Hin-Lap Yip

List of Publications by Year
in descending order

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283 papers	36,424 citations	2544 96 h-index	3407 183 g-index
284 all docs	284 docs citations	284 times ranked	20982 citing authors

#	Article	IF	Citations
1	Development and Challenges of Metal Halide Perovskite Solar Modules. Solar Rrl, 2022, 6, 2100545.	5.8	34
2	Emissive Chargeâ€Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Nonâ€Radiative Recombination and Highâ€Performance Photodetectors. Advanced Materials, 2022, 34, e2104654.	21.0	13
3	Spacer Engineering of Diammoniumâ€Based 2D Perovskites toward Efficient and Stable 2D/3D Heterostructure Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, 2102973.	19.5	63
4	Stepwise on-surface synthesis of thiophene-based polymeric ribbons by coupling reactions and the carbonâ€“fluorine bond cleavage. Physical Chemistry Chemical Physics, 2022, 24, 697-703.	2.8	5
5	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	24.0	66
6	Perovskite/Organic Hybrid White Electroluminescent Devices with Stable Spectrum and Extended Operating Lifetime. ACS Energy Letters, 2022, 7, 523-532.	17.4	14
7	Homogeneous Grain Boundary Passivation in Wideâ€Bandgap Perovskite Films Enables Fabrication of Monolithic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. Advanced Functional Materials, 2022, 32, .	14.9	42
8	Enabling high-performance, centimeter-scale organic solar cells through three-dimensional charge transport. Cell Reports Physical Science, 2022, , 100761.	5.6	4
9	Enhancing the Performance of Quasi-2D Perovskite Light-Emitting Diodes Using Natural Cyclic Molecules with Distinct Phase Regulation Behaviors. ACS Applied Materials & Interfaces, 2022, 14, 9587-9596.	8.0	6
10	Subtle side chain modification of triphenylamineâ€based polymer holeâ€transport layer materials produces efficient and stable inverted perovskite solar cells. , 2022, 1, 281-293.		34
11	High-performance see-through power windows. Energy and Environmental Science, 2022, 15, 2629-2637.	30.8	51
12	Unravelling Alkaliâ€Metalâ€Assisted Domain Distribution of Quasiâ€2D Perovskites for Cascade Energy Transfer toward Efficient Blue Lightâ€Emitting Diodes. Advanced Science, 2022, 9, e2200393.	11.2	26
13	Identifying structureâ€“absorption relationships and predicting absorption strength of non-fullerene acceptors for organic photovoltaics. Energy and Environmental Science, 2022, 15, 2958-2973.	30.8	22
14	Perovskiteâ€Gallium Nitride Tandem Lightâ€Emitting Diodes with Improved Luminance and Color Tunability. Advanced Science, 2022, 9, .	11.2	15
15	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. ACS Energy Letters, 2022, 7, 2196-2202.	17.4	34
16	Elucidating the Role of Antisolvents on the Surface Chemistry and Optoelectronic Properties of CsPbBr_xI_{3-x} Perovskite Nanocrystals. Journal of the American Chemical Society, 2022, 144, 12102-12115.	13.7	31
17	Suppressing Ion Migration across Perovskite Grain Boundaries by Polymer Additives. Advanced Functional Materials, 2021, 31, 2006802.	14.9	66
18	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	19.5	93

