solar cells. Nature Communications, 2016, 7, 10379.	5.8	744
364	Molecular Origin and Electrochemical Influence of Capacitive Surface States on Iron Oxide Photoanodes. Journal of Physical Chemistry C, 2016, 120, 3250-3258.	1.5	29
365	Synthesis, characterization and ab initio investigation of a panchromatic ullazineâ€“porphyrin photosensitizer for dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 2332-2339.	5.2	47
366	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
367	Carbon nanotube-based hybrid hole-transporting material and selective contact for high efficiency perovskite solar cells. Energy and Environmental Science, 2016, 9, 461-466.	15.6	185
368	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
369	Cu₂O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. Nano Letters, 2016, 16, 1848-1857.	4.5	542
370	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
371	Ionic polarization-induced currentâ€“voltage hysteresis in CH3NH3PbX3 perovskite solar cells. Nature Communications, 2016, 7, 10334.	5.8	602
372	Light management: porous 1-dimensional nanocolumnar structures as effective photonic crystals for perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 4962-4970.	5.2	19
373	Heteroleptic Ru(ii)-bipyridine complexes based on hexylthioether-, hexyloxy- and hexyl-substituted thienylenevinylenes and their application in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2016, 18, 11901-11908.	1.3	2
374	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
375	Hybrid organicâ€“inorganic H₂-evolving photocathodes: understanding the route towards high performance organic photoelectrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 2178-2187.	5.2	70
376	Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170.	4.7	1,669
377	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
378	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536

#	Article	IF	Citations
379	The electronic, chemical and electrocatalytic processes and intermediates on iron oxide surfaces during photoelectrochemical water splitting. Catalysis Today, 2016, 260, 72-81.	2.2	25
380	Nanostructures: A Smooth CH₃NH₃PbI₃ Film via a New Approach for Forming the PbI₂ Nanostructure Together with Strategically High CH₃NH₃I Concentration for High Efficient Planarâ€Heterojunction Solar Cells (Adv. Energy Mater. 23/2015). Advanced Energy Materials, 2015, 5, .	10.2	10
381	A Smooth CH₃NH₃PbI₃ Film via a New Approach for Forming the PbI₂ Nanostructure Together with Strategically High CH₃NH₃I Concentration for High Efficient Planarâ€Heterojunction Solar Cells. Advanced Energy Materials, 2015, 5, 1501354.	10.2	228
382	Working Principles of Perovskite Photodetectors: Analyzing the Interplay Between Photoconductivity and Voltageâ€Driven Energyâ€Level Alignment. Advanced Functional Materials, 2015, 25, 6936-6947.	7.8	129
383	Targeting Ideal Dualâ€Absorber Tandem Water Splitting Using Perovskite Photovoltaics and CuIn<i>_x</i>Ga_{1â€‹<i>x</i>}Se₂ Photocathodes. Advanced Energy Materials, 2015, 5, 1501520.	10.2	109
384	A Methoxydiphenylamineâ€Substituted Carbazole Twin Derivative: An Efficient Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 11409-11413.	7.2	239
385	Understanding the Impact of Bromide on the Photovoltaic Performance of CH₃NH₃PbI₃ Solar Cells. Advanced Materials, 2015, 27, 7221-7228.	11.1	73
386	Synthesis of Amphiphilic Ru^{II} Heteroleptic Complexes Based on Benzo[1,2â€‹<i>b</i>:4,5â€‹<i>b</i>â€²]dithiophene: Relevance of the Halfâ€Sandwich Complex Intermediate and Solvent Compatibility. Chemistry - A European Journal, 2015, 21, 16252-16265.	1.7	10
387	Nanocomposite Semiâ€Solid Redox Ionic Liquid Electrolytes with Enhanced Chargeâ€Transport Capabilities for Dyeâ€Sensitized Solar Cells. ChemSusChem, 2015, 8, 2560-2568.	3.6	18
388	Transparent Cuprous Oxide Photocathode Enabling a Stacked Tandem Cell for Unbiased Water Splitting. Advanced Energy Materials, 2015, 5, 1501537.	10.2	149
389	A hybrid electron donor comprising cyclopentadithiophene and dithiafulvenyl for dye-sensitized solar cells. Beilstein Journal of Organic Chemistry, 2015, 11, 1052-1059.	1.3	12
390	Rational design of triazatruxene-based hole conductors for perovskite solar cells. RSC Advances, 2015, 5, 53426-53432.	1.7	64
391	Efficient photosynthesis of carbon monoxide from CO2 using perovskite photovoltaics. Nature Communications, 2015, 6, 7326.	5.8	295
392	Anthanthrene dye-sensitized solar cells: influence of the number of anchoring groups and substitution motif. RSC Advances, 2015, 5, 98643-98652.	1.7	14
393	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
394	Transforming Hybrid Organic Inorganic Perovskites by Rapid Halide Exchange. Chemistry of Materials, 2015, 27, 2181-2188.	3.2	179
395	A Power Pack Based on Organometallic Perovskite Solar Cell and Supercapacitor. ACS Nano, 2015, 9, 1782-1787.	7.3	201
396	High efficiency stable inverted perovskite solar cells without current hysteresis. Energy and Environmental Science, 2015, 8, 2725-2733.	15.6	533

