

Henry J Snaith

List of Publications by Year in descending order

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482
papers

142,188
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docs citations

498
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Hybrid Solar Cells Based on Meso-Superstructured Organometal Halide Perovskites. <i>Science</i> , 2012, 338, 643-647.	12.6	9,249
2	Electron-Hole Diffusion Lengths Exceeding 1 Micrometer in an Organometal Trihalide Perovskite Absorber. <i>Science</i> , 2013, 342, 341-344.	12.6	8,703
3	Efficient planar heterojunction perovskite solar cells by vapour deposition. <i>Nature</i> , 2013, 501, 395-398.	27.8	7,055
4	The emergence of perovskite solar cells. <i>Nature Photonics</i> , 2014, 8, 506-514.	31.4	5,727
5	Bright light-emitting diodes based on organometal halide perovskite. <i>Nature Nanotechnology</i> , 2014, 9, 687-692.	31.5	3,627
6	Formamidinium lead trihalide: a broadly tunable perovskite for efficient planar heterojunction solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 982.	30.8	3,352
7	High Charge Carrier Mobilities and Lifetimes in Organolead Trihalide Perovskites. <i>Advanced Materials</i> , 2014, 26, 1584-1589.	21.0	2,785
8	Metal-halide perovskites for photovoltaic and light-emitting devices. <i>Nature Nanotechnology</i> , 2015, 10, 391-402.	31.5	2,604
9	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. <i>Science</i> , 2016, 351, 151-155.	12.6	2,514
10	Perovskites: The Emergence of a New Era for Low-Cost, High-Efficiency Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3623-3630.	4.6	2,483
11	Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1511-1515.	4.6	2,190
12	Lead-free organica€inorganic tin halide perovskites for photovoltaic applications. <i>Energy and Environmental Science</i> , 2014, 7, 3061-3068.	30.8	2,086
13	Impact of microstructure on local carrier lifetime in perovskite solar cells. <i>Science</i> , 2015, 348, 683-686.	12.6	1,833
14	Morphological Control for High Performance, Solutionâ€Processed Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 151-157.	14.9	1,782
15	Direct measurement of the exciton binding energy and effective masses for charge carriers in organica€inorganic tri-halide perovskites. <i>Nature Physics</i> , 2015, 11, 582-587.	16.7	1,651
16	Overcoming ultraviolet light instability of sensitized TiO2 with meso-superstructured organometal tri-halide perovskite solar cells. <i>Nature Communications</i> , 2013, 4, 2885.	12.8	1,592
17	Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates. <i>Nature Communications</i> , 2013, 4, 2761.	12.8	1,525
18	Low-temperature processed meso-superstructured to thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1739.	30.8	1,509

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19	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1421-1426.	4.6	1,490
20	Excitons versus free charges in organo-lead tri-halide perovskites. <i>Nature Communications</i> , 2014, 5, 3586.	12.8	1,443
21	Enhanced Photoluminescence and Solar Cell Performance via Lewis Base Passivation of Organic-Inorganic Lead Halide Perovskites. <i>ACS Nano</i> , 2014, 8, 9815-9821.	14.6	1,439
22	Inorganic caesium lead iodide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19688-19695.	10.3	1,419
23	Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502458.	19.5	1,265
24	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018, 360, 1442-1446.	12.6	1,221
25	23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. <i>Nature Energy</i> , 2017, 2, .	39.5	1,204
26	The renaissance of dye-sensitized solar cells. <i>Nature Photonics</i> , 2012, 6, 162-169.	31.4	1,197
27	Efficient ambient-air-stable solar cells with 2D-3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. <i>Nature Energy</i> , 2017, 2, .	39.5	1,169
28	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , 2016, 354, 861-865.	12.6	1,107
29	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019, 571, 245-250.	27.8	1,103
30	Carbon Nanotube/Polymer Composites as a Highly Stable Hole Collection Layer in Perovskite Solar Cells. <i>Nano Letters</i> , 2014, 14, 5561-5568.	9.1	1,073
31	Stability of Metal Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500963.	19.5	1,045
32	Recombination Kinetics in Organic-Inorganic Perovskites: Excitons, Free Charge, and Subgap States. <i>Physical Review Applied</i> , 2014, 2, .	3.8	1,005
33	Low-Temperature Processed Electron Collection Layers of Graphene/TiO ₂ Nanocomposites in Thin Film Perovskite Solar Cells. <i>Nano Letters</i> , 2014, 14, 724-730.	9.1	999
34	Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , 2016, 7, .	12.8	919
35	Toward Lead-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 1233-1240.	17.4	848
36	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020, 5, 35-49.	39.5	797

