Henry J Snaith

List of Publications by Year
in descending order

482 papers	142,188 citations	179 156 h-index	87 371 g-index
498 all docs	498 docs citations	498 times ranked	49547 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

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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-<i>p</i>-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€“<i>x</i>}Cl<i>_x</i> 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 CuIâ€“AgIâ€“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

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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	<i>In situ</i> 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 CuIâ€“AgIâ€“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

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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

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73	CsIâ€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€"<i>x</i>}Cs_{<i>x</i>}Sn_{1â€"<i>y</i>}Pb_{<i>y</i>}I₃ Perovskites for Photovoltaics. ACS Energy Letters, 2019, 4, 2748-2756.	8.8	43

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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

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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	<i>In situ</i> 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

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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/cm². , 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 CsPbI₃ 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

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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

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