#	Article	IF	Citations
397	High-Efficiency Polycrystalline Thin Film Tandem Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2676-2681.	2.1	166
398	An Optically Transparent Iron Nickel Oxide Catalyst for Solar Water Splitting. Journal of the American Chemical Society, 2015, 137, 9927-9936.	6.6	247
399	Aâ€"Dâ€"A-type S,N-heteropentacene-based hole transport materials for dopant-free perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 17738-17746.	5.2	105
400	Silolothiophene-linked triphenylamines as stable hole transporting materials for high efficiency perovskite solar cells. Energy and Environmental Science, 2015, 8, 2946-2953.	15.6	163
401	Porphyrin Sensitizers Bearing a Pyridine-Type Anchoring Group for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 14975-14982.	4.0	60
402	Facile route to freestanding CH3NH3PbI3 crystals using inverse solubility. Scientific Reports, 2015, 5, 11654.	1.6	112
403	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
404	A simple spiro-type hole transporting material for efficient perovskite solar cells. Energy and Environmental Science, 2015, 8, 1986-1991.	15.6	206
405	A dopant free linear acene derivative as a hole transport material for perovskite pigmented solar cells. Energy and Environmental Science, 2015, 8, 1816-1823.	15.6	202
406	Nanocolumnar 1-dimensional TiO₂ photoanodes deposited by PVD-OAD for perovskite solar cell fabrication. Journal of Materials Chemistry A, 2015, 3, 13291-13298.	5.2	24
407	Improved environmental stability of organic lead trihalide perovskite-based photoactive-layers in the presence of mesoporous TiO₂. Journal of Materials Chemistry A, 2015, 3, 7219-7223.	5.2	112
408	Rate Law Analysis of Water Oxidation on a Hematite Surface. Journal of the American Chemical Society, 2015, 137, 6629-6637.	6.6	273
409	Light Harvesting and Charge Recombination in CH₃NH₃PbI₃ Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. ACS Nano, 2015, 9, 4200-4209.	7.3	205
410	Low-Temperature Atomic Layer Deposition of Crystalline and Photoactive Ultrathin Hematite Films for Solar Water Splitting. ACS Nano, 2015, 9, 11775-11783.	7.3	70
411	Hyperbranched self-assembled photoanode for high efficiency dye-sensitized solar cells. RSC Advances, 2015, 5, 93180-93186.	1.7	6
412	Analysing the effect of crystal size and structure in highly efficient CH₃NH₃PbI₃ perovskite solar cells by spatially resolved photo- and electroluminescence imaging. Nanoscale, 2015, 7, 19653-19662.	2.8	84
413	Efficient and stable large-area perovskite solar cells with inorganic charge extraction layers. Science, 2015, 350, 944-948.	6.0	2,007
414	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

#	Article	IF	Citations
415	Highly efficient planar perovskite solar cells through band alignment engineering. Energy and Environmental Science, 2015, 8, 2928-2934.	15.6	1,097
416	Unravel the Impact of Anchoring Groups on the Photovoltaic Performances of Diketopyrrolopyrrole Sensitizers for Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2015, 3, 2389-2396.	3.2	65
417	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
418	Mechanosynthesis of the hybrid perovskite CH₃NH₃PbI₃: characterization and the corresponding solar cell efficiency. Journal of Materials Chemistry A, 2015, 3, 20772-20777.	5.2	163
419	A dopant-free spirobi[cyclopenta[2,1-b:3,4-bâ€²]dithiophene] based hole-transport material for efficient perovskite solar cells. Materials Horizons, 2015, 2, 613-618.	6.4	131
420	High performance dye-sensitized solar cells with inkjet printed ionic liquid electrolyte. Nano Energy, 2015, 17, 206-215.	8.2	62
421	Direct light-induced polymerization of cobalt-based redox shuttles: an ultrafast way towards stable dye-sensitized solar cells. Chemical Communications, 2015, 51, 16308-16311.	2.2	73
422	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 16172-16178.	6.6	321
423	Spectral splitting photovoltaics using perovskite and wideband dye-sensitized solar cells. Nature Communications, 2015, 6, 8834.	5.8	122
424	Efficient and selective carbon dioxide reduction on low cost protected Cu₂O photocathodes using a molecular catalyst. Energy and Environmental Science, 2015, 8, 855-861.	15.6	142
425	Semi-transparent perovskite solar cells for tandems with silicon and CIGS. Energy and Environmental Science, 2015, 8, 956-963.	15.6	630
426	Enhancing the Stability of Porphyrin Dyeâ€Sensitized Solar Cells by Manipulation of Electrolyte Additives. ChemSusChem, 2015, 8, 255-259.	3.6	18
427	Investigation of Interfacial Charge Separation at PbS QDs/(001) TiO₂Nanosheets Heterojunction Solar Cell. Particle and Particle Systems Characterization, 2015, 32, 483-488.	1.2	17
428	A Novel Oligomer as a Hole Transporting Material for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1400980.	10.2	80
429	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
430	Mesoscopic photosystems for solar light harvesting and conversion: facile and reversible transformation of metal-halide perovskites. Faraday Discussions, 2014, 176, 251-269.	1.6	35
431	Mesoporous TiO₂ Beads Offer Improved Mass Transport for Cobaltâ€Based Redox Couples Leading to High Efficiency Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400168.	10.2	65
432	A durable SWCNT/PET polymer foil based metal free counter electrode for flexible dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 19609-19615.	5.2	53

