Henry J Snaith

List of Publications by Year
in descending order

482	142,188	151 156	75 371
papers	citations	h-index	g-index

498	498	498	43283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Operando, Photovoltaic, and Microscopic Evaluation of Recombination Centers in Halide Perovskite-Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34171-34179.	4.0	4
2	Interplay of Structure, Chargeâ€Carrier Localization and Dynamics in Copperâ€Silverâ€Bismuthâ€Halide Semiconductors. Advanced Functional Materials, 2022, 32, .	7.8	19
3	Lowâ€Cost Dopantâ€Free Carbazole Enamine Holeâ€Transporting Materials for Thermally Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	7
4	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. Energy and Environmental Science, 2022, 15, 714-726.	15.6	68
5	Quantification of Efficiency Losses Due to Mobile Ions in Perovskite Solar Cells via Fast Hysteresis Measurements. Solar Rrl, 2022, 6, .	3.1	36
6	A Theoretical Framework for Microscopic Surface and Interface Dipoles, Work Functions, and Valence Band Alignments in 2D and 3D Halide Perovskite Heterostructures. ACS Energy Letters, 2022, 7, 349-357.	8.8	17
7	Utilizing Nonpolar Organic Solvents for the Deposition of Metal-Halide Perovskite Films and the Realization of Organic Semiconductor/Perovskite Composite Photovoltaics. ACS Energy Letters, 2022, 7, 1246-1254.	8.8	12
8	Interlayer excitons in MoSe₂/2D perovskite hybrid heterostructures â€“ the interplay between charge and energy transfer. Nanoscale, 2022, 14, 8085-8095.	2.8	11
9	Insights into the charge carrier dynamics in perovskite/Si tandem solar cells using transient photocurrent spectroscopy. Applied Physics Letters, 2022, 120, .	1.5	3
10	Solvent-Free Method for Defect Reduction and Improved Performance of p-i-n Vapor-Deposited Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 1903-1911.	8.8	33
11	Optoelectronic Properties of Mixed Iodideâ€“Bromide Perovskites from First-Principles Computational Modeling and Experiment. Journal of Physical Chemistry Letters, 2022, 13, 4184-4192.	2.1	16
12	Scalable processing for realizing 21.7%-efficient all-perovskite tandem solar modules. Science, 2022, 376, 762-767.	6.0	127
13	Rapid sequestration of perovskite solar cell-derived lead in soil. Journal of Hazardous Materials, 2022, 436, 128995.	6.5	13
14	Visualizing Macroscopic Inhomogeneities in Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 2311-2322.	8.8	20
15	Improving performance of fully scalable, flexible transparent conductive films made from carbon nanotubes and ethylene-vinyl acetate. Energy Reports, 2022, 8, 48-60.	2.5	2
16	Excellent Longâ€Range Chargeâ€Carrier Mobility in 2D Perovskites. Advanced Functional Materials, 2022, 32, .	7.8	20
17	Dimethylammonium: An Aâ€Site Cation for Modifying CsPbI₃. Solar Rrl, 2021, 5, .	3.1	25
18	Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. Nano Energy, 2021, 80, 105511.	8.2	54

#	Article	IF	Citations
19	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	10.2	93
20	Understanding Dark Current-Voltage Characteristics in Metal-Halide Perovskite Single Crystals. Physical Review Applied, 2021, 15, .	1.5	30
21	A polymeric bis(di-p-anisylamino)fluorene hole-transport material for stable n-i-p perovskite solar cells. New Journal of Chemistry, 2021, 45, 15017-15021.	1.4	3
22	Revealing Charge Carrier Mobility and Defect Densities in Metal Halide Perovskites via Space-Charge-Limited Current Measurements. ACS Energy Letters, 2021, 6, 1087-1094.	8.8	254
23	Crystallographic, Optical, and Electronic Properties of the Cs2AgBi1â€“xInxBr6 Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. ACS Energy Letters, 2021, 6, 1073-1081.	8.8	19
24	Halide Segregation in Mixed-Halide Perovskites: Influence of A-Site Cations. ACS Energy Letters, 2021, 6, 799-808.	8.8	129
25	Chemical Interaction at the MoO₃/CH₃NH₃PbI_{3â€“x}Cl_x Interface. ACS Applied Materials & Interfaces, 2021, 13, 17085-17092.	4.0	13
26	Ultrafast Excited-State Localization in Cs₂AgBiBr₆ Double Perovskite. Journal of Physical Chemistry Letters, 2021, 12, 3352-3360.	2.1	81
27	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. Nature, 2021, 591, 72-77.	13.7	471
28	Highly Absorbing Lead-Free Semiconductor Cu₂AgBiI₆ for Photovoltaic Applications from the Quaternary Culâ€“Aglâ€“BiI₃ Phase Space. Journal of the American Chemical Society, 2021, 143, 3983-3992.	6.6	59
29	Dynamic Effects and Hydrogen Bonding in Mixed-Halide Perovskite Solar Cell Absorbers. Journal of Physical Chemistry Letters, 2021, 12, 3885-3890.	2.1	12
30	Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254.	13.3	40
31	Charge-Carrier Mobility and Localization in Semiconducting Cu₂AgBiI₆ for Photovoltaic Applications. ACS Energy Letters, 2021, 6, 1729-1739.	8.8	41
32	Balanced Charge Carrier Transport Mediated by Quantum Dot Film Post-organization for Light-Emitting Diode Applications. ACS Applied Materials & Interfaces, 2021, 13, 26170-26179.	4.0	8
33	Universal Current Losses in Perovskite Solar Cells Due to Mobile Ions. Advanced Energy Materials, 2021, 11, 2101447.	10.2	52
34	The atomic-scale microstructure of metal halide perovskite elucidated via low-dose electron microscopy. Microscopy and Microanalysis, 2021, 27, 966-968.	0.2	0
35	Revealing Ultrafast Charge-Carrier Thermalization in Tin-Iodide Perovskites through Novel Pumpâ€“Pushâ€“Probe Terahertz Spectroscopy. ACS Photonics, 2021, 8, 2509-2518.	3.2	14
36	Identification of lead vacancy defects in lead halide perovskites. Nature Communications, 2021, 12, 5566.	5.8	51

#	Article	IF	Citations
37	Selfâ€Assembled Perovskite Nanoislands on CH₃NH₃PbI₃ Cuboid Single Crystals by Energetic Surface Engineering. Advanced Functional Materials, 2021, 31, 2105542.	7.8	9
38	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable pâ€“iâ€“n perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 9347-9353.	5.2	6
39	Tunable transition metal complexes as hole transport materials for stable perovskite solar cells. Chemical Communications, 2021, 57, 2093-2096.	2.2	4
40	2D Position-Sensitive Hybrid-Perovskite Detectors. ACS Applied Materials & Interfaces, 2021, 13, 54527-54535.	4.0	11
41	In situ cadmium surface passivation of perovskite nanocrystals for blue LEDs. Journal of Materials Chemistry A, 2021, 9, 26750-26757.	5.2	18
42	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the Culâ€“Aglâ€“BiI₃ Phase Space by Synthesis of 3D CuAgBiI₅. Inorganic Chemistry, 2021, 60, 18154-18167.	1.9	15
43	Phase segregation in mixed-halide perovskites affects charge-carrier dynamics while preserving mobility. Nature Communications, 2021, 12, 6955.	5.8	72
44	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	10.2	66
45	Role of Electronic States and Their Coupling on Radiative Losses of Open-Circuit Voltage in Organic Photovoltaics. ACS Applied Materials & Interfaces, 2021, 13, 60279-60287.	4.0	6
46	Selfâ€Assembled Perovskite Nanoislands on CH₃NH₃PbI₃ Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). Advanced Functional Materials, 2021, 31, .	7.8	1
47	A photo-crosslinkable bis-triarylamine side-chain polymer as a hole-transport material for stable perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 190-198.	2.5	22
48	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. Energy and Environmental Science, 2020, 13, 268-276.	15.6	40
49	Revealing the origin of voltage loss in mixed-halide perovskite solar cells. Energy and Environmental Science, 2020, 13, 258-267.	15.6	283
50	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. Chemistry of Materials, 2020, 32, 114-120.	3.2	8
51	Elucidating the Role of a Tetrafluoroborateâ€Based Ionic Liquid at the nâ€Type Oxide/Perovskite Interface. Advanced Energy Materials, 2020, 10, 1903231.	10.2	81
52	Toward Understanding Space-Charge Limited Current Measurements on Metal Halide Perovskites. ACS Energy Letters, 2020, 5, 376-384.	8.8	211
53	Thermally Stable Passivation toward High Efficiency Inverted Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3336-3343.	8.8	19
54	Control over Crystal Size in Vapor Deposited Metal-Halide Perovskite Films. ACS Energy Letters, 2020, 5, 710-717.	8.8	72