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37	Steric engineering of metal-halide perovskites with tunable optical band gaps. <i>Nature Communications</i> , 2014, 5, 5757.	12.8	787
38	Temperature-Dependent Charge-Carrier Dynamics in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 6218-6227.	14.9	785
39	Ultrasoft organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 6142.	12.8	784
40	Photo-induced halide redistribution in organic-inorganic perovskite films. <i>Nature Communications</i> , 2016, 7, 11683.	12.8	778
41	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1254-1259.	4.6	761
42	$\text{Cs}_2\text{InAgCl}_6$: A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 772-778.	4.6	752
43	Mesoporous TiO_2 single crystals delivering enhanced mobility and optoelectronic device performance. <i>Nature</i> , 2013, 495, 215-219.	27.8	751
44	Photovoltaic solar cell technologies: analysing the state of the art. <i>Nature Reviews Materials</i> , 2019, 4, 269-285.	48.7	727
45	Metal halide perovskites for energy applications. <i>Nature Energy</i> , 2016, 1, .	39.5	726
46	High-efficiency perovskite-polymer bulk heterostructure light-emitting diodes. <i>Nature Photonics</i> , 2018, 12, 783-789.	31.4	715
47	Electron Mobility and Injection Dynamics in Mesoporous ZnO , SnO_2 , and TiO_2 Films Used in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2011, 5, 5158-5166.	14.6	698
48	Supramolecular Halogen Bond Passivation of Organic-Inorganic Halide Perovskite Solar Cells. <i>Nano Letters</i> , 2014, 14, 3247-3254.	9.1	651
49	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 10030.	12.8	620
50	Heterojunction Modification for Highly Efficient Organic-Inorganic Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 12701-12709.	14.6	614
51	Determination of the exciton binding energy and effective masses for methylammonium and formamidinium lead tri-halide perovskite semiconductors. <i>Energy and Environmental Science</i> , 2016, 9, 962-970.	30.8	603
52	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. <i>Nano Letters</i> , 2013, 13, 3124-3128.	9.1	602
53	Photon recycling in lead iodide perovskite solar cells. <i>Science</i> , 2016, 351, 1430-1433.	12.6	600
54	Present status and future prospects of perovskite photovoltaics. <i>Nature Materials</i> , 2018, 17, 372-376.	27.5	590

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55	Modeling Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3808-3814.	4.6	581
56	Advances in Liquidâ€Electrolyte and Solidâ€State Dyeâ€Sensitized Solar Cells. <i>Advanced Materials</i> , 2007, 19, 3187-3200.	21.0	564
57	Sub-150 Â°C processed meso-superstructured perovskite solar cells with enhanced efficiency. <i>Energy and Environmental Science</i> , 2014, 7, 1142-1147.	30.8	560
58	Lithium salts as â€redox activeâ€p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2572.	2.8	557
59	The Raman Spectrum of the CH ₃ NH ₃ PbI ₃ Hybrid Perovskite: Interplay of Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 279-284.	4.6	555
60	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	12.6	554
61	Plasmonic Dye-Sensitized Solar Cells Using Coreâ€Shell Metalâ€Insulator Nanoparticles. <i>Nano Letters</i> , 2011, 11, 438-445.	9.1	550
62	Enhanced UV-light stability of planar heterojunction perovskite solar cells with caesium bromide interface modification. <i>Energy and Environmental Science</i> , 2016, 9, 490-498.	30.8	535
63	Band Gaps of the Lead-Free Halide Double Perovskites Cs ₂ BiAgCl ₆ and Cs ₂ BiAgBr ₆ from Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2579-2585.	4.6	529
64	Enhancement of Perovskite-Based Solar Cells Employing Coreâ€Shell Metal Nanoparticles. <i>Nano Letters</i> , 2013, 13, 4505-4510.	9.1	505
65	SnO ₂ -Based Dye-Sensitized Hybrid Solar Cells Exhibiting Near Unity Absorbed Photon-to-Electron Conversion Efficiency. <i>Nano Letters</i> , 2010, 10, 1259-1265.	9.1	495
66	Photovoltaic mixed-cation lead mixed-halide perovskites: links between crystallinity, photo-stability and electronic properties. <i>Energy and Environmental Science</i> , 2017, 10, 361-369.	30.8	482
67	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. <i>Nature</i> , 2021, 591, 72-77.	27.8	471
68	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020, 369, 96-102.	12.6	461
69	Estimating the Maximum Attainable Efficiency in Dyeâ€Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 13-19.	14.9	458
70	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI ₃ by Theory and Experiment. <i>ACS Energy Letters</i> , 2018, 3, 1787-1794.	17.4	455
71	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015, 9, 9380-9393.	14.6	451
72	A Bicontinuous Double Gyroid Hybrid Solar Cell. <i>Nano Letters</i> , 2009, 9, 2807-2812.	9.1	446