#	Article	IF	Citations
433	New pyrido[3,4-b]pyrazine-based sensitizers for efficient and stable dye-sensitized solar cells. Chemical Science, 2014, 5, 206-214.	3.7	102
434	Ruthenium Oxide Hydrogen Evolution Catalysis on Composite Cuprous Oxide Waterâ€Splitting Photocathodes. Advanced Functional Materials, 2014, 24, 303-311.	7.8	253
435	Low-temperature solution-processed wavelength-tunable perovskites for lasing. Nature Materials, 2014, 13, 476-480.	13.3	2,725
436	Perovskite as Light Harvester: A Game Changer in Photovoltaics. Angewandte Chemie - International Edition, 2014, 53, 2812-2824.	7.2	862
437	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 6305-6309.	5.2	167
438	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
439	Hydrogen evolution from a copper(I) oxide photocathode coated with an amorphous molybdenum sulphide catalyst. Nature Communications, 2014, 5, 3059.	5.8	418
440	A Simple 3,4â€Ethylenedioxythiophene Based Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 4085-4088.	7.2	379
441	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400217.	10.2	37
442	Subâ€Nanometer Conformal TiO₂ Blocking Layer for High Efficiency Solidâ€State Perovskite Absorber Solar Cells. Advanced Materials, 2014, 26, 4309-4312.	11.1	148
443	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
444	Toward Higher Photovoltage: Effect of Blocking Layer on Cobalt Bipyridine Pyrazole Complexes as Redox Shuttle for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16799-16805.	1.5	35
445	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
446	Inorganic hole conductor-based lead halide perovskite solar cells with 12.4% conversion efficiency. Nature Communications, 2014, 5, 3834.	5.8	769
447	Perovskite solar cells employing organic charge-transport layers. Nature Photonics, 2014, 8, 128-132.	15.6	1,320
448	Controlled synthesis of TiO₂ nanoparticles and nanospheres using a microwave assisted approach for their application in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 1662-1667.	5.2	80
449	Unravelling the mechanism of photoinduced charge transfer processes in lead iodide perovskite solar cells. Nature Photonics, 2014, 8, 250-255.	15.6	648
450	Impedance Spectroscopic Analysis of Lead Iodide Perovskite-Sensitized Solid-State Solar Cells. ACS Nano, 2014, 8, 362-373.	7.3	663

#	Article	IF	Citations
451	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
452	Electrochemical Characterization of TiO₂ Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	1.5	201
453	The role of the hole-transport layer in perovskite solar cells - reducing recombination and increasing absorption. , 2014, , .		28
454	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. Journal of Physical Chemistry C, 2014, 118, 29599-29607.	1.5	56
455	Investigation Regarding the Role of Chloride in Organicâ€“Inorganic Halide Perovskites Obtained from Chloride Containing Precursors. Nano Letters, 2014, 14, 6991-6996.	4.5	185
456	Strong Photocurrent Amplification in Perovskite Solar Cells with a Porous TiO₂ Blocking Layer under Reverse Bias. Journal of Physical Chemistry Letters, 2014, 5, 3931-3936.	2.1	104
457	Acetylene-bridged dyes with high open circuit potential for dye-sensitized solar cells. RSC Advances, 2014, 4, 35251.	1.7	23
458	Melt-infiltration of spiro-OMeTAD and thermal instability of solid-state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 4864.	1.3	77
459	Thermal Behavior of Methylammonium Lead-Trihalide Perovskite Photovoltaic Light Harvesters. Chemistry of Materials, 2014, 26, 6160-6164.	3.2	502
460	ORGANOMETAL HALIDE PEROVSKITE PHOTOVOLTAICS: A DIAMOND IN THE ROUGH. Nano, 2014, 09, 1440002.	0.5	24
461	A Bismuth Vanadateâ€“Cuprous Oxide Tandem Cell for Overall Solar Water Splitting. Journal of Physical Chemistry C, 2014, 118, 16959-16966.	1.5	226
462	Kinetics of the Regeneration by Iodide of Dye Sensitizers Adsorbed on Mesoporous Titania. Journal of Physical Chemistry C, 2014, 118, 17108-17115.	1.5	26
463	Hematite photoelectrodes for water splitting: evaluation of the role of film thickness by impedance spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 16515.	1.3	162
464	The light and shade of perovskite solar cells. Nature Materials, 2014, 13, 838-842.	13.3	1,877
465	Photoanode Based on (001)-Oriented Anatase Nanoplatelets for Organicâ€“Inorganic Lead Iodide Perovskite Solar Cell. Chemistry of Materials, 2014, 26, 4675-4678.	3.2	39
466	Low band gap S,N-heteroacene-based oligothiophenes as hole-transporting and light absorbing materials for efficient perovskite-based solar cells. Energy and Environmental Science, 2014, 7, 2981.	15.6	127
467	Real-space observation of unbalanced charge distribution inside a perovskite-sensitized solar cell. Nature Communications, 2014, 5, 5001.	5.8	294
468	Growth of CH3NH3PbI3 cuboids with controlled size for high-efficiency perovskite solar cells. Nature Nanotechnology, 2014, 9, 927-932.	15.6	1,600