#	Article	IF	Citations
55	Competitive Nucleation Mechanism for CsPbBr₃ Perovskite Nanoplatelet Growth. Journal of Physical Chemistry Letters, 2020, 11, 6535-6543.	2.1	31
56	Spectral shifts upon halide segregation in perovskite nanocrystals observed via transient absorption spectroscopy. MRS Advances, 2020, 5, 2613-2621.	0.5	0
57	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. Journal of the American Chemical Society, 2020, 142, 19799-19803.	6.6	14
58	Observation of Charge Generation via Photoinduced Stark Effect in Mixed-Cation Lead Bromide Perovskite Thin Films. Journal of Physical Chemistry Letters, 2020, 11, 10081-10087.	2.1	11
59	A Phosphine Oxide Route to Formamidinium Lead Tribromide Nanoparticles. Chemistry of Materials, 2020, 32, 7172-7180.	3.2	8
60	Atomic-scale microstructure of metal halide perovskite. Science, 2020, 370, .	6.0	183
61	Photoinduced Vibrations Drive Ultrafast Structural Distortion in Lead Halide Perovskite. Journal of the American Chemical Society, 2020, 142, 16569-16578.	6.6	30
62	Impact of Tin Fluoride Additive on the Properties of Mixed Tinâ€Lead Iodide Perovskite Semiconductors. Advanced Functional Materials, 2020, 30, 2005594.	7.8	48
63	Chargeâ€Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. Advanced Functional Materials, 2020, 30, 2004312.	7.8	67
64	Strong performance enhancement in lead-halide perovskite solar cells through rapid, atmospheric deposition of n-type buffer layer oxides. Nano Energy, 2020, 75, 104946.	8.2	20
65	Revealing Factors Influencing the Operational Stability of Perovskite Light-Emitting Diodes. ACS Nano, 2020, 14, 8855-8865.	7.3	57
66	Understanding the Performance-Limiting Factors of Cs₂AgBiBr₆ Double-Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2200-2207.	8.8	161
67	CsPbBr₃ Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 1909904.	7.8	29
68	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102.	6.0	461
69	Vacancy-Ordered Double Perovskite Cs₂TeI₆ Thin Films for Optoelectronics. Chemistry of Materials, 2020, 32, 6676-6684.	3.2	41
70	Thermal stability of CH3NH3PbIxCl3-x versus [HC(NH2)2]0.83Cs0.17PbI2.7Br0.3 perovskite films by X-ray photoelectron spectroscopy. Applied Surface Science, 2020, 513, 145596.	3.1	13
71	Azetidinium as cation in lead mixed halide perovskite nanocrystals of optoelectronic quality. AIP Advances, 2020, 10, 025001.	0.6	0
72	Isotype Heterojunction Solar Cells Using n-Type Sb₂Se₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	3.2	83

#	Article	IF	Citations
73	Cslâ€Antisolvent Adduct Formation in Allâ€Inorganic Metal Halide Perovskites. Advanced Energy Materials, 2020, 10, 1903365.	10.2	55
74	Trap States, Electric Fields, and Phase Segregation in Mixedâ€Halide Perovskite Photovoltaic Devices. Advanced Energy Materials, 2020, 10, 1903488.	10.2	79
75	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	19.8	797
76	Light soaking in metal halide perovskites studied via steady-state microwave conductivity. Communications Physics, 2020, 3, .	2.0	20
77	Metal composition influences optoelectronic quality in mixed-metal leadâ€“tin triiodide perovskite solar absorbers. Energy and Environmental Science, 2020, 13, 1776-1787.	15.6	87
78	Direct Silicon Heterostructures With Methylammonium Lead Iodide Perovskite for Photovoltaic Applications. IEEE Journal of Photovoltaics, 2020, 10, 945-951.	1.5	5
79	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr₃ Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 3681-3688.	2.1	55
80	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. Advanced Energy Materials, 2020, 10, 1903653.	10.2	28
81	Maximizing the external radiative efficiency of hybrid perovskite solar cells. Pure and Applied Chemistry, 2020, 92, 697-706.	0.9	9
82	Fabrication of Efficient and Stable CsPbI₃ Perovskite Solar Cells through Cation Exchange Process. Advanced Energy Materials, 2019, 9, 1901685.	10.2	101
83	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073.	15.6	111
84	Microsecond Carrier Lifetimes, Controlled p-Doping, and Enhanced Air Stability in Low-Bandgap Metal Halide Perovskites. ACS Energy Letters, 2019, 4, 2301-2307.	8.8	46
85	Impurity Tracking Enables Enhanced Control and Reproducibility of Hybrid Perovskite Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 28851-28857.	4.0	38
86	Growth modes and quantum confinement in ultrathin vapour-deposited MAPbI₃ films. Nanoscale, 2019, 11, 14276-14284.	2.8	51
87	Planar perovskite solar cells with long-term stability using ionic liquid additives. Nature, 2019, 571, 245-250.	13.7	1,103
88	Overcoming Zinc Oxide Interface Instability with a Methylammoniumâ€Free Perovskite for Highâ€Performance Solar Cells. Advanced Functional Materials, 2019, 29, 1900466.	7.8	129
89	Oxidative Passivation of Metal Halide Perovskites. Joule, 2019, 3, 2716-2731.	11.7	81
90	Dual-Source Coevaporation of Low-Bandgap FA_{1â€“x}Cs_xSn_{1â€“y}Pb_yI₃ Perovskites for Photovoltaics. ACS Energy Letters, 2019, 4, 2748-2756.	8.8	43

#	Article	IF	Citations
91	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO₃) Electron Transport Layer. ACS Applied Energy Materials, 2019, 2, 8090-8097.	2.5	51
92	Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr₃ Single Crystal. Nano Letters, 2019, 19, 7054-7061.	4.5	41
93	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. Nature Communications, 2019, 10, 4475.	5.8	49
94	Charge-Carrier Cooling and Polarization Memory Loss in Formamidinium Tin Triiodide. Journal of Physical Chemistry Letters, 2019, 10, 6038-6047.	2.1	16
95	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. Energy and Environmental Science, 2019, 12, 169-176.	15.6	115
96	Low cost triazatruxene hole transporting material for >20% efficiency perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 5235-5243.	2.7	50
97	Chargeâ€Carrier Dynamics, Mobilities, and Diffusion Lengths of 2Dâ€“3D Hybrid Butylammoniumâ€“Cesiumâ€“Formamidinium Lead Halide Perovskites. Advanced Functional Materials, 2019, 29, 1902656.	7.8	45
98	Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs₂AgBiBr₆. Journal of Materials Chemistry C, 2019, 7, 8350-8356.	2.7	149
99	High Responsivity and Response Speed Singleâ€Layer Mixedâ€Cation Lead Mixedâ€Halide Perovskite Photodetectors Based on Nanogap Electrodes Manufactured on Largeâ€Area Rigid and Flexible Substrates. Advanced Functional Materials, 2019, 29, 1901371.	7.8	39
100	Inverted perovskite solar cells with air stable diketopyrrolopyrrole-based electron transport layer. Solar Energy, 2019, 186, 9-16.	2.9	5
101	Evidence and implications for exciton dissociation in lead halide perovskites. EPJ Web of Conferences, 2019, 205, 06018.	0.1	0
102	Long-Range Charge Extraction in Back-Contact Perovskite Architectures via Suppressed Recombination. Joule, 2019, 3, 1301-1313.	11.7	68
103	Photovoltaic solar cell technologies: analysing the state of the art. Nature Reviews Materials, 2019, 4, 269-285.	23.3	727
104	Oxide Analogs of Halide Perovskites and the New Semiconductor Ba₂AgIO₆. Journal of Physical Chemistry Letters, 2019, 10, 1722-1728.	2.1	36
105	Infrared Light Management Using a Nanocrystalline Silicon Oxide Interlayer in Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with Efficiency above 25%. Advanced Energy Materials, 2019, 9, 1803241.	10.2	239
106	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 25511-25520.	5.2	27
107	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 1185-1191.	4.0	31
108	Structural and Optical Properties of Cs₂AgBiBr₆ Double Perovskite. ACS Energy Letters, 2019, 4, 299-305.	8.8	146

#	Article	IF	Citations
109	Facile Synthesis of Stable and Highly Luminescent Methylammonium Lead Halide Nanocrystals for Efficient Light Emitting Devices. Journal of the American Chemical Society, 2019, 141, 1269-1279.	6.6	108
110	Electronic Traps and Phase Segregation in Lead Mixed-Halide Perovskite. ACS Energy Letters, 2019, 4, 75-84.	8.8	212
111	Spectral Response Measurements of Perovskite Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 220-226.	1.5	17
112	Solution-Processed All-Perovskite Multi-junction Solar Cells. Joule, 2019, 3, 387-401.	11.7	177
113	Present status and future prospects of perovskite photovoltaics. Nature Materials, 2018, 17, 372-376.	13.3	590
114	Balancing Charge Carrier Transport in a Quantum Dot Pâ€“N Junction toward Hysteresis-Free High-Performance Solar Cells. ACS Energy Letters, 2018, 3, 1036-1043.	8.8	37
115	Degradation Kinetics of Inverted Perovskite Solar Cells. Scientific Reports, 2018, 8, 5977.	1.6	44
116	Nonspiro, Fluoreneâ€Based, Amorphous Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. Advanced Science, 2018, 5, 1700811.	5.6	45
117	Hybrid Perovskites: Prospects for Concentrator Solar Cells. Advanced Science, 2018, 5, 1700792.	5.6	76
118	Evidence of Nitrogen Contribution to the Electronic Structure of the CH₃NH₃PbI₃ Perovskite. Chemistry - A European Journal, 2018, 24, 3539-3544.	1.7	20
119	In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. Energy and Environmental Science, 2018, 11, 383-393.	15.6	77
120	Impact of Bi³⁺ Heterovalent Doping in Organicâ€“Inorganic Metal Halide Perovskite Crystals. Journal of the American Chemical Society, 2018, 140, 574-577.	6.6	181
121	Direct Observation of Ultrafast Exciton Dissociation in Lead Iodide Perovskite by 2D Electronic Spectroscopy. ACS Photonics, 2018, 5, 852-860.	3.2	57
122	Spatially Resolved Insight into the Chemical and Electronic Structure of Solutionâ€Processed Perovskitesâ€”Why to (Not) Worry about Pinholes. Advanced Materials Interfaces, 2018, 5, 1701420.	1.9	11
123	Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. Nano Energy, 2018, 49, 324-332.	8.2	52
124	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	8.8	54
125	Exciton-Dominated Core-Level Absorption Spectra of Hybrid Organicâ€“Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 1852-1858.	2.1	22
126	The effect of ionic composition on acoustic phonon speeds in hybrid perovskites from Brillouin spectroscopy and density functional theory. Journal of Materials Chemistry C, 2018, 6, 3861-3868.	2.7	23