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73	Charge-Carrier Dynamics in 2D Hybrid Metal-Halide Perovskites. Nano Letters, 2016, 16, 7001-7007.	9.1	428
74	Charge-carrier dynamics in vapour-deposited films of the organolead halide perovskite $\text{CH}_3\text{NH}_3\text{Pb}_{1-x}\text{Cl}_x$. Energy and Environmental Science, 2014, 7, 2269-2275.	30.8	427
75	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.	30.8	423
76	Optical properties and limiting photocurrent of thin-film perovskite solar cells. Energy and Environmental Science, 2015, 8, 602-609.	30.8	417
77	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.	3.3	416
78	Neutral Color Semitransparent Microstructured Perovskite Solar Cells. ACS Nano, 2014, 8, 591-598.	14.6	412
79	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.	30.8	409
80	Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.	30.8	372
81	Electronic Properties of Meso-Superstructured and Planar Organometal Halide Perovskite Films: Charge Trapping, Photodoping, and Carrier Mobility. ACS Nano, 2014, 8, 7147-7155.	14.6	370
82	Charge selective contacts, mobile ions and anomalous hysteresis in organic-inorganic perovskite solar cells. Materials Horizons, 2015, 2, 315-322.	12.2	366
83	Efficiency Enhancements in Solid-State Hybrid Solar Cells via Reduced Charge Recombination and Increased Light Capture. Nano Letters, 2007, 7, 3372-3376.	9.1	363
84	Perovskite Crystals for Tunable White Light Emission. Chemistry of Materials, 2015, 27, 8066-8075.	6.7	362
85	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.	3.1	361
86	Metal halide perovskite tandem and multiple-junction photovoltaics. Nature Reviews Chemistry, 2017, 1, .	30.2	344
87	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. Advanced Materials, 2015, 27, 7938-7944.	21.0	343
88	Improving the Long-Term Stability of Perovskite Solar Cells with a Porous Al_2O_3 Buffer Layer. Journal of Physical Chemistry Letters, 2015, 6, 432-437.	4.6	343
89	Efficient Sensitization of Nanocrystalline TiO_2 Films by a Near-IR-Absorbing Unsymmetrical Zinc Phthalocyanine. Angewandte Chemie - International Edition, 2007, 46, 373-376.	13.8	334
90	Performance and Stability Enhancement of Dye-Sensitized and Perovskite Solar Cells by Al Doping of TiO_2 . Advanced Functional Materials, 2014, 24, 6046-6055.	14.9	330