#	Article	IF	Citations
469	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. Advanced Functional Materials, 2014, 24, 7681-7688.	7.8	289
470	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2014, 24, 1615-1623.	7.8	99
471	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. Science, 2014, 345, 1593-1596.	6.0	2,260
472	Panchromatic symmetrical squaraines: a step forward in the molecular engineering of low cost blue-greenish sensitizers for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 24173-24177.	1.3	41
473	A hole-conductorâ€"free, fully printable mesoscopic perovskite solar cell with high stability. Science, 2014, 345, 295-298.	6.0	2,685
474	A quasi coreâ€"shell nitrogen-doped graphene/cobalt sulfide conductive catalyst for highly efficient dye-sensitized solar cells. Energy and Environmental Science, 2014, 7, 2637-2641.	15.6	185
475	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. Journal of Physical Chemistry Letters, 2014, 5, 501-505.	2.1	15
476	Electronic tuning effects via Ï€-linkers in tetrathiafulvalene-based dyes. New Journal of Chemistry, 2014, 38, 3269.	1.4	23
477	Thiadiazolo[3,4-c]pyridine Acceptor Based Blue Sensitizers for High Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 17090-17099.	1.5	24
478	On the Solar to Hydrogen Conversion Efficiency of Photoelectrodes for Water Splitting. Journal of Physical Chemistry Letters, 2014, 5, 3330-3334.	2.1	128
479	Holeâ€Transporting Small Molecules Based on Thiophene Cores for High Efficiency Perovskite Solar Cells. ChemSusChem, 2014, 7, 3420-3425.	3.6	139
480	Mixedâ€Organicâ€Cation Perovskite Photovoltaics for Enhanced Solarâ€Light Harvesting. Angewandte Chemie - International Edition, 2014, 53, 3151-3157.	7.2	1,117
481	Effect of Extended Ï€-Conjugation of the Donor Structure of Organic Dâ€"Aâ€"Ï€â€"A Dyes on the Photovoltaic Performance of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16486-16493.	1.5	63
482	Molecular Engineering of Phthalocyanine Sensitizers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 17166-17170.	1.5	70
483	Back Electronâ€"Hole Recombination in Hematite Photoanodes for Water Splitting. Journal of the American Chemical Society, 2014, 136, 2564-2574.	6.6	393
484	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
485	Co(III) Complexes as p-Dopants in Solid-State Dye-Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 2986-2990.	3.2	169
486	Sequential deposition as a route to high-performance perovskite-sensitized solar cells. Nature, 2013, 499, 316-319.	13.7	8,542

#	Article	IF	Citations
487	Blue-Coloured Highly Efficient Dye-Sensitized Solar Cells by Implementing the Diketopyrrolopyrrole Chromophore. Scientific Reports, 2013, 3, 2446.	1.6	143
488	Benzo[1,2-b:4,5-bâ€²]difuran-based sensitizers for dye-sensitized solar cells. RSC Advances, 2013, 3, 19798.	1.7	14
489	Seeâ€Through Dyeâ€Sensitized Solar Cells: Photonic Reflectors for Tandem and Building Integrated Photovoltaics. Advanced Materials, 2013, 25, 5734-5741.	11.1	51
490	Between photocatalysis and photosynthesis: Synchrotron spectroscopy methods on molecules and materials for solar hydrogen generation. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 93-105.	0.8	18
491	High Open-Circuit Voltages: Evidence for a Sensitizer-Induced TiO2 Conduction Band Shift in Ru(II)-Dye Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 4497-4502.	3.2	37
492	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
493	Diketopyrrolopyrrole-based sensitizers for dye-sensitized solar cell applications: anchor engineering. Journal of Materials Chemistry A, 2013, 1, 13978.	5.2	45
494	Diffusion and adsorption of dye molecules in mesoporous TiO2 photoelectrodes studied by indirect nanoplasmonic sensing. Energy and Environmental Science, 2013, 6, 3627.	15.6	16
495	Decoupling light absorption and charge transport properties in near IR-sensitized Fe2O3 regenerative cells. Energy and Environmental Science, 2013, 6, 3280.	15.6	14
496	A deep-blue emitting charged bis-cyclometallated iridium(<scp>iii</scp>) complex for light-emitting electrochemical cells. Journal of Materials Chemistry C, 2013, 1, 58-68.	2.7	81
497	Effect of Interfacial Engineering in Solidâ€State Nanostructured Sb₂S₃ Heterojunction Solar Cells (Adv. Energy Mater. 1/2013). Advanced Energy Materials, 2013, 3, 28-28.	10.2	4
498	Harnessing the open-circuit voltage via a new series of Ru(ii) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. Energy and Environmental Science, 2013, 6, 859.	15.6	64
499	Solidâ€State Dyeâ€Sensitized Solar Cells Using a Novel Class of Ullazine Dyes as Sensitizers. Advanced Energy Materials, 2013, 3, 496-504.	10.2	35
500	Formation of an electron hole doped film in the Î±-Fe₂O₃photoanode upon electrochemical oxidation. Physical Chemistry Chemical Physics, 2013, 15, 1443-1451.	1.3	40
501	Thiocyanateâ€Free Ru(II) Sensitizers with a 4,4â€²â€Dicarboxyvinylâ€2,2â€²â€bipyridine Anchor for Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 2285-2294.	7.8	27
502	Inherent electronic trap states in TiO2 nanocrystals: effect of saturation and sintering. Energy and Environmental Science, 2013, 6, 1221.	15.6	76
503	First Principles Design of Dye Molecules with Ullazine Donor for Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 3772-3778.	1.5	169
504	Facile synthesis of a bulky BPTPA donor group suitable for cobalt electrolyte based dye sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 5535.	5.2	58