#	Article	IF	Citations
127	Perovskite/Colloidal Quantum Dot Tandem Solar Cells: Theoretical Modeling and Monolithic Structure. ACS Energy Letters, 2018, 3, 869-874.	8.8	77
128	Insights Into the Microscopic and Degradation Processes in Hybrid Perovskite Solar Cells Using Noise Spectroscopy. Solar Rrl, 2018, 2, 1700173.	3.1	13
129	High-efficiency perovskiteâ€“polymer bulk heterostructure light-emitting diodes. Nature Photonics, 2018, 12, 783-789.	15.6	715
130	Nanocrystalline silicon oxide interlayer in monolithic perovskite/silicon heterojunction tandem solar cells with total current density >39 mA/cm‹sup›2‹/sup›. , 2018, , .		2
131	Getting rid of anti-solvents: gas quenching for high performance perovskite solar cells. , 2018, , .		0
132	New Generation Hole Transporting Materials for Perovskite Solar Cells: Amideâ€Based Smallâ€Molecules with Nonconjugated Backbones. Advanced Energy Materials, 2018, 8, 1801605.	10.2	78
133	Perovskite based optoelectronics: molecular design perspectives â€“ a themed collection. Molecular Systems Design and Engineering, 2018, 3, 700-701.	1.7	2
134	Efficient and Stable Perovskite Solar Cells Using Lowâ€Cost Anilineâ€Based Enamine Holeâ€Transporting Materials. Advanced Materials, 2018, 30, e1803735.	11.1	68
135	Unravelling the Improved Electronic and Structural Properties of Methylammonium Lead Iodide Deposited from Acetonitrile. Chemistry of Materials, 2018, 30, 7737-7743.	3.2	23
136	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2018, 140, 14878-14886.	6.6	136
137	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. Advanced Materials, 2018, 30, e1804506.	11.1	156
138	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2472-2476.	8.8	257
139	Fractional deviations in precursor stoichiometry dictate the properties, performance and stability of perovskite photovoltaic devices. Energy and Environmental Science, 2018, 11, 3380-3391.	15.6	125
140	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. Science, 2018, 360, 1442-1446.	6.0	1,221
141	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. MRS Advances, 2018, 3, 3075-3084.	0.5	8
142	Interplay of Structural and Optoelectronic Properties in Formamidinium Mixed Tinâ€“Lead Triiodide Perovskites. Advanced Functional Materials, 2018, 28, 1802803.	7.8	63
143	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI‹sub›3‹/sub› by Theory and Experiment. ACS Energy Letters, 2018, 3, 1787-1794.	8.8	455
144	High irradiance performance of metal halide perovskites for concentrator photovoltaics. Nature Energy, 2018, 3, 855-861.	19.8	180

#	Article	IF	Citations
145	Aligned and Graded Typeâ€Ⅱ Ruddlesdenâ€“Popper Perovskite Films for Efficient Solar Cells. Advanced Energy Materials, 2018, 8, 1800185.	10.2	247
146	Layered Mixed Tinâ€“Lead Hybrid Perovskite Solar Cells with High Stability. ACS Energy Letters, 2018, 3, 2246-2251.	8.8	64
147	Meso-Superstructured Perovskite Solar Cells: Revealing the Role of the Mesoporous Layer. Journal of Physical Chemistry C, 2018, 122, 21239-21247.	1.5	27
148	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. Molecular Systems Design and Engineering, 2018, 3, 741-747.	1.7	9
149	Enabling reliability assessments of pre-commercial perovskite photovoltaics with lessons learned from industrial standards. Nature Energy, 2018, 3, 459-465.	19.8	123
150	The Path to Perovskite on Silicon PV. , 2018, 1, 1-8.		16
151	Microseconds, milliseconds and seconds: deconvoluting the dynamic behaviour of planar perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 5959-5970.	1.3	200
152	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. Nano Energy, 2017, 32, 551-557.	8.2	97
153	Cs₂InAgCl₆: A New Lead-Free Halide Double Perovskite with Direct Band Gap. Journal of Physical Chemistry Letters, 2017, 8, 772-778.	2.1	752
154	Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for Highâ€Efficiency Perovskite Solar Cells. Small, 2017, 13, 1602808.	5.2	36
155	23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. Nature Energy, 2017, 2, .	19.8	1,204
156	Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. Applied Energy, 2017, 194, 94-107.	5.1	76
157	Dopant-Free Planar nâ€“iâ€“p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. ACS Energy Letters, 2017, 2, 622-628.	8.8	73
158	Structureâ€“Property Relations of Methylamine Vapor Treated Hybrid Perovskite CH₃NH₃PbI₃ Films and Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 8092-8099.	4.0	44
159	Room temperature atomic layer deposited Al2O3 on CH3NH3PbI3 characterized by synchrotron-based X-ray photoelectron spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 49-52.	0.6	13
160	Spatially resolved studies of the phases and morphology of methylammonium and formamidinium lead tri-halide perovskites. Nanoscale, 2017, 9, 3222-3230.	2.8	44
161	Unraveling the Exciton Binding Energy and the Dielectric Constant in Single-Crystal Methylammonium Lead Triiodide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 1851-1855.	2.1	152
162	Solution-Processed Cesium Hexabromopalladate(IV), Cs₂PdBr₆, for Optoelectronic Applications. Journal of the American Chemical Society, 2017, 139, 6030-6033.	6.6	189

#	Article	IF	Citations
163	V-Shaped Hole-Transporting TPD Dimers Containing TrÃ¶gerâ€™s Base Core. Journal of Physical Chemistry C, 2017, 121, 10267-10274.	1.5	6
164	Efficient and Airâ€Stable Mixedâ€Cation Lead Mixedâ€Halide Perovskite Solar Cells with nâ€Doped Organic Electron Extraction Layers. Advanced Materials, 2017, 29, 1604186.	11.1	237
165	Crystallization Kinetics and Morphology Control of Formamidiniumâ€“Cesium Mixedâ€Cation Lead Mixedâ€Halide Perovskite via Tunability of the Colloidal Precursor Solution. Advanced Materials, 2017, 29, 1607039.	11.1	263
166	Impact of the Halide Cage on the Electronic Properties of Fully Inorganic Cesium Lead Halide Perovskites. ACS Energy Letters, 2017, 2, 1621-1627.	8.8	215
167	Amorphous Holeâ€Transporting Material based on 2,2â€²â€Bisâ€substituted 1,1â€²â€Biphenyl Scaffold for Application in Perovskite Solar Cells. Chemistry - an Asian Journal, 2017, 12, 958-962.	1.7	17
168	Trends in Perovskite Solar Cells and Optoelectronics: Status of Research and Applications from the PSCO Conference. ACS Energy Letters, 2017, 2, 857-861.	8.8	25
169	Electron injection and scaffold effects in perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 634-644.	2.7	58
170	Carbon Nanotubes in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601839.	10.2	107
171	ZrO₂/TiO₂ Electron Collection Layer for Efficient Meso-Superstructured Hybrid Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 2342-2349.	4.0	41
172	Influence of Interface Morphology on Hysteresis in Vaporâ€Deposited Perovskite Solar Cells. Advanced Electronic Materials, 2017, 3, 1600470.	2.6	63
173	Tailoring metal halide perovskites through metal substitution: influence on photovoltaic and material properties. Energy and Environmental Science, 2017, 10, 236-246.	15.6	230
174	Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. Chemistry of Materials, 2017, 29, 462-473.	3.2	35
175	Optoelectronic and spectroscopic characterization of vapour-transport grown Cu₂ZnSnS₄ single crystals. Journal of Materials Chemistry A, 2017, 5, 1192-1200.	5.2	145
176	Photovoltaic mixed-cation lead mixed-halide perovskites: links between crystallinity, photo-stability and electronic properties. Energy and Environmental Science, 2017, 10, 361-369.	15.6	482
177	Measurement and modelling of dark current decay transients in perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 452-462.	2.7	64
178	Solar Cells: Role of Microstructure in Oxygen Induced Photodegradation of Methylammonium Lead Triiodide Perovskite Films (Adv. Energy Mater. 20/2017). Advanced Energy Materials, 2017, 7, .	10.2	1
179	Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial Heterogeneity and Diffusion. ACS Nano, 2017, 11, 11488-11496.	7.3	105
180	The Potential of Multijunction Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2506-2513.	8.8	272