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91	Crystallization Kinetics of Organic-Inorganic Trihalide Perovskites and the Role of the Lead Anion in Crystal Growth. <i>Journal of the American Chemical Society</i> , 2015, 137, 2350-2358.	13.7	326
92	Solution Deposition-Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400355.	19.5	325
93	C ₆₀ as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2399-2405.	4.6	324
94	Homogeneous Emission Line Broadening in the Organo Lead Halide Perovskite CH ₃ NH ₃ Pb ₃ Cl _x . <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1300-1306.	4.6	319
95	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. <i>Energy and Environmental Science</i> , 2017, 10, 145-152.	30.8	319
96	Light-induced annihilation of Frenkel defects in organo-lead halide perovskites. <i>Energy and Environmental Science</i> , 2016, 9, 3180-3187.	30.8	302
97	Optical phonons in methylammonium lead halide perovskites and implications for charge transport. <i>Materials Horizons</i> , 2016, 3, 613-620.	12.2	299
98	Highly Efficient Perovskite Solar Cells with Tunable Structural Color. <i>Nano Letters</i> , 2015, 15, 1698-1702.	9.1	289
99	Radiative efficiency of lead iodide based perovskite solar cells. <i>Scientific Reports</i> , 2014, 4, 6071.	3.3	283
100	Revealing the origin of voltage loss in mixed-halide perovskite solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 258-267.	30.8	283
101	The Potential of Multijunction Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 2506-2513.	17.4	272
102	Thermally Induced Structural Evolution and Performance of Mesoporous Block Copolymer-Directed Alumina Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 4730-4739.	14.6	269
103	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. <i>Joule</i> , 2017, 1, 155-167.	24.0	264
104	Crystallization Kinetics and Morphology Control of Formamidinium-Cesium Mixed-Halide Perovskite via Tunability of the Colloidal Precursor Solution. <i>Advanced Materials</i> , 2017, 29, 1607039.	21.0	263
105	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016, 28, 923-929.	21.0	257
106	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4280-4284.	13.8	257
107	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 2472-2476.	17.4	257
108	Revealing Charge Carrier Mobility and Defect Densities in Metal Halide Perovskites via Space-Charge-Limited Current Measurements. <i>ACS Energy Letters</i> , 2021, 6, 1087-1094.	17.4	254

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109	Pinhole-free perovskite films for efficient solar modules. <i>Energy and Environmental Science</i> , 2016, 9, 484-489.	30.8	252
110	Vertically segregated hybrid blends for photovoltaic devices with improved efficiency. <i>Journal of Applied Physics</i> , 2005, 97, 014914.	2.5	251
111	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800185.	19.5	247
112	Formation of Thin Films of Organic-Inorganic Perovskites for High-Efficiency Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3240-3248.	13.8	245
113	Efficient Single-Layer Polymer Light-Emitting Diodes. <i>Advanced Materials</i> , 2010, 22, 3194-3198.	21.0	243
114	Infrared Light Management Using a Nanocrystalline Silicon Oxide Interlayer in Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with Efficiency above 25%. <i>Advanced Energy Materials</i> , 2019, 9, 1803241.	19.5	239
115	Charge collection and pore filling in solid-state dye-sensitized solar cells. <i>Nanotechnology</i> , 2008, 19, 424003.	2.6	238
116	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3836-3842.	4.6	238
117	Efficient and Air-Stable Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells with n-Doped Organic Electron Extraction Layers. <i>Advanced Materials</i> , 2017, 29, 1604186.	21.0	237
118	Tailoring metal halide perovskites through metal substitution: influence on photovoltaic and material properties. <i>Energy and Environmental Science</i> , 2017, 10, 236-246.	30.8	230
119	Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organic-Inorganic Lead Trihalide Perovskites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17171-17177.	3.1	225
120	Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , 2015, 5, 1500962.	19.5	225
121	The Importance of Perovskite Pore Filling in Organometal Mixed Halide Sensitized TiO ₂ -Based Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1096-1102.	4.6	221
122	Charge Density Dependent Mobility of Organic Hole-Transporters and Mesoporous TiO ₂ Determined by Transient Mobility Spectroscopy: Implications to Dye-Sensitized and Organic Solar Cells. <i>Advanced Materials</i> , 2013, 25, 3227-3233.	21.0	217
123	Impact of the Halide Cage on the Electronic Properties of Fully Inorganic Cesium Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1621-1627.	17.4	215
124	Charge Generation Kinetics and Transport Mechanisms in Blended Polyfluorene Photovoltaic Devices. <i>Nano Letters</i> , 2002, 2, 1353-1357.	9.1	214
125	A one-step low temperature processing route for organolead halide perovskite solar cells. <i>Chemical Communications</i> , 2013, 49, 7893.	4.1	212
126	Electronic Traps and Phase Segregation in Lead Mixed-Halide Perovskite. <i>ACS Energy Letters</i> , 2019, 4, 75-84.	17.4	212