#	Article	IF	Citations
505	Engineering of thiocyanate-free Ru(ii) sensitizers for high efficiency dye-sensitized solar cells. Chemical Science, 2013, 4, 2423.	3.7	67
506	High-performance pure blue phosphorescent OLED using a novel bis-heteroleptic iridium(iii) complex with fluorinated bipyridyl ligands. Journal of Materials Chemistry C, 2013, 1, 1070.	2.7	129
507	Evaluating the Critical Thickness of TiO₂ Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 2775-2781.	7.8	56
508	Efficient inorganicâ€“organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors. Nature Photonics, 2013, 7, 486-491.	15.6	2,423
509	First-Principles Modeling of Mixed Halide Organometal Perovskites for Photovoltaic Applications. Journal of Physical Chemistry C, 2013, 117, 13902-13913.	1.5	861
510	Regeneration and recombination kinetics in cobalt polypyridine based dye-sensitized solar cells, explained using Marcus theory. Physical Chemistry Chemical Physics, 2013, 15, 7087.	1.3	153
511	Core/Shell PbSe/PbS QDs TiO₂ Heterojunction Solar Cell. Advanced Functional Materials, 2013, 23, 2736-2741.	7.8	99
512	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
513	Tridentate cobalt complexes as alternative redox couples for high-efficiency dye-sensitized solar cells. Chemical Science, 2013, 4, 454-459.	3.7	56
514	Structureâ€“Property Relations in Allâ€Organic Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 424-429.	7.8	68
515	Organic Sensitizers with Bridged Triphenylamine Donor Units for Efficient Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2013, 3, 200-205.	10.2	49
516	Effect of Interfacial Engineering in Solidâ€State Nanostructured Sb₂S₃ Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 29-33.	10.2	85
517	Pulsed-current versus constant-voltage light-emitting electrochemical cells with trifluoromethyl-substituted cationic iridium(iii) complexes. Journal of Materials Chemistry C, 2013, 1, 2241.	2.7	63
518	Structural and photocatalytic properties of perovskite-type (La,Ca)Ti(O,N)3 prepared from A-site deficient precursors. Journal of Materials Chemistry, 2012, 22, 17906.	6.7	42
519	Themed issue: nanomaterials for energy conversion and storage. Journal of Materials Chemistry, 2012, 22, 24190.	6.7	48
520	Cobalt Electrolyte/Dye Interactions in Dye-Sensitized Solar Cells: A Combined Computational and Experimental Study. Journal of the American Chemical Society, 2012, 134, 19438-19453.	6.6	204
521	Highly efficient water splitting by a dual-absorber tandem cell. Nature Photonics, 2012, 6, 824-828.	15.6	437
522	Photoinduced Interfacial Electron Injection Dynamics in Dye-Sensitized Solar Cells under Photovoltaic Operating Conditions. Journal of Physical Chemistry Letters, 2012, 3, 3786-3790.	2.1	52

#	Article	IF	Citations
523	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. Nature Communications, 2012, 3, 631.	5.8	554
524	Symmetric vs. asymmetric squaraines as photosensitisers in mesoscopic injection solar cells: a structureâ€"property relationship study. Chemical Communications, 2012, 48, 2782.	2.2	79
525	Light scattering enhancement from sub-micrometer cavities in the photoanode for dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 16201.	6.7	50
526	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
527	Recent developments in redox electrolytes for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9394.	15.6	265
528	Materials interface engineering for solution-processed photovoltaics. Nature, 2012, 488, 304-312.	13.7	1,000
529	Mesoscopic CH₃NH₃PbI₃/TiO₂ Heterojunction Solar Cells. Journal of the American Chemical Society, 2012, 134, 17396-17399.	6.6	1,801
530	Transparent, Conducting Nb:SnO₂ for Hostâ€"Guest Photoelectrochemistry. Nano Letters, 2012, 12, 5431-5435.	4.5	122
531	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
532	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2012, 116, 16870-16875.	1.5	137
533	Efficient orange light-emitting electrochemical cells. Journal of Materials Chemistry, 2012, 22, 19264.	6.7	62
534	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
535	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
536	Facile fabrication of tin-doped hematite photoelectrodes â€" effect of doping on magnetic properties and performance for light-induced water splitting. Journal of Materials Chemistry, 2012, 22, 23232.	6.7	65
537	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
538	A Ga₂O₃underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. Faraday Discussions, 2012, 155, 223-232.	1.6	95
539	Novel nanostructures for next generation dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 8506.	15.6	162
540	Bis(pyrazol-1-yl)methane as Non-Chromophoric Ancillary Ligand for Charged Bis-Cyclometalated Iridium(III) Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 3209-3215.	1.0	16