#	Article	IF	Citations
181	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. Joule, 2017, 1, 328-343.	11.7	148
182	A Conversation with Henry Snaith. ACS Energy Letters, 2017, 2, 2552-2554.	8.8	1
183	Route to Stable Lead-Free Double Perovskites with the Electronic Structure of CH₃NH₃PbI₃: A Case for Mixed-Cation [Cs/CH₃NH₃/CH(NH₂)₂]₂InBiBr₆. Journal of Physical Chemistry Letters, 2017, 8, 3917-3924.	2.1	82
184	Improving energy and visual performance in offices using building integrated perovskite-based solar cells: A case study in Southern Italy. Applied Energy, 2017, 205, 834-846.	5.1	51
185	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. Journal of Physical Chemistry C, 2017, 121, 27256-27262.	1.5	40
186	Consolidation of the optoelectronic properties of CH3NH3PbBr3 perovskite single crystals. Nature Communications, 2017, 8, 590.	5.8	207
187	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. Joule, 2017, 1, 155-167.	11.7	264
188	Role of Microstructure in Oxygen Induced Photodegradation of Methylammonium Lead Triiodide Perovskite Films. Advanced Energy Materials, 2017, 7, 1700977.	10.2	183
189	Vapour-Deposited Cesium Lead Iodide Perovskites: Microsecond Charge Carrier Lifetimes and Enhanced Photovoltaic Performance. ACS Energy Letters, 2017, 2, 1901-1908.	8.8	128
190	Nearâ€Infrared and Shortâ€Wavelength Infrared Photodiodes Based on Dyeâ€“Perovskite Composites. Advanced Functional Materials, 2017, 27, 1702485.	7.8	59
191	Predicting and optimising the energy yield of perovskite-on-silicon tandem solar cells under real world conditions. Energy and Environmental Science, 2017, 10, 1983-1993.	15.6	192
192	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. ACS Energy Letters, 2017, 2, 2044-2050.	8.8	79
193	Processing Solvent-Dependent Electronic and Structural Properties of Cesium Lead Triiodide Thin Films. Journal of Physical Chemistry Letters, 2017, 8, 4172-4176.	2.1	29
194	Efficient ambient-air-stable solar cells with 2Dâ€“3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. Nature Energy, 2017, 2, .	19.8	1,169
195	Metal halide perovskite tandem and multiple-junction photovoltaics. Nature Reviews Chemistry, 2017, 1, .	13.8	344
196	Large-Area, Highly Uniform Evaporated Formamidinium Lead Triiodide Thin Films for Solar Cells. ACS Energy Letters, 2017, 2, 2799-2804.	8.8	116
197	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. Science, 2017, 358, 1192-1197.	6.0	554
198	Mechanisms of Lithium Intercalation and Conversion Processes in Organicâ€“Inorganic Halide Perovskites. ACS Energy Letters, 2017, 2, 1818-1824.	8.8	111

#	Article	IF	Citations
199	How to Avoid Artifacts in Surface Photovoltage Measurements: A Case Study with Halide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2941-2943.	2.1	9
200	Near-neutral-colored semitransparent perovskite films using a combination of colloidal self-assembly and plasma etching. Solar Energy Materials and Solar Cells, 2017, 160, 193-202.	3.0	47
201	Inducing swift nucleation morphology control for efficient planar perovskite solar cells by hot-air quenching. Journal of Materials Chemistry A, 2017, 5, 3812-3818.	5.2	61
202	Investigating the Role of 4â€Tert Butylpyridine in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601079.	10.2	106
203	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. Energy and Environmental Science, 2017, 10, 145-152.	15.6	319
204	A two layer electrode structure for improved Li Ion diffusion and volumetric capacity in Li Ion batteries. Nano Energy, 2017, 31, 377-385.	8.2	60
205	Bandâ€Tail Recombination in Hybrid Lead Iodide Perovskite. Advanced Functional Materials, 2017, 27, 1700860.	7.8	127
206	Nanoimprinted distributed feedback lasers of solution processed hybrid perovskites. Optics Express, 2016, 24, 23677.	1.7	80
207	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. Nano Energy, 2016, 28, 269-276.	8.2	63
208	Bandgapâ€Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. Advanced Energy Materials, 2016, 6, 1502458.	10.2	1,265
209	Shuntâ€Blocking Layers for Semitransparent Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500837.	1.9	73
210	Synthesis and Investigation of the Vâ€shaped TrÃ¶gerâ€²s Base Derivatives as Holeâ€transporting Materials. Chemistry - an Asian Journal, 2016, 11, 2049-2056.	1.7	9
211	Perovskite Solar Cells: High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18% (Adv. Funct. Mater. 20/2016). Advanced Functional Materials, 2016, 26, 3551-3551.	7.8	6
212	Research Update: Strategies for improving the stability of perovskite solar cells. APL Materials, 2016, 4, .	2.2	126
213	Defect states in perovskite solar cells associated with hysteresis and performance. Applied Physics Letters, 2016, 109, .	1.5	69
214	Charge carrier recombination dynamics in perovskite and polymer solar cells. Applied Physics Letters, 2016, 108, .	1.5	42
215	Roomâ€Temperature Atomic Layer Deposition of Al₂O₃: Impact on Efficiency, Stability and Surface Properties in Perovskite Solar Cells. ChemSusChem, 2016, 9, 3401-3406.	3.6	76
216	Well-Defined Nanostructured, Single-Crystalline TiO₂ Electron Transport Layer for Efficient Planar Perovskite Solar Cells. ACS Nano, 2016, 10, 6029-6036.	7.3	196

#	Article	IF	Citations
217	InnenrÃ¼cktitelbild: Monodisperse Dualâ€Functional Upconversion Nanoparticles Enabled Nearâ€Infrared Organolead Halide Perovskite Solar Cells (Angew. Chem. 13/2016). Angewandte Chemie, 2016, 128, 4441-4441.	1.6	3
218	Carrier trapping and recombination: the role of defect physics in enhancing the open circuit voltage of metal halide perovskite solar cells. Energy and Environmental Science, 2016, 9, 3472-3481.	15.6	409
219	Optical phonons in methylammonium lead halide perovskites and implications for charge transport. Materials Horizons, 2016, 3, 613-620.	6.4	299
220	Charge-Carrier Dynamics in 2D Hybrid Metalâ€“Halide Perovskites. Nano Letters, 2016, 16, 7001-7007.	4.5	428
221	Radiative Monomolecular Recombination Boosts Amplified Spontaneous Emission in HC(NH₂)₂SnI₃ Perovskite Films. Journal of Physical Chemistry Letters, 2016, 7, 4178-4184.	2.1	110
222	Enhanced charge carrier transport properties in colloidal quantum dot solar cells via organic and inorganic hybrid surface passivation. Journal of Materials Chemistry A, 2016, 4, 18769-18775.	5.2	29
223	Engineering the Membrane/Electrode Interface To Improve the Performance of Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 20756-20765.	4.0	30
224	Identification and Mitigation of a Critical Interfacial Instability in Perovskite Solar Cells Employing Copper Thiocyanate Holeâ€Transporter. Advanced Materials Interfaces, 2016, 3, 1600571.	1.9	105
225	Light-induced annihilation of Frenkel defects in organo-lead halide perovskites. Energy and Environmental Science, 2016, 9, 3180-3187.	15.6	302
226	Cross-Linkable Fullerene Derivatives for Solution-Processed nâ€“iâ€“p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 648-653.	8.8	67
227	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI₃ Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16399-16411.	1.5	118
228	Forthcoming perspectives of photoelectrochromic devices: a critical review. Energy and Environmental Science, 2016, 9, 2682-2719.	15.6	122
229	Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.	15.6	372
230	Metal halide perovskites for energy applications. Nature Energy, 2016, 1, .	19.8	726
231	Solid-state supercapacitors with rationally designed heterogeneous electrodes fabricated by large area spray processing for wearable energy storage applications. Scientific Reports, 2016, 6, 25684.	1.6	68
232	Charge-carrier dynamics in hybrid metal halide perovskites (Conference Presentation). , 2016, , .		0
233	Photon recycling in Lead-Iodide Perovskite solar cells (Conference Presentation). , 2016, , .		2
234	Mechanism for rapid growth of organicâ€“inorganic halide perovskite crystals. Nature Communications, 2016, 7, 13303.	5.8	191