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19	Utilization of Trapped Optical Modes for White Perovskite Light-Emitting Diodes with Efficiency over 12%. Joule, 2021, 5, 456-466.	24.0	81
20	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. Materials Chemistry Frontiers, 2021, 5, 7199-7207.	5.9	3
21	Highâ€Performance Semiâ€Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. Advanced Energy Materials, 2021, 11, 2003408.	19.5	54
22	D-A-Ï€-A-D-type Dopant-free Hole Transport Material for Low-Cost, Efficient, and Stable Perovskite Solar Cells. Joule, 2021, 5, 249-269.	24.0	203
23	Synthesis and photovoltaic performance of a non-fullerene acceptor comprising siloxane-terminated alkoxyl side chain. Organic Electronics, 2021, 91, 106087.	2.6	13
24	Materials, photophysics and device engineering of perovskite light-emitting diodes. Reports on Progress in Physics, 2021, 84, 046401.	20.1	52
25	Metalâ€Halide Perovskite Crystallization Kinetics: A Review of Experimental and Theoretical Studies. Advanced Energy Materials, 2021, 11, 2100784.	19.5	35
26	Architecturing 1Dâ€2Dâ€3D Multidimensional Coupled CsPbI₂Br Perovskites toward Highly Effective and Stable Solar Cells. Small, 2021, 17, e2100888.	10.0	17
27	Tandem Organic Solar Cells with 18.7% Efficiency Enabled by Suppressing the Charge Recombination in Front Subâ€Cell. Advanced Functional Materials, 2021, 31, 2103283.	14.9	84
28	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. Advanced Materials, 2021, 33, e2008158.	21.0	90
29	Molecularly Engineered Interfaces in Metal Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 4882-4901.	4.6	21
30	Highâ€Performance Upscaled Indium Tin Oxideâ€“Free Organic Solar Cells with Visual Esthetics and Flexibility. Solar Rrl, 2021, 5, 2100339.	5.8	12
31	Colorâ€Stable Deepâ€Blue Perovskite Lightâ€Emitting Diodes Based on Organotrichlorosilane Postâ€Treatment. Advanced Functional Materials, 2021, 31, 2103219.	14.9	34
32	Flexibility of Room-Temperature-Synthesized Amorphous CdO-In₂O₃ Alloy Films and Their Application as Transparent Conductors in Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 43795-43805.	8.0	7
33	Quantification of Temperatureâ€Dependent Charge Separation and Recombination Dynamics in Nonâ€Fullerene Organic Photovoltaics. Advanced Functional Materials, 2021, 31, 2107157.	14.9	13
34	Inkjet-Printed Full-Color Matrix Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 41773-41781.	8.0	35
35	Semitransparent organic solar cells based on all-low-bandgap donor and acceptor materials and their performance potential. Materials Today Energy, 2021, 21, 100807.	4.7	23
36	Perovskite Lightâ€Emitting Diodes with EQE Exceeding 28% through a Synergetic Dualâ€Additive Strategy for Defect Passivation and Nanostructure Regulation. Advanced Materials, 2021, 33, e2103268.	21.0	320

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37	Emission Wavelength Tuning via Competing Lattice Expansion and Octahedral Tilting for Efficient Red Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2021, 31, 2106691.	14.9	23
38	Interface Engineering for Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. Energy Technology, 2021, 9, 2100562.	3.8	18
39	Monolithic perovskite/organic tandem solar cells: Developments, prospects, and challenges. Nano Select, 2021, 2, 1266-1276.	3.7	18
40	Advances in Dion-Jacobson phase two-dimensional metal halide perovskite solar cells. Nanophotonics, 2021, 10, 2069-2102.	6.0	38
41	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	19.5	66
42	The evolution and future of metal halide perovskite-based optoelectronic devices. Matter, 2021, 4, 3814-3834.	10.0	35
43	Interface-enhanced organic solar cells with extrapolated T80 lifetimes of over 20â€¯years. Science Bulletin, 2020, 65, 208-216.	9.0	181
44	Multifunctional semitransparent organic solar cells with excellent infrared photon rejection. Chinese Chemical Letters, 2020, 31, 1608-1611.	9.0	31
45	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. Nature Communications, 2020, 11, 177.	12.8	360
46	Self-Stimulated Dissociation in Non-Fullerene Organic Bulk-Heterojunction Solar Cells. Joule, 2020, 4, 2443-2457.	24.0	35
47	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. ACS Applied Materials & Interfaces, 2020, 12, 55064-55071.	8.0	15
48	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. Nature Communications, 2020, 11, 3943.	12.8	458
49	Efficient monolithic perovskite/organic tandem solar cells and their efficiency potential. Nano Energy, 2020, 78, 105238.	16.0	59
50	Semitransparent Organic Solar Cells with Vivid Colors. ACS Energy Letters, 2020, 5, 3115-3123.	17.4	93
51	Electrocatalytic reduction of oxygen at platinum nanoparticles dispersed on electrochemically reduced graphene oxide/PEDOT:PSS composites. RSC Advances, 2020, 10, 30519-30528.	3.6	7
52	Toward Efficient Tandem Organic Solar Cells: From Materials to Device Engineering. ACS Applied Materials & Interfaces, 2020, 12, 39937-39947.	8.0	20
53	Conformation modification of terthiophene during the on-surface synthesis of pure polythiophene. Nanoscale, 2020, 12, 18096-18105.	5.6	6
54	Effects of ZnI2 doping on the performance of methylammonium-free perovskite solar cells. Journal of Applied Physics, 2020, 128, .	2.5	16