#	ARTICLE	IF	CITATIONS
541	Subnanometer Ga₂O₃ Tunnelling Layer by Atomic Layer Deposition to Achieve 1.1 V Open-Circuit Potential in Dye-Sensitized Solar Cells. Nano Letters, 2012, 12, 3941-3947.	4.5	188
542	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
543	Enhancement in the Performance of Ultrathin Hematite Photoanode for Water Splitting by an Oxide Underlayer. Advanced Materials, 2012, 24, 2699-2702.	11.1	271
544	Clickâ€Functionalized Ru(II) Complexes for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 1004-1012.	10.2	22
545	Donorâ€Ï€â€Acceptors Containing the 10â€(1,3â€Dithiolâ€2â€ylidene)anthracene Unit for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2012, 18, 11621-11629.	1.7	40
546	Iron Resonant Photoemission Spectroscopy on Anodized Hematite Points to Electron Hole Doping during Anodization. ChemPhysChem, 2012, 13, 2937-2944.	1.0	19
547	Avoiding Diffusion Limitations in Cobalt(III/II)â€<i>Tris</i>(2,2â€²â€Bipyridine)â€Based Dyeâ€Sensitized Solar Cells by Tuning the Mesoporous TiO₂ Film Properties. ChemPhysChem, 2012, 13, 2976-2981.	1.0	75
548	Electrical Properties of <scp><scp>Nb</scp></scp>â€, <scp><scp>Ga</scp></scp>â€, and <scp><scp>Y</scp></scp>â€Substituted Nanocrystalline Anatase <scp><scp>TiO</scp></scp>₂ Prepared by Hydrothermal Synthesis. Journal of the American Ceramic Society, 2012, 95, 3192-3196.	1.9	16
549	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell â€" Silicon Photovoltaic Hybrid Concentrator System. Journal of Physical Chemistry Letters, 2011, 2, 581-585.	2.1	49
550	Effect of Sensitizer Adsorption Temperature on the Performance of Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 9304-9310.	6.6	143
551	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
552	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. Energy and Environmental Science, 2011, 4, 4921.	15.6	196
553	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. Chemical Science, 2011, 2, 949.	3.7	259
554	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in Î±-Fe₂O₃ upon Electrochemical Oxidation. Journal of Physical Chemistry C, 2011, 115, 5619-5625.	1.5	62
555	Panchromatic engineering for dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 842-857.	15.6	319
556	Butyronitrile-Based Electrolyte for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 13103-13109.	6.6	75
557	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763
558	Cobalt Redox Mediators for Ruthenium-Based Dye-Sensitized Solar Cells: A Combined Impedance Spectroscopy and Near-IR Transmittance Study. Journal of Physical Chemistry C, 2011, 115, 18847-18855.	1.5	136

#	Article	IF	Citations
559	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. Nano Letters, 2011, 11, 5501-5506.	4.5	350
560	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
561	Substitution of Carbazole Modified Fluorenes as Ï€-Extension in Ru(II) Complex-Influence on Performance of Dye-Sensitized Solar Cells. Advances in OptoElectronics, 2011, 2011, 1-10.	0.6	3
562	Highly active oxide photocathode for photoelectrochemical water reduction. Nature Materials, 2011, 10, 456-461.	13.3	1,894
563	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
564	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
565	The Effect of Hole Transport Material Pore Filling on Photovoltaic Performance in Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 407-414.	10.2	130
566	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
567	Unsymmetrical squaraine dimer with an extended Ï€-electron framework: An approach in harvesting near infra-red photons for energy conversion. Dyes and Pigments, 2010, 87, 30-38.	2.0	43
568	Preferential Orientation in Hematite Films for Solar Hydrogen Production via Water Splitting. Chemical Vapor Deposition, 2010, 16, 291-295.	1.4	55
569	Controlling Photoactivity in Ultrathin Hematite Films for Solar Waterâ€Splitting. Advanced Functional Materials, 2010, 20, 1099-1107.	7.8	357
570	Highly Efficient Mesoscopic Dyeâ€Sensitized Solar Cells Based on Donorâ€"Acceptorâ€Substituted Porphyrins. Angewandte Chemie - International Edition, 2010, 49, 6646-6649.	7.2	762
571	An organic redox electrolyte to rival triiodide/iodide in dye-sensitized solar cells. Nature Chemistry, 2010, 2, 385-389.	6.6	510
572	Synthesis of mesoporous titanium dioxide by soft template based approach: characterization and application in dye-sensitized solar cells. Energy and Environmental Science, 2010, 3, 838.	15.6	98
573	Application of Cu(ii) and Zn(ii) coproporphyrins as sensitizers for thin film dye sensitized solar cells. Energy and Environmental Science, 2010, 3, 956.	15.6	37
574	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
575	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells. ACS Nano, 2010, 4, 3374-3380.	7.3	781
576	Decoupling Feature Size and Functionality in Solution-Processed, Porous Hematite Electrodes for Solar Water Splitting. Nano Letters, 2010, 10, 4155-4160.	4.5	290