#	Article	IF	Citations
235	Electronâ€“phonon coupling in hybrid lead halide perovskites. Nature Communications, 2016, 7, .	5.8	919
236	Toward Lead-Free Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 1233-1240.	8.8	848
237	A Universal Deposition Protocol for Planar Heterojunction Solar Cells with High Efficiency Based on Hybrid Lead Halide Perovskite Families. Advanced Materials, 2016, 28, 10701-10709.	11.1	100
238	Photo-induced halide redistribution in organicâ€“inorganic perovskite films. Nature Communications, 2016, 7, 11683.	5.8	778
239	Perovskite-perovskite tandem photovoltaics with optimized band gaps. Science, 2016, 354, 861-865.	6.0	1,107
240	Structured Organicâ€“Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929.	11.1	257
241	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nâ€Doping of Mesostructured TiO₂. Advanced Energy Materials, 2016, 6, 1501868.	10.2	157
242	Band Gaps of the Lead-Free Halide Double Perovskites Cs₂BiAgCl₆ and Cs₂BiAgBr₆ from Theory and Experiment. Journal of Physical Chemistry Letters, 2016, 7, 2579-2585.	2.1	529
243	Highâ€Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. Advanced Functional Materials, 2016, 26, 3508-3514.	7.8	176
244	Oxygen Degradation in Mesoporous Al₂O₃/CH₃NH₃PbI<sub>3â€<sub>_xCl_x Perovskite Solar Cells: Kinetics and Mechanisms. Advanced Energy Materials, 2016, 6, 1600014.	10.2	211
245	Monodisperse Dualâ€Functional Upconversion Nanoparticles Enabled Nearâ€Infrared Organolead Halide Perovskite Solar Cells. Angewandte Chemie, 2016, 128, 4352-4356.	1.6	71
246	Monodisperse Dualâ€Functional Upconversion Nanoparticles Enabled Nearâ€Infrared Organolead Halide Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 4280-4284.	7.2	257
247	Effect of Structural Phase Transition on Charge-Carrier Lifetimes and Defects in CH₃NH₃SnI₃ Perovskite. Journal of Physical Chemistry Letters, 2016, 7, 1321-1326.	2.1	135
248	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. Journal of Physical Chemistry Letters, 2016, 7, 1254-1259.	2.1	761
249	Photon recycling in lead iodide perovskite solar cells. Science, 2016, 351, 1430-1433.	6.0	600
250	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 5981-5989.	4.0	184
251	Nonlinear Optical Response of Organicâ€“Inorganic Halide Perovskites. ACS Photonics, 2016, 3, 371-377.	3.2	154
252	The mechanism of toluene-assisted crystallization of organicâ€“inorganic perovskites for highly efficient solar cells. Journal of Materials Chemistry A, 2016, 4, 4464-4471.	5.2	86

#	Article	IF	Citations
253	Enhanced UV-light stability of planar heterojunction perovskite solar cells with caesium bromide interface modification. Energy and Environmental Science, 2016, 9, 490-498.	15.6	535
254	Pinhole-free perovskite films for efficient solar modules. Energy and Environmental Science, 2016, 9, 484-489.	15.6	252
255	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. Science, 2016, 351, 151-155.	6.0	2,514
256	Determination of the exciton binding energy and effective masses for methylammonium and formamidinium lead tri-halide perovskite semiconductors. Energy and Environmental Science, 2016, 9, 962-970.	15.6	603
257	Cation exchange for thin film lead iodide perovskite interconversion. Materials Horizons, 2016, 3, 63-71.	6.4	146
258	Structural and optical properties of methylammonium lead iodide across the tetragonal to cubic phase transition: implications for perovskite solar cells. Energy and Environmental Science, 2016, 9, 155-163.	15.6	423
259	Methylammonium lead triiodide perovskite solar cells: A new paradigm in photovoltaics. MRS Bulletin, 2015, 40, 641-645.	1.7	45
260	Chargeâ€Carrier Dynamics and Mobilities in Formamidinium Lead Mixedâ€Halide Perovskites. Advanced Materials, 2015, 27, 7938-7944.	11.1	343
261	Temperatureâ€Dependent Chargeâ€Carrier Dynamics in CH₃NH₃PbI₃ Perovskite Thin Films. Advanced Functional Materials, 2015, 25, 6218-6227.	7.8	785
262	Local Versus Longâ€Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organicâ€“Inorganic Lead Halide Perovskites. Advanced Science, 2015, 2, 1500136.	5.6	50
263	Photoluminescence: Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites (Adv. Sci. 9/2015). Advanced Science, 2015, 2, .	5.6	3
264	Plasmonicâ€Induced Photon Recycling in Metal Halide Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 5038-5046.	7.8	198
265	Stability of Metal Halide Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1500963.	10.2	1,045
266	Mapping Electric Fieldâ€Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. Advanced Energy Materials, 2015, 5, 1500962.	10.2	225
267	Non-ferroelectric nature of the conductance hysteresis in CH3NH3PbI3 perovskite-based photovoltaic devices. Applied Physics Letters, 2015, 106, .	1.5	189
268	Phosphonic anchoring groups in organic dyes for solid-state solar cells. Physical Chemistry Chemical Physics, 2015, 17, 18780-18789.	1.3	18
269	C₆₀ as an Efficient n-Type Compact Layer in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2399-2405.	2.1	324
270	Templated microstructural growth of perovskite thin films via colloidal monolayer lithography. Energy and Environmental Science, 2015, 8, 2041-2047.	15.6	119

#	Article	IF	Citations
271	Observation and Mediation of the Presence of Metallic Lead in Organicâ€“Inorganic Perovskite Films. ACS Applied Materials & Interfaces, 2015, 7, 13440-13444.	4.0	167
272	Novel low cost hole transporting materials for efficient organic-inorganic perovskite solar cells. , 2015, , .		1
273	Highly Efficient Perovskite Solar Cells with Tunable Structural Color. Nano Letters, 2015, 15, 1698-1702.	4.5	289
274	Formation of Thin Films of Organicâ€“Inorganic Perovskites for Highâ€Efficiency Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 3240-3248.	7.2	245
275	Crystallization Kinetics of Organicâ€“Inorganic Trihalide Perovskites and the Role of the Lead Anion in Crystal Growth. Journal of the American Chemical Society, 2015, 137, 2350-2358.	6.6	326
276	Ultrasmooth organicâ€“inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. Nature Communications, 2015, 6, 6142.	5.8	784
277	Characterization of Planar Lead Halide Perovskite Solar Cells by Impedance Spectroscopy, Open-Circuit Photovoltage Decay, and Intensity-Modulated Photovoltage/Photocurrent Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 3456-3465.	1.5	361
278	Improving the Long-Term Stability of Perovskite Solar Cells with a Porous Al₂O₃ Buffer Layer. Journal of Physical Chemistry Letters, 2015, 6, 432-437.	2.1	343
279	Electroluminescence from Organometallic Lead Halide Perovskiteâ€Conjugated Polymer Diodes. Advanced Electronic Materials, 2015, 1, 1500008.	2.6	62
280	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320.	7.3	173
281	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.	7.3	451
282	The Role of Hole Transport between Dyes in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2015, 119, 18975-18985.	1.5	35
283	Outshining Silicon. Scientific American, 2015, 313, 54-59.	1.0	23
284	A Conversation with Henry Snaith. ACS Central Science, 2015, 1, 159-160.	5.3	1
285	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. Nano Letters, 2015, 15, 4935-4941.	4.5	117
286	Direct measurement of the exciton binding energy and effective masses for charge carriers in organicâ€“inorganic tri-halide perovskites. Nature Physics, 2015, 11, 582-587.	6.5	1,651
287	Fast Charge-Carrier Trapping in TiO₂ Nanotubes. Journal of Physical Chemistry C, 2015, 119, 9159-9168.	1.5	50
288	Impact of microstructure on local carrier lifetime in perovskite solar cells. Science, 2015, 348, 683-686.	6.0	1,833

#	Article	IF	Citations
289	Perovskite photovoltachromic cells for building integration. Energy and Environmental Science, 2015, 8, 1578-1584.	15.6	125
290	Direct observation of an inhomogeneous chlorine distribution in CH₃NH₃PbI_{3â^'x}Cl_x layers: surface depletion and interface enrichment. Energy and Environmental Science, 2015, 8, 1609-1615.	15.6	97
291	Efficient room temperature aqueous Sb₂S₃ synthesis for inorganicâ€"organic sensitized solar cells with 5.1% efficiencies. Chemical Communications, 2015, 51, 8640-8643.	2.2	78
292	Employing PEDOT as the p-Type Charge Collection Layer in Regular Organicâ€"Inorganic Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1666-1673.	2.1	96
293	Highly efficient, flexible, indium-free perovskite solar cells employing metallic substrates. Journal of Materials Chemistry A, 2015, 3, 9141-9145.	5.2	133
294	Charge selective contacts, mobile ions and anomalous hysteresis in organicâ€"inorganic perovskite solar cells. Materials Horizons, 2015, 2, 315-322.	6.4	366
295	Metal-halide perovskites for photovoltaic and light-emitting devices. Nature Nanotechnology, 2015, 10, 391-402.	15.6	2,604
296	Perovskite Crystals for Tunable White Light Emission. Chemistry of Materials, 2015, 27, 8066-8075.	3.2	362
297	Dye Monolayers Used as the Hole Transporting Medium in Dyeâ€Sensitized Solar Cells. Advanced Materials, 2015, 27, 5889-5894.	11.1	19
298	Modeling Anomalous Hysteresis in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 3808-3814.	2.1	581
299	Quantum funneling in blended multi-band gap core/shell colloidal quantum dot solar cells. Applied Physics Letters, 2015, 107, 103902.	1.5	7
300	Inorganic caesium lead iodide perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 19688-19695.	5.2	1,419
301	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030.	5.8	620
302	Modulating the Electronâ€"Hole Interaction in a Hybrid Lead Halide Perovskite with an Electric Field. Journal of the American Chemical Society, 2015, 137, 15451-15459.	6.6	61
303	Optical properties and limiting photocurrent of thin-film perovskite solar cells. Energy and Environmental Science, 2015, 8, 602-609.	15.6	417
304	Efficient, Semitransparent Neutral-Colored Solar Cells Based on Microstructured Formamidinium Lead Trihalide Perovskite. Journal of Physical Chemistry Letters, 2015, 6, 129-138.	2.1	173
305	Hole-transport materials with greatly-differing redox potentials give efficient TiO2â€"[CH3NH3][PbX3] perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 2335-2338.	1.3	57
306	Optical Description of Mesostructured Organicâ€"Inorganic Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 48-53.	2.1	59