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55	Long-lived and disorder-free charge transfer states enable endothermic charge separation in efficient non-fullerene organic solar cells. Nature Communications, 2020, 11, 5617.	12.8	73
56	Inkjet Printing Matrix Perovskite Quantum Dot Lightâ€Emitting Devices. Advanced Materials Technologies, 2020, 5, 2000099.	5.8	49
57	Toward Efficient Triple-Junction Polymer Solar Cells through Rational Selection of Middle Cells. ACS Energy Letters, 2020, 5, 1771-1779.	17.4	17
58	Composition Engineering of Allâ€Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. Advanced Functional Materials, 2020, 30, 2001764.	14.9	69
59	Fibril Network Strategy Enables Highâ€Performance Semitransparent Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2002181.	14.9	113
60	Coâ€Interlayer Engineering toward Efficient Green Quasiâ€Twoâ€Dimensional Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910167.	14.9	52
61	Semitransparent perovskite solar cells for smart windows. Science Bulletin, 2020, 65, 980-982.	9.0	28
62	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. ACS Energy Letters, 2020, 5, 1371-1379.	17.4	126
63	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	8.2	158
64	Highâ€Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and Seeâ€Through Functions. Advanced Materials, 2020, 32, e2001621.	21.0	140
65	3,4â€Dicyanothiopheneâ€”a Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2020, 10, 1904247.	19.5	48
66	Roll-to-roll printed high voltage supercapattery in lead-contaminated aqueous electrolyte. Physical Chemistry Chemical Physics, 2020, 22, 5597-5603.	2.8	1
67	High-Performance Ternary Organic Solar Cells with Controllable Morphology via Sequential Layer-by-Layer Deposition. ACS Applied Materials & Interfaces, 2020, 12, 13077-13086.	8.0	69
68	Dopantâ€Free Organic Holeâ€Transporting Material for Efficient and Stable Inverted Allâ€Inorganic and Hybrid Perovskite Solar Cells. Advanced Materials, 2020, 32, e1908011.	21.0	195
69	FAâ€Assistant Iodide Coordination in Organicâ€“Inorganic Wideâ€Bandgap Perovskite with Mixed Halides. Small, 2020, 16, e1907226.	10.0	38
70	Inorganic Halide Perovskite Solar Cells: Progress and Challenges. Advanced Energy Materials, 2020, 10, 2000183.	19.5	231
71	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MAâ€Free Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000571.	21.0	166
72	Progress of the key materials for organic solar cells. Scientia Sinica Chimica, 2020, 50, 437-446.	0.4	8

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73	Performance optimization of tandem organic solar cells at varying incident angles based on optical analysis method. Optics Express, 2020, 28, 2381.	3.4	8
74	Blue Perovskite Light-emitting Diodes: Opportunities and Challenges. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	9
75	The distinctive phase stability and defect physics in CsPbI₂Br perovskite. Journal of Materials Chemistry A, 2019, 7, 20201-20207.	10.3	64
76	CsPb(I Br1â^')3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
77	High-Throughput Optical Screening for Efficient Semitransparent Organic Solar Cells. Joule, 2019, 3, 2241-2254.	24.0	141
78	Highly Transparent Organic Solar Cells with Allâ€Nearâ€Infrared Photoactive Materials. Small Methods, 2019, 3, 1900424.	8.6	55
79	The Energyâ€Alignment Engineering in Polytriphenylaminesâ€Based Hole Transport Polymers Realizes Low Energy Loss and High Efficiency for Allâ€Inorganic Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900265.	5.8	16
80	Synergistic Effect of Pseudo-Halide Thiocyanate Anion and Cesium Cation on Realizing High-Performance Pinhole-Free MA-Based Wide-Band Gap Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 25909-25916.	8.0	23
81	Dopantâ€Free Squaraineâ€Based Polymeric Holeâ€Transporting Materials with Comprehensive Passivation Effects for Efficient Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 17888-17894.	2.0	18
82	Dopantâ€Free Squaraineâ€Based Polymeric Holeâ€Transporting Materials with Comprehensive Passivation Effects for Efficient Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 17724-17730.	13.8	118
83	A distorted lactam unit with intramolecular hydrogen bonds as the electron donor of polymer solar cells. Journal of Materials Chemistry C, 2019, 7, 12290-12296.	5.5	4
84	Engineering of perovskite light-emitting diodes based on quasi-2D perovskites formed by diamine cations. Organic Electronics, 2019, 75, 105400.	2.6	27
85	High-performance and stable CsPbBr₃ light-emitting diodes based on polymer additive treatment. RSC Advances, 2019, 9, 27684-27691.	3.6	25
86	Surpassing the 10% efficiency milestone for 1-cm2 all-polymer solar cells. Nature Communications, 2019, 10, 4100.	12.8	129
87	Backbone Fluorination of Polythiophenes Improves Device Performance of Non-Fullerene Polymer Solar Cells. ACS Applied Energy Materials, 2019, 2, 7572-7583.	5.1	38
88	Highly stable enhanced near-infrared amplified spontaneous emission in solution-processed perovskite films by employing polymer and gold nanorods. Nanoscale, 2019, 11, 1959-1967.	5.6	28
89	A cascade-type electron extraction design for efficient low-bandgap perovskite solar cells based on a conventional structure with suppressed open-circuit voltage loss. Materials Chemistry Frontiers, 2019, 3, 496-504.	5.9	20
90	Porous and Intercrossed PbI₂â€“CsI Nanorod Scaffold for Inverted Planar FAâ€“Cs Mixed-Cation Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 6126-6135.	8.0	32