#	Article	IF	Citations
577	Dye-sensitized solar cells based on poly (3,4-ethylenedioxythiophene) counter electrode derived from ionic liquids. Journal of Materials Chemistry, 2010, 20, 1654.	6.7	208
578	A new family of substituted triethoxysilyl iodides as organic iodide sources for dye-sensitised solar cells. Journal of Materials Chemistry, 2010, 20, 3694.	6.7	11
579	Fabrication and performance of a monolithic dye-sensitized TiO2/Cu(In,Ga)Se2 thin film tandem solar cell. Applied Physics Letters, 2009, 94, 173508.	1.5	49
580	Development of multijunction thin film solar cells. , 2009, , .		3
581	Molecular Design of Unsymmetrical Squaraine Dyes for High Efficiency Conversion of Low Energy Photons into Electrons Using TiO₂ Nanocrystalline Films. Advanced Functional Materials, 2009, 19, 2720-2727.	7.8	197
582	Anisotropic photocatalytic properties of hematite. Aquatic Sciences, 2009, 71, 151-159.	0.6	41
583	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
584	Recent Advances in Sensitized Mesoscopic Solar Cells. Accounts of Chemical Research, 2009, 42, 1788-1798.	7.6	2,502
585	WO₃âˆ’Fe₂O₃ Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. Chemistry of Materials, 2009, 21, 2862-2867.	3.2	455
586	High efficient donorâ€“acceptor ruthenium complex for dye-sensitized solar cell applications. Energy and Environmental Science, 2009, 2, 100-102.	15.6	104
587	Gallium arsenide p-i-n radial structures for photovoltaic applications. Applied Physics Letters, 2009, 94, .	1.5	270
588	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
589	The 2,2,6,6â€•Tetramethylâ€•1â€•piperidinyloxy Radical: An Efficient, Iodineâ€•Free Redox Mediator for Dyeâ€•Sensitized Solar Cells. Advanced Functional Materials, 2008, 18, 341-346.	7.8	254
590	High-performance dye-sensitized solar cells based on solvent-free electrolytes produced from eutectic melts. Nature Materials, 2008, 7, 626-630.	13.3	622
591	Molecular Engineering of Organic Sensitizers for Dye-Sensitized Solar Cell Applications. Journal of the American Chemical Society, 2008, 130, 6259-6266.	6.6	625
592	The Function of a TiO₂ Compact Layer in Dye-Sensitized Solar Cells Incorporating â€œPlanarâ€• Organic Dyes. Nano Letters, 2008, 8, 977-981.	4.5	195
593	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
594	Molecular Wiring of Olivine LiFePO₄ by Ruthenium(II)-Bipyridine Complexes and by Their Assemblies with Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 8708-8714.	1.5	13

#	Article	IF	Citations
595	Transition Metal Complexes as Sensitizers for Efficient Mesoscopic Solar Cells. Bulletin of Japan Society of Coordination Chemistry, 2008, 51, 3-12.	0.1	12
596	A Novel Efficient, Iodide-Free Redox Mediator for Dye-Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2007, 1013, 1.	0.1	1
597	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
598	Efficient co-sensitization of nanocrystalline TiO2 films by organic sensitizers. Chemical Communications, 2007, , 4680.	2.2	198
599	Enhancement of Electrochemical Activity of LiFePO₄ (olivine) by Amphiphilic Ru-bipyridine Complex Anchored to a Carbon Nanotube. Chemistry of Materials, 2007, 19, 4716-4721.	3.2	39
600	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
601	High Molar Extinction Coefficient Ion-Coordinating Ruthenium Sensitizer for Efficient and Stable Mesoscopic Dye-Sensitized Solar Cells. Advanced Functional Materials, 2007, 17, 154-160.	7.8	147
602	Novel Nanoâ€Structured Silicaâ€Based Electrolytes Containing Quaternary Ammonium Iodide Moieties. Advanced Functional Materials, 2007, 17, 3200-3206.	7.8	43
603	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
604	Preparation of tin dioxide nanotubes via electrosynthesis in a template. Journal of Materials Chemistry, 2006, 16, 2843-2845.	6.7	52
605	New Benchmark for Water Photooxidation by Nanostructured Î±-Fe2O3Films. Journal of the American Chemical Society, 2006, 128, 15714-15721.	6.6	1,477
606	Nanocrystalline Injection Solar Cells. , 2006, , 363-385.		5
607	Alkyl Chain Barriers for Kinetic Optimization in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 16376-16383.	6.6	254
608	High-Efficiency Organic-Dye- Sensitized Solar Cells Controlled by Nanocrystalline-TiO2 Electrode Thickness. Advanced Materials, 2006, 18, 1202-1205.	11.1	997
609	Improved Stability of Solid State Light Emitting Electrochemical Cells Consisting of Ruthenium and Iridium Complexes. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	1
610	Pseudocapacitive Lithium Storage in TiO2(B). Chemistry of Materials, 2005, 17, 1248-1255.	3.2	467
611	Control of dark current in photoelectrochemical (TiO2/Iâ€“â€“I3â€“) and dye-sensitized solar cells. Chemical Communications, 2005, , 4351.	2.2	561
612	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