#	Article	IF	Citations
307	The real TiO₂/HTM interface of solid-state dye solar cells: role of trapped states from a multiscale modelling perspective. Nanoscale, 2015, 7, 1136-1144.	2.8	30
308	Out shining silicon. Scientific American, 2015, 313, 54-9.	1.0	2
309	Controlling coverage of solution cast materials with unfavourable surface interactions. Applied Physics Letters, 2014, 104, .	1.5	34
310	Steric engineering of metal-halide perovskites with tunable optical band gaps. Nature Communications, 2014, 5, 5757.	5.8	787
311	A Model for the Operation of Perovskite Based Hybrid Solar Cells: Formulation, Analysis, and Comparison to Experiment. SIAM Journal on Applied Mathematics, 2014, 74, 1935-1966.	0.8	53
312	Enhanced efficiency in the excitation of higher modes for atomic force microscopy and mechanical sensors operated in liquids. Applied Physics Letters, 2014, 105, .	1.5	9
313	Sub 150 Â°C processed meso-superstructured perovskite solar cells with enhanced efficiency (presentation video). , 2014, , .		0
314	Dependence of Dye Regeneration and Charge Collection on the Pore-Filling Fraction in Solid-State Dye-Sensitized Solar Cells. Advanced Functional Materials, 2014, 24, 668-677.	7.8	29
315	Morphological Control for High Performance, Solutionâ€Processed Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2014, 24, 151-157.	7.8	1,782
316	Excitons versus free charges in organo-lead tri-halide perovskites. Nature Communications, 2014, 5, 3586.	5.8	1,443
317	The Importance of Perovskite Pore Filling in Organometal Mixed Halide Sensitized TiO₂-Based Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1096-1102.	2.1	221
318	High Charge Carrier Mobilities and Lifetimes in Organolead Trihalide Perovskites. Advanced Materials, 2014, 26, 1584-1589.	11.1	2,785
319	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. Journal of Physical Chemistry Letters, 2014, 5, 1421-1426.	2.1	1,490
320	Towards Longâ€Term Photostability of Solidâ€State Dye Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1301667.	10.2	51
321	Supramolecular Halogen Bond Passivation of Organicâ€“Inorganic Halide Perovskite Solar Cells. Nano Letters, 2014, 14, 3247-3254.	4.5	651
322	Lead-free organicâ€“inorganic tin halide perovskites for photovoltaic applications. Energy and Environmental Science, 2014, 7, 3061-3068.	15.6	2,086
323	Observation of Annealing-Induced Doping in TiO₂ Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 1821-1827.	1.5	19
324	An Organic â€œDonorâ€Freeâ€•Dye with Enhanced Openâ€Circuit Voltage in Solidâ€State Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400166.	10.2	35

#	Article	IF	Citations
325	Solution Depositionâ€Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. Advanced Energy Materials, 2014, 4, 1400355.	10.2	325
326	Homogeneous Emission Line Broadening in the Organo Lead Halide Perovskite CH₃NH₃PbI_{3â€“x}Cl_x. Journal of Physical Chemistry Letters, 2014, 5, 1300-1306.	2.1	319
327	Low-Temperature Processed Electron Collection Layers of Graphene/TiO₂ Nanocomposites in Thin Film Perovskite Solar Cells. Nano Letters, 2014, 14, 724-730.	4.5	999
328	The Raman Spectrum of the CH₃NH₃PbI₃ Hybrid Perovskite: Interplay of Theory and Experiment. Journal of Physical Chemistry Letters, 2014, 5, 279-284.	2.1	555
329	Neutral Color Semitransparent Microstructured Perovskite Solar Cells. ACS Nano, 2014, 8, 591-598.	7.3	412
330	Sub-150 Â°C processed meso-superstructured perovskite solar cells with enhanced efficiency. Energy and Environmental Science, 2014, 7, 1142-1147.	15.6	560
331	Formamidinium lead trihalide: a broadly tunable perovskite for efficient planar heterojunction solar cells. Energy and Environmental Science, 2014, 7, 982.	15.6	3,352
332	Influence of ionizing dopants on charge transport in organic semiconductors. Physical Chemistry Chemical Physics, 2014, 16, 1132-1138.	1.3	58
333	Multiscale simulation of solid state dye sensitized solar cells including morphology effects. , 2014, , .		1
334	Enhanced Hole Extraction in Perovskite Solar Cells Through Carbon Nanotubes. Journal of Physical Chemistry Letters, 2014, 5, 4207-4212.	2.1	156
335	Heterojunction Modification for Highly Efficient Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2014, 8, 12701-12709.	7.3	614
336	Quantitative electron tomography investigation of a TiO₂based solar cell photoanode. Journal of Physics: Conference Series, 2014, 522, 012063.	0.3	0
337	Recombination Kinetics in Organic-Inorganic Perovskites: Excitons, Free Charge, and Subgap States. Physical Review Applied, 2014, 2, .	1.5	1,005
338	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 3836-3842.	2.1	238
339	Impact of Molecular Charge-Transfer States on Photocurrent Generation in Solid State Dye-Sensitized Solar Cells Employing Low-Band-Gap Dyes. Journal of Physical Chemistry C, 2014, 118, 16825-16830.	1.5	13
340	A Transparent Conductive Adhesive Laminate Electrode for Highâ€Efficiency Organicâ€Inorganic Lead Halide Perovskite Solar Cells. Advanced Materials, 2014, 26, 7499-7504.	11.1	169
341	Bright light-emitting diodes based on organometal halide perovskite. Nature Nanotechnology, 2014, 9, 687-692.	15.6	3,627
342	Preface: Special Topic on Perovskite Solar Cells. APL Materials, 2014, 2, .	2.2	5

#	Article	IF	Citations
343	Charge carrier recombination channels in the low-temperature phase of organic-inorganic lead halide perovskite thin films. APL Materials, 2014, 2, .	2.2	194
344	Performance and Stability Enhancement of Dyeâ€Sensitized and Perovskite Solar Cells by Al Doping of TiO₂. Advanced Functional Materials, 2014, 24, 6046-6055.	7.8	330
345	Enhanced Photoluminescence and Solar Cell Performance via Lewis Base Passivation of Organicâ€“Inorganic Lead Halide Perovskites. ACS Nano, 2014, 8, 9815-9821.	7.3	1,439
346	Carbon Nanotube/Polymer Composites as a Highly Stable Hole Collection Layer in Perovskite Solar Cells. Nano Letters, 2014, 14, 5561-5568.	4.5	1,073
347	The emergence of perovskite solar cells. Nature Photonics, 2014, 8, 506-514.	15.6	5,727
348	Lessons Learned: From Dyeâ€Sensitized Solar Cells to Allâ€Solidâ€State Hybrid Devices. Advanced Materials, 2014, 26, 4013-4030.	11.1	144
349	Charge-carrier dynamics in vapour-deposited films of the organolead halide perovskite CH₃NH₃PbI_{3â^'x}Cl_x. Energy and Environmental Science, 2014, 7, 2269-2275.	15.6	427
350	Polystyrene Templated Porous Titania Wells for Quantum Dot Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 14247-14252.	4.0	11
351	Oligothiophene Interlayer Effect on Photocurrent Generation for Hybrid TiO₂/P3HT Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 17226-17235.	4.0	27
352	Role of the crystallization substrate on the photoluminescence properties of organo-lead mixed halides perovskites. APL Materials, 2014, 2, .	2.2	89
353	Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organicâ€“Inorganic Lead Trihalide Perovskites. Journal of Physical Chemistry C, 2014, 118, 17171-17177.	1.5	225
354	Thermally Induced Structural Evolution and Performance of Mesoporous Block Copolymer-Directed Alumina Perovskite Solar Cells. ACS Nano, 2014, 8, 4730-4739.	7.3	269
355	Anomalous Hysteresis in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1511-1515.	2.1	2,190
356	Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. Chemistry of Materials, 2014, 26, 4004-4013.	3.2	129
357	Electronic Properties of Meso-Superstructured and Planar Organometal Halide Perovskite Films: Charge Trapping, Photodoping, and Carrier Mobility. ACS Nano, 2014, 8, 7147-7155.	7.3	370
358	Radiative efficiency of lead iodide based perovskite solar cells. Scientific Reports, 2014, 4, 6071.	1.6	283
359	Solid State Dye-Sensitized Solar Cell. , 2014, , 2029-2040.		1
360	A one-step low temperature processing route for organolead halide perovskite solar cells. Chemical Communications, 2013, 49, 7893.	2.2	212