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91	Incorporation of rubidium cations into blue perovskite quantum dot light-emitting diodes via FABr-modified multi-cation hot-injection method. Nanoscale, 2019, 11, 1295-1303.	5.6	36
92	Reduced open-circuit voltage loss for highly efficient low-bandgap perovskite solar cells via suppression of silver diffusion. Journal of Materials Chemistry A, 2019, 7, 17324-17333.	10.3	37
93	Achieving Both Enhanced Voltage and Current through Fineâ€Tuning Molecular Backbone and Morphology Control in Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901024.	19.5	73
94	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. Nano Energy, 2019, 63, 103807.	16.0	59
95	Impact of surface dipole in NiOx on the crystallization and photovoltaic performance of organometal halide perovskite solar cells. Nano Energy, 2019, 61, 496-504.	16.0	92
96	The Role of Diammonium Cation on the Structural and Optoelectronic Properties in 3D Cesiumâ€“Formamidinium Mixedâ€Cation Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900140.	5.8	16
97	Modulation of recombination zone position for quasi-two-dimensional blue perovskite light-emitting diodes with efficiency exceeding 5%. Nature Communications, 2019, 10, 1027.	12.8	425
98	A Tandem Organic Solar Cell with PCE of 14.52% Employing Subcells with the Same Polymer Donor and Two Absorption Complementary Acceptors. Advanced Materials, 2019, 31, e1804723.	21.0	48
99	Fused Benzothiadiazole: A Building Block for nâ€Type Organic Acceptor to Achieve Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1807577.	21.0	297
100	Dual Interfacial Design for Efficient CsPbI₂Br Perovskite Solar Cells with Improved Photostability. Advanced Materials, 2019, 31, e1901152.	21.0	328
101	An Operando Study on the Photostability of Nonfullerene Organic Solar Cells. Solar Rrl, 2019, 3, 1900077.	5.8	59
102	Revealing the crystallization process and realizing uniform 1.8 eV MA-based wide-bandgap mixed-halide perovskites via solution engineering. Nano Research, 2019, 12, 1033-1039.	10.4	37
103	Enhancing the Performance of Inverted Perovskite Solar Cells via Grain Boundary Passivation with Carbon Quantum Dots. ACS Applied Materials & Interfaces, 2019, 11, 3044-3052.	8.0	147
104	Structurally Reconstructed CsPbI₂Br Perovskite for Highly Stable and Squareâ€Centimeter Allâ€Inorganic Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803572.	19.5	192
105	Optical Analysis for Semitransparent Organic Solar Cells. Solar Rrl, 2019, 3, 1800270.	5.8	62
106	Efficient organic-inorganic hybrid cathode interfacial layer enabled by polymeric dopant and its application in large-area polymer solar cells. Science China Chemistry, 2019, 62, 67-73.	8.2	21
107	Highâ€Performance Largeâ€Area Organic Solar Cells Enabled by Sequential Bilayer Processing via Nonhalogenated Solvents. Advanced Energy Materials, 2019, 9, 1802832.	19.5	152
108	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. Joule, 2019, 3, 1140-1151.	24.0	4,052