#	Article	IF	Citations
613	Femtosecond Dynamics of Interfacial and Intermolecular Electron Transfer at Eosin-Sensitized Metal Oxide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 3215-3224.	1.2	98
614	Real-Time Observation of Photoinduced Adiabatic Electron Transfer in Strongly Coupled Dye/Semiconductor Colloidal Systems with a 6 fs Time Constant. Journal of Physical Chemistry B, 2002, 106, 6494-6499.	1.2	239
615	Improvement of the photovoltaic performance of solid-state dye-sensitized device by silver complexation of the sensitizer cis-bis(4,4â€²-dicarboxy-2,2â€²bipyridine)-bis(isothiocyanato) ruthenium(II). Applied Physics Letters, 2002, 81, 367-369.	1.5	216
616	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
617	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
618	Photoelectrochemical cells. Nature, 2001, 414, 338-344.	13.7	11,931
619	DYES AND MATERIALS FOR SENSITISED ELECTROCHEMICAL PHOTOVOLTAICS. , 2001, , .		0
620	Modification of TiO2 Heterojunctions with Benzoic Acid Derivatives in Hybrid Molecular Solid-State Devices. Advanced Materials, 2000, 12, 447-451.	11.1	216
621	Electrodeposited Nanocomposite n-p Heterojunctions for Solid-State Dye-Sensitized Photovoltaics. Advanced Materials, 2000, 12, 1263-1267.	11.1	392
622	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
623	Molecular Photovoltaics. Accounts of Chemical Research, 2000, 33, 269-277.	7.6	2,625
624	A new efficient photosensitizer for nanocrystalline solar cells: synthesis and characterization of cis-bis(4,7-dicarboxy-1,10-phenanthroline)dithiocyanato ruthenium(II). Dalton Transactions RSC, 2000, , 2817-2822.	2.3	86
625	Catechol as an efficient anchoring group for attachment of rutheniumâ€“polypyridine photosensitisers to solar cells based on nanocrystalline TiO2 films. New Journal of Chemistry, 2000, 24, 651-652.	1.4	115
626	Parameters Influencing Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. Journal of Physical Chemistry B, 2000, 104, 538-547.	1.2	613
627	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
628	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
629	Acidâ^'Base Equilibria of (2,2â€˜-Bipyridyl-4,4â€˜-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
630	Solid-state dye-sensitized mesoporous TiO2 solar cells with high photon-to-electron conversion efficiencies. Nature, 1998, 395, 583-585.	13.7	3,353

#	Article	IF	Citations
631	Determination of the Surface Concentration of Crown Ethers in Supported Lipid Membranes by Capacitance Measurements. Langmuir, 1998, 14, 2573-2576.	1.6	5
632	Self-Organization of TiO2Nanoparticles in Thin Films. Chemistry of Materials, 1998, 10, 2419-2425.	3.2	334
633	Photovoltaic performance of injection solar cells and other applications of nanocrystalline oxide layers. Journal of Chemical Sciences, 1997, 109, 447-469.	0.7	24
634	Nanocrystalline Titanium Oxide Electrodes for Photovoltaic Applications. Journal of the American Ceramic Society, 1997, 80, 3157-3171.	1.9	1,418
635	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. The Journal of Physical Chemistry, 1996, 100, 20056-20062.	2.9	815
636	Electrochemical and Photoelectrochemical Investigation of Single-Crystal Anatase. Journal of the American Chemical Society, 1996, 118, 6716-6723.	6.6	1,312
637	Highly efficient semiconducting TiO2 photoelectrodes prepared by aerosol pyrolysis. Electrochimica Acta, 1995, 40, 643-652.	2.6	413
638	Preparation of TiO2 (anatase) films on electrodes by anodic oxidative hydrolysis of TiCl3. Journal of Electroanalytical Chemistry, 1993, 346, 291-307.	1.9	283
639	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
640	A low-cost, high-efficiency solar cell based on dye-sensitized colloidal TiO2 films. Nature, 1991, 353, 737-740.	13.7	26,665
641	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 0, , .		0
642	Molelcular Photovoltaics and Perovskite Solar Cells. , 0, , .		0
643	Extraordinary Stability of Perovskite Solar Cells Yielding Photovoltage above 1.5V. , 0, , .		0
644	Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , .		0
645	Supramolecular Engineering of Layered Hybrid Perovskite Materials for Stable Perovskite Solar Cells. , 0, , .		0
646	Combined precursor engineering and grain anchoring leading to MAâ€free, phaseâ€pure and stable Î±â€formamidinium lead iodide perovskites for efficient solar cells. Angewandte Chemie, 0, , .	1.6	11
647	Supramolecular Engineering of Layered Hybrid Perovskite Materials for Stable Perovskite Solar Cells. , 0, , .		0
648	Elucidation of Photovoltage Enhancements and Charge Transport in Multijunction Cu2O Photocathode through Semiconductor Simulations. , 0, , .		0

#	Article	IF	Citations
649	Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , .		0
650	Holistic Passivation of Perovskite Solar Cells for Space Applications. , 0, , .		0
651	Reversible photo de-mixing in two-dimensional Dion-Jacobson mixed halide perovskites: photo-miscibility gap mapped. , 0, , .		0