#	Article	IF	Citations
361	Charge Transport Limitations in Self-Assembled TiO₂ Photoanodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 698-703.	2.1	111
362	Protic Ionic Liquids as p-Dopant for Organic Hole Transporting Materials and Their Application in High Efficiency Hybrid Solar Cells. Journal of the American Chemical Society, 2013, 135, 13538-13548.	6.6	167
363	Enhancement of Perovskite-Based Solar Cells Employing Coreâ€“Shell Metal Nanoparticles. Nano Letters, 2013, 13, 4505-4510.	4.5	505
364	The influence of 1D, meso- and crystal structures on charge transport and recombination in solid-state dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 12088.	5.2	22
365	Perovskites: The Emergence of a New Era for Low-Cost, High-Efficiency Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 3623-3630.	2.1	2,483
366	Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates. Nature Communications, 2013, 4, 2761.	5.8	1,525
367	Modeling the effect of ionic additives on the optical and electronic properties of a dye-sensitized TiO2 heterointerface: absorption, charge injection and aggregation. Journal of Materials Chemistry A, 2013, 1, 14675.	5.2	41
368	Overcoming ultraviolet light instability of sensitized TiO2 with meso-superstructured organometal tri-halide perovskite solar cells. Nature Communications, 2013, 4, 2885.	5.8	1,592
369	Electron-Hole Diffusion Lengths Exceeding 1 Micrometer in an Organometal Trihalide Perovskite Absorber. Science, 2013, 342, 341-344.	6.0	8,703
370	Efficient planar heterojunction perovskite solar cells by vapour deposition. Nature, 2013, 501, 395-398.	13.7	7,055
371	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 19850-19858.	1.5	19
372	Panchromatic â€œDye-Dopedâ€•Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. Journal of Physical Chemistry Letters, 2013, 4, 442-447.	2.1	14
373	Enhanced electronic contacts in SnO2â€“dyeâ€“P3HT based solid state dye sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2075.	1.3	17
374	Lithium salts as â€œredox activeâ€•p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2572.	1.3	557
375	Mesoporous TiO2 single crystals delivering enhanced mobility and optoelectronic device performance. Nature, 2013, 495, 215-219.	13.7	751
376	Critique of charge collection efficiencies calculated through small perturbation measurements of dye sensitized solar cells. Journal of Applied Physics, 2013, 113, .	1.1	8
377	Low-temperature processed meso-superstructured to thin-film perovskite solar cells. Energy and Environmental Science, 2013, 6, 1739.	15.6	1,509
378	Charge Density Dependent Mobility of Organic Holeâ€Transporters and Mesoporous TiO₂ Determined by Transient Mobility Spectroscopy: Implications to Dyeâ€Sensitized and Organic Solar Cells. Advanced Materials, 2013, 25, 3227-3233.	11.1	217

#	Article	IF	Citations
379	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. Nano Letters, 2013, 13, 3124-3128.	4.5	602
380	Diacetylene bridged triphenylamines as hole transport materials for solid state dye sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 6949.	5.2	105
381	Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 10023-10031.	7.3	65
382	Effect of polymer morphology on P3HT-based solid-state dye sensitized solar cells: an ultrafast spectroscopic investigation. Optics Express, 2013, 21, A469.	1.7	17
383	Large area hole transporter deposition in efficient solid-state dye-sensitized solar cell mini-modules. Journal of Applied Physics, 2013, 114, .	1.1	7
384	Fast electron trapping in anodized TiO<inf>2</inf> nanotubes. , 2013, , .		0
385	Semiconducting organic polymers as hole-transport layer in solid-state dye sensitized solar cells: comprehensive insights from femtosecond transient spectroscopy and device optimization. , 2012, , .		0
386	Solution-processed dye-sensitized ZnO phototransistors with extremely high photoresponsivity. Journal of Applied Physics, 2012, 112, .	1.1	34
387	Time-Evolution of Poly(3-Hexylthiophene) as an Energy Relay Dye in Dye-Sensitized Solar Cells. Nano Letters, 2012, 12, 634-639.	4.5	38
388	The origin of an efficiency improving â€œlight soakingâ€•effect in SnO2 based solid-state dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9566.	15.6	67
389	Unraveling the Function of an MgO Interlayer in Both Electrolyte and Solid-State SnO₂ Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 22840-22846.	1.5	57
390	Efficient Hybrid Solar Cells Based on Meso-Superstructured Organometal Halide Perovskites. Science, 2012, 338, 643-647.	6.0	9,249
391	A panchromatic anthracene-fused porphyrin sensitizer for dye-sensitized solar cells. RSC Advances, 2012, 2, 6846.	1.7	59
392	A polyfluoroalkyl imidazolium ionic liquid as iodide ion source in dye sensitized solar cells. Organic Electronics, 2012, 13, 2474-2478.	1.4	37
393	How should you measure your excitonic solar cells?. Energy and Environmental Science, 2012, 5, 6513.	15.6	187
394	The effect of selective interactions at the interface of polymerâ€“oxide hybrid solar cells. Energy and Environmental Science, 2012, 5, 9068.	15.6	42
395	Layerâ€byâ€Layer Formation of Blockâ€Copolymerâ€Derived TiO₂ for Solidâ€State Dyeâ€Sensitized Solar Cells. Small, 2012, 8, 432-440.	5.2	35
396	The renaissance of dye-sensitized solar cells. Nature Photonics, 2012, 6, 162-169.	15.6	1,197

#	Article	IF	Citations
397	The perils of solar cell efficiency measurements. Nature Photonics, 2012, 6, 337-340.	15.6	119
398	Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. Advanced Functional Materials, 2012, 22, 2160-2166.	7.8	49
399	Pore Filling of Spiroâ€OMeTAD in Solidâ€State Dyeâ€Sensitized Solar Cells Determined Via Optical Reflectometry. Advanced Functional Materials, 2012, 22, 5010-5019.	7.8	78
400	Triblockâ€Terpolymerâ€Directed Selfâ€Assembly of Mesoporous TiO₂: Highâ€Performance Photoanodes for Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 676-682.	10.2	58
401	On the role of semiconducting polymer as hole-transport layer in solid-state dye sensitized solar cells. , 2012, , .		0
402	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	15.6	88
403	Obviating the requirement for oxygen in SnO2-based solid-state dye-sensitized solar cells. Nanotechnology, 2011, 22, 225403.	1.3	40
404	Plasmonic Dye-Sensitized Solar Cells Using Coreâˆ'Shell Metalâˆ'Insulator Nanoparticles. Nano Letters, 2011, 11, 438-445.	4.5	550
405	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. Energy and Environmental Science, 2011, 4, 3051.	15.6	68
406	Surface Energy Relay Between Cosensitized Molecules in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 23204-23208.	1.5	30
407	Electron Mobility and Injection Dynamics in Mesoporous ZnO, SnO₂, and TiO₂ Films Used in Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 5158-5166.	7.3	698
408	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3â€Hexylthiophene)â€Based Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2011, 21, 2571-2579.	7.8	68
409	Lead-sulphide quantum-dot sensitization of tin oxide based hybrid solar cells. Solar Energy, 2011, 85, 1283-1290.	2.9	39
410	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells. Proceedings of SPIE, 2011, , .	0.8	3
411	Excitonic Materials for Hybrid Solar Cells and Energy Efficient Lighting. , 2011, , .		0
412	Improved performances in annealed P3HT-based dye sensitized solar cells (DSSC): a detailed morphological and spectroscopic investigation. , 2011, , .		0
413	Electrochemical Replication of Self-Assembled Block Copolymer Nanostructures. , 2011, , 63-116.		0
414	Synthesis and spectroscopic characterization of solution processable highly ordered polythiopheneâ€"carbon nanotube nanohybrid structures. Nanotechnology, 2010, 21, 025201.	1.3	75