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109	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. ACS Applied Materials & Interfaces, 2019, 11, 5289-5297.	8.0	37
110	Carbonâ€“Oxygenâ€Bridged Ladderâ€Type Building Blocks for Highly Efficient Nonfullerene Acceptors. Advanced Materials, 2019, 31, e1804790.	21.0	139
111	Spectral Engineering of Semitransparent Polymer Solar Cells for Greenhouse Applications. Advanced Energy Materials, 2019, 9, 1803438.	19.5	101
112	End-chain effects of non-fullerene acceptors on polymer solar cells. Organic Electronics, 2019, 64, 1-6.	2.6	13
113	Applications of organic additives in metal halide perovskite light-emitting diodes. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 158505.	0.5	5
114	High-Throughput Optical Modeling Guided Design of Polymer Solar Cells. , 2019, , .		0
115	Efficient and Stable Perovskite Solar Cells via Dual Functionalization of Dopamine Semiquinone Radical with Improved Trap Passivation Capabilities. Advanced Functional Materials, 2018, 28, 1707444.	14.9	94
116	Recent advances in semi-transparent polymer and perovskite solar cells for power generating window applications. Energy and Environmental Science, 2018, 11, 1688-1709.	30.8	266
117	Direct observation of cation-exchange in liquid-to-solid phase transformation in FA_{1â^'x}MA_xPbI₃ based perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 9081-9088.	10.3	35
118	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. Chemical Science, 2018, 9, 2698-2704.	7.4	109
119	Highly Efficient Tandem Organic Solar Cell Enabled by Environmentally Friendly Solvent Processed Polymeric Interconnecting Layer. Advanced Energy Materials, 2018, 8, 1703180.	19.5	44
120	Air-processed mixed-cation Cs_{0.15}FA_{0.85}PbI₃ planar perovskite solar cells derived from a PbI₂â€“CsIâ€“FAI intermediate complex. Journal of Materials Chemistry A, 2018, 6, 7731-7740.	10.3	75
121	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11%. Advanced Materials, 2018, 30, e1707508.	21.0	184
122	Efficient device engineering for inverted non-fullerene organic solar cells with low energy loss. Journal of Materials Chemistry C, 2018, 6, 4457-4463.	5.5	41
123	Efficient Large Area Organic Solar Cells Processed by Bladeâ€Coating With Singleâ€Component Green Solvent. Solar Rrl, 2018, 2, 1700169.	5.8	79
124	Stable Sn/Pb-Based Perovskite Solar Cells with a Coherent 2D/3D Interface. IScience, 2018, 9, 337-346.	4.1	82
125	Polymer-Assisted In Situ Growth of All-Inorganic Perovskite Nanocrystal Film for Efficient and Stable Pure-Red Light-Emitting Devices. ACS Applied Materials & Interfaces, 2018, 10, 42564-42572.	8.0	86
126	Nearâ€Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. Advanced Materials, 2018, 30, e1803769.	21.0	116