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127	Oxygen Degradation in Mesoporous Al ₂ O ₃ /CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells: Kinetics and Mechanisms. <i>Advanced Energy Materials</i> , 2016, 6, 1600014.	19.5	211
128	Toward Understanding Space-Charge Limited Current Measurements on Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 376-384.	17.4	211
129	Consolidation of the optoelectronic properties of CH ₃ NH ₃ PbBr ₃ perovskite single crystals. <i>Nature Communications</i> , 2017, 8, 590.	12.8	207
130	Microseconds, milliseconds and seconds: deconvoluting the dynamic behaviour of planar perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5959-5970.	2.8	200
131	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5038-5046.	14.9	198
132	Well-Defined Nanostructured, Single-Crystalline TiO ₂ Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>ACS Nano</i> , 2016, 10, 6029-6036.	14.6	196
133	The Function of a TiO ₂ Compact Layer in Dye-Sensitized Solar Cells Incorporating "Planar" Organic Dyes. <i>Nano Letters</i> , 2008, 8, 977-981.	9.1	195
134	Charge carrier recombination channels in the low-temperature phase of organic-inorganic lead halide perovskite thin films. <i>APL Materials</i> , 2014, 2, .	5.1	194
135	Predicting and optimising the energy yield of perovskite-on-silicon tandem solar cells under real world conditions. <i>Energy and Environmental Science</i> , 2017, 10, 1983-1993.	30.8	192
136	Mechanism for rapid growth of organic-inorganic halide perovskite crystals. <i>Nature Communications</i> , 2016, 7, 13303.	12.8	191
137	Non-ferroelectric nature of the conductance hysteresis in CH ₃ NH ₃ PbI ₃ perovskite-based photovoltaic devices. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	189
138	Solution-Processed Cesium Hexabromopalladate(IV), Cs ₂ PdBr ₆ , for Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 6030-6033.	13.7	189
139	How should you measure your excitonic solar cells?. <i>Energy and Environmental Science</i> , 2012, 5, 6513.	30.8	187
140	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5981-5989.	8.0	184
141	Role of Microstructure in Oxygen Induced Photodegradation of Methylammonium Lead Triiodide Perovskite Films. <i>Advanced Energy Materials</i> , 2017, 7, 1700977.	19.5	183
142	Atomic-scale microstructure of metal halide perovskite. <i>Science</i> , 2020, 370, .	12.6	183
143	Impact of Bi ³⁺ Heterovalent Doping in Organic-Inorganic Metal Halide Perovskite Crystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 574-577.	13.7	181
144	High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , 2018, 3, 855-861.	39.5	180

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145	Solution-Processed All-Perovskite Multi-junction Solar Cells. <i>Joule</i> , 2019, 3, 387-401.	24.0	177
146	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. <i>Advanced Functional Materials</i> , 2016, 26, 3508-3514.	14.9	176
147	Electron and Hole Transport through Mesoporous TiO ₂ Infiltrated with Spiro-MeOTAD. <i>Advanced Materials</i> , 2007, 19, 3643-3647.	21.0	174
148	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organic-Inorganic Perovskite Solar Cells. <i>ACS Nano</i> , 2015, 9, 2311-2320.	14.6	173
149	Efficient, Semitransparent Neutral-Colored Solar Cells Based on Microstructured Formamidinium Lead Trihalide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 129-138.	4.6	173
150	A Transparent Conductive Adhesive Laminate Electrode for High-Efficiency Organic-Inorganic Lead Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2014, 26, 7499-7504.	21.0	169
151	Protic Ionic Liquids as p-Dopant for Organic Hole Transporting Materials and Their Application in High Efficiency Hybrid Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 13538-13548.	13.7	167
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