#	Article	IF	Citations
415	Estimating the Maximum Attainable Efficiency in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 13-19.	7.8	458
416	Control of Solidâ€State Dyeâ€Sensitized Solar Cell Performance by Blockâ€Copolymerâ€Directed TiO₂ Synthesis. Advanced Functional Materials, 2010, 20, 1787-1796.	7.8	131
417	Efficient Singleâ€Layer Polymer Lightâ€Emitting Diodes. Advanced Materials, 2010, 22, 3194-3198.	11.1	243
418	SnO₂-Based Dye-Sensitized Hybrid Solar Cells Exhibiting Near Unity Absorbed Photon-to-Electron Conversion Efficiency. Nano Letters, 2010, 10, 1259-1265.	4.5	495
419	Solid-state dye-sensitized solar cells based on ZnO nanocrystals. Nanotechnology, 2010, 21, 205203.	1.3	45
420	Simple Approach to Hybrid Polymer/Porous Metal Oxide Solar Cells from Solution-Processed ZnO Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 3664-3674.	1.5	52
421	Ultrafast Terahertz Conductivity Dynamics in Mesoporous TiO₂: Influence of Dye Sensitization and Surface Treatment in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 1365-1371.	1.5	84
422	Enhanced Photoresponse in Solid-State Excitonic Solar Cells via Resonant Energy Transfer and Cascaded Charge Transfer from a Secondary Absorber. Nano Letters, 2010, 10, 4981-4988.	4.5	47
423	High-resolution TEM characterization of ZnO core-shell nanowires for dye-sensitized solar cells. Journal of Physics: Conference Series, 2010, 241, 012031.	0.3	5
424	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. Journal of Materials Chemistry, 2010, 20, 1261-1268.	6.7	40
425	Charge Generation and Photovoltaic Operation of Solidâ€State Dyeâ€Sensitized Solar Cells Incorporating a High Extinction Coefficient Indoleneâ€Based Sensitizer. Advanced Functional Materials, 2009, 19, 1810-1818.	7.8	125
426	Opticallyâ€Pumped Lasing in Hybrid Organicâ€“Inorganic Lightâ€Emitting Diodes. Advanced Functional Materials, 2009, 19, 2130-2136.	7.8	55
427	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Coreâˆ'shell Nanostructures. Journal of Physical Chemistry C, 2009, 113, 18515-18522.	1.5	85
428	Optical description of solid-state dye-sensitized solar cells. I. Measurement of layer optical properties. Journal of Applied Physics, 2009, 106, .	1.1	39
429	Optical description of solid-state dye-sensitized solar cells. II. Device optical modeling with implications for improving efficiency. Journal of Applied Physics, 2009, 106, .	1.1	15
430	Block copolymer directed synthesis of mesoporous TiO2for dye-sensitized solar cells. Soft Matter, 2009, 5, 134-139.	1.2	108
431	A Bicontinuous Double Gyroid Hybrid Solar Cell. Nano Letters, 2009, 9, 2807-2812.	4.5	446
432	Block Copolymer Morphologies in Dye-Sensitized Solar Cells: Probing the Photovoltaic Structureâˆ'Function Relation. Nano Letters, 2009, 9, 2813-2819.	4.5	163

#	Article	IF	Citations
433	High Efficiency Composite Metal Oxideâ€Polymer Electroluminescent Devices: A Morphological and Material Based Investigation. Advanced Materials, 2008, 20, 3447-3452.	11.1	143
434	A new ion-coordinating ruthenium sensitizer for mesoscopic dye-sensitized solar cells. Inorganica Chimica Acta, 2008, 361, 699-706.	1.2	56
435	A simple low temperature synthesis route for ZnOâ€“MgO coreâ€“shell nanowires. Nanotechnology, 2008, 19, 465603.	1.3	111
436	Charge collection and pore filling in solid-state dye-sensitized solar cells. Nanotechnology, 2008, 19, 424003.	1.3	238
437	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
438	High Extinction Coefficient â€œAntennaâ€•Dye in Solid-State Dye-Sensitized Solar Cells: A Photophysical and Electronic Study. Journal of Physical Chemistry C, 2008, 112, 7562-7566.	1.5	52
439	Electron Transport and Recombination in Dye-Sensitized Mesoporous TiO2 Probed by Photoinduced Charge-Conductivity Modulation Spectroscopy with Monte Carlo Modeling. Journal of the American Chemical Society, 2008, 130, 12912-12920.	6.6	55
440	Light-Enhanced Charge Mobility in a Molecular Hole Transporter. Physical Review Letters, 2007, 98, .	2.9	32
441	Efficiency Enhancements in Solid-State Hybrid Solar Cells via Reduced Charge Recombination and Increased Light Capture. Nano Letters, 2007, 7, 3372-3376.	4.5	363
442	Efficient Sensitization of Nanocrystalline TiO2 Films by a Near-IR-Absorbing Unsymmetrical Zinc Phthalocyanine. Angewandte Chemie - International Edition, 2007, 46, 373-376.	7.2	334
443	Electron and Hole Transport through Mesoporous TiO₂ Infiltrated with Spiroâ€MeOTAD. Advanced Materials, 2007, 19, 3643-3647.	11.1	174
444	Advances in Liquidâ€Electrolyte and Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Materials, 2007, 19, 3187-3200.	11.1	564
445	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. Physical Review B, 2006, 74, .	1.1	166
446	Enhancement of Charge-Transport Characteristics in Polymeric Films Using Polymer Brushes. Nano Letters, 2006, 6, 573-578.	4.5	92
447	Ion Coordinating Sensitizer for High Efficiency Mesoscopic Dye-Sensitized Solar Cells:â€‰ Influence of Lithium Ions on the Photovoltaic Performance of Liquid and Solid-State Cells. Nano Letters, 2006, 6, 769-773.	4.5	161
448	Dye-Sensitized Solar Cells Incorporating a â€œLiquidâ€•Hole-Transporting Material. Nano Letters, 2006, 6, 2000-2003.	4.5	89
449	The Role of a â€œSchottky Barrierâ€•at an Electron-Collection Electrode in Solid-State Dye-Sensitized Solar Cells. Advanced Materials, 2006, 18, 1910-1914.	11.1	98
450	Enhanced charge mobility in a molecular hole transporter via addition of redox inactive ionic dopant: Implication to dye-sensitized solar cells. Applied Physics Letters, 2006, 89, 262114.	1.5	416

#	Article	IF	Citations
451	Morphological and electronic consequences of modifications to the polymer anode â€˜PEDOT:PSSâ€™. Polymer, 2005, 46, 2573-2578.	1.8	135
452	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. Angewandte Chemie - International Edition, 2005, 44, 6413-6417.	7.2	76
453	Vertically segregated hybrid blends for photovoltaic devices with improved efficiency. Journal of Applied Physics, 2005, 97, 014914.	1.1	251
454	Self-Organization of Nanocrystals in Polymer Brushes. Application in Heterojunction Photovoltaic Diodes. Nano Letters, 2005, 5, 1653-1657.	4.5	146
455	Charge transport and efficiency in photovoltaic devices based on polyfluorene blends. , 2004, 5520, 26.		0
456	Morphological dependence of charge generation and transport in blended polyfluorene photovoltaic devices. Thin Solid Films, 2004, 451-452, 567-571.	0.8	37
457	The Origin of Collected Charge and Open-Circuit Voltage in Blended Polyfluorene Photovoltaic Devices. Advanced Materials, 2004, 16, 1640-1645.	11.1	124
458	Photovoltaic devices fabricated from an aqueous dispersion of polyfluorene nanoparticles using an electroplating method. Synthetic Metals, 2004, 147, 105-109.	2.1	11
459	Charge Generation Kinetics and Transport Mechanisms in Blended Polyfluorene Photovoltaic Devices. Nano Letters, 2002, 2, 1353-1357.	4.5	214
460	Controlling and Understanding the Effects of Crystal Size in Vapor Deposited Metal-Halide Perovskite Solar Cells. , 0, , .		0
461	A Dimethylammonium-Induced Intermediate Phase Approach Towards Stable Formamidinium-Caesium-based Perovskite Solar Cells. , 0, , .		0
462	The impact of phase segregation in mixed halide perovskites: a matter of charge recombination rather than transport. , 0, , .		0
463	Understanding the crystallographic and microstructural properties of hybrid perovskite thin films through electron microscopy. , 0, , .		0
464	Rapid Sequestration of Perovskite Solar Cell-derived Lead in Soil. , 0, , .		0
465	Self-assembled 2D-3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites for stable and efficient solar cells. , 0, , .		7
466	Effective Lateral Mobility and Diffusion Length Determined by Refractive Index Change of Perovskite at the Sub-Bandgap : Photoinduced Reflection Spectroscopy. , 0, , .		0
467	Crystallization kinetics and morphology control of formamidinium-cesium mixed-cation lead mixed-halide perovskite via tunability of the colloidal precursor solution. , 0, , .		0
468	The Importance of Interface Morphology for Hysteresis-Free Perovskite Solar Cells. , 0, , .		0

#	Article	IF	Citations
469	Improving efficiency and stability in single and multi-junction perovskite solar cells. , 0, , .		0
470	Band Tail States in FAPbI3: Characterization and Simulation. , 0, , .		0
471	Vapour deposited lead free double perovskite for photovoltaic applications. , 0, , .		0
472	Vacuum-deposited Cs2AgBiBr6. Photovoltaic devices and fundamental characterization.. , 0, , .		0
473	Impurities and their influence on the co-evaporation of methylammonium perovskite thin-film solar cells. , 0, , .		0
474	Reliable Atomic-Resolution Observations of the Nanoscopic Properties of Hybrid Perovskite Thin Films. , 0, , .		0
475	Perovskite Solar Cells: Improving Device Efficiency and Stability, and Understanding Optoelectronic Processes. , 0, , .		0
476	Solution-Processed All-Perovskite Multi-Junction Solar Cells. , 0, , .		0
477	Perovskite solar cells: materials, devices and industrialization. , 0, , .		0
478	Charge-Carrier Cooling and Polarization Memory Loss in Formamidinium Tin Triiodide. , 0, , .		0
479	Band engineering of nickel oxide interfaces and connection between absolute valence energy alignment and surface dipoles in halide perovskite heterostructures. , 0, , .		0
480	Mechanism of Electronic Coupling in Hybrid Transition Metal Dichalcogenide-2D Perovskite Heterostructures. , 0, , .		0
481	Improving n-i-p Perovskite Solar Cells Stability through Transport Layers. , 0, , .		0
482	Dynamics of Ionic Additive Passivation in Perovskite Solar Cells. , 0, , .		0