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127	Comparison of processing windows and electronic properties between CH3NH3PbI3 perovskite fabricated by one-step and two-step solution processes. Organic Electronics, 2018, 63, 159-165.	2.6	28
128	The electronic properties of CH₃NH₃PbI₃ perovskite surfaces tuned by inverted polarities of pyridine and ethylamine. Journal of Materials Chemistry C, 2018, 6, 6733-6738.	5.5	3
129	Interface Engineering for Allâ€Inorganic CsPbI₂Br Perovskite Solar Cells with Efficiency over 14%. Advanced Materials, 2018, 30, e1802509.	21.0	336
130	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. Joule, 2018, 2, 1816-1826.	24.0	173
131	High performance low-bandgap perovskite solar cells based on a high-quality mixed Snâ€“Pb perovskite film prepared by vacuum-assisted thermal annealing. Journal of Materials Chemistry A, 2018, 6, 16347-16354.	10.3	44
132	11.2% Allâ€Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. Advanced Materials, 2018, 30, e1803166.	21.0	92
133	Overcoming Spaceâ€Charge Effect for Efficient Thickâ€Film Nonâ€Fullerene Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1801609.	19.5	62
134	Wideâ€Bandgap Perovskite Solar Cells With Large Openâ€Circuit Voltage of 1653â€‰mV Through Interfacial Engineering. Solar Rrl, 2018, 2, 1800083.	5.8	67
135	Recombination Dynamics Study on Nanostructured Perovskite Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1801370.	21.0	102
136	Organic and solution-processed tandem solar cells with 17.3% efficiency. Science, 2018, 361, 1094-1098.	12.6	2,262
137	Fully Solution-Processed Tandem White Quantum-Dot Light-Emitting Diode with an External Quantum Efficiency Exceeding 25%. ACS Nano, 2018, 12, 6040-6049.	14.6	82
138	General design of self-doped small molecules as efficient hole extraction materials for polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 3780-3785.	10.3	17
139	Interface Engineering of a Compatible PEDOT Derivative Bilayer for Highâ€Performance Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2017, 4, 1600948.	3.7	40
140	Thermally stable high performance non-fullerene polymer solar cells with low energy loss by using ladder-type small molecule acceptors. Organic Electronics, 2017, 44, 217-224.	2.6	45
141	Amino-functionalized conjugated polymer electron transport layers enhance the UV-photostability of planar heterojunction perovskite solar cells. Chemical Science, 2017, 8, 4587-4594.	7.4	57
142	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. Nature Photonics, 2017, 11, 85-90.	31.4	510
143	Poly(3,4â€Ethylenedioxythiophene): Methylnaphthalene Sulfonate Formaldehyde Condensate: The Effect of Work Function and Structural Homogeneity on Hole Injection/Extraction Properties. Advanced Energy Materials, 2017, 7, 1601499.	19.5	50
144	Combined optimization of emission layer morphology and hole-transport layer for enhanced performance of perovskite light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 6169-6175.	5.5	28

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145	Effects of organic cations on the defect physics of tin halide perovskites. Journal of Materials Chemistry A, 2017, 5, 15124-15129.	10.3	213
146	Ultraviolet-ozone surface modification for non-wetting hole transport materials based inverted planar perovskite solar cells with efficiency exceeding 18%. Journal of Power Sources, 2017, 360, 157-165.	7.8	106
147	Interface design for high-efficiency non-fullerene polymer solar cells. Energy and Environmental Science, 2017, 10, 1784-1791.	30.8	187
148	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. Advanced Energy Materials, 2017, 7, 1602333.	19.5	209
149	Highâ€Performance Colorâ€Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. Advanced Materials, 2017, 29, 1603157.	21.0	218
150	Naphthalene Diimide Based n-Type Conjugated Polymers as Efficient Cathode Interfacial Materials for Polymer and Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 36070-36081.	8.0	39
151	Synergic Interface and Optical Engineering for Highâ€Performance Semitransparent Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1701121.	19.5	50
152	Fabrication of high-performance and low-hysteresis lead halide perovskite solar cells by utilizing a versatile alcohol-soluble bispyridinium salt as an efficient cathode modifier. Journal of Materials Chemistry A, 2017, 5, 17943-17953.	10.3	26
153	Interface and Tandem Design for High Performance Polymer Solar Cells. , 2017, , .		0
154	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. Advanced Functional Materials, 2016, 26, 2950-2958.	14.9	305
155	Chitosanâ€Assisted Crystallization and Film Forming of Perovskite Crystals through Biomineralization. Chemistry - an Asian Journal, 2016, 11, 893-899.	3.3	9
156	Highâ€Performance Polymer Tandem Solar Cells Employing a New nâ€Type Conjugated Polymer as an Interconnecting Layer. Advanced Materials, 2016, 28, 4817-4823.	21.0	156
157	Aminoâ€Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for Highâ€Performance Planarâ€Heterojunction Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501534.	19.5	278
158	Improving Film Formation and Photovoltage of Highly Efficient Invertedâ€Type Perovskite Solar Cells through the Incorporation of New Polymeric Hole Selective Layers. Advanced Energy Materials, 2016, 6, 1502021.	19.5	152
159	Solar Cells: Aminoâ€Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for Highâ€Performance Planarâ€Heterojunction Perovskite Solar Cells (Adv. Energy Mater. 5/2016). Advanced Energy Materials, 2016, 6, .	19.5	8
160	Wide bandgap dithienobenzodithiophene-based Ï€-conjugated polymers consisting of fluorinated benzotriazole and benzothiadiazole for polymer solar cells. Journal of Materials Chemistry C, 2016, 4, 4719-4727.	5.5	34
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