Hin-Lap Yip

List of Publications by Year
in descending order

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	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
2	Organic and solution-processed tandem solar cells with 17.3% efficiency. Science, 2018, 361, 1094-1098.	12.6	2,262
3	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. Energy and Environmental Science, 2012, 5, 5994.	30.8	993
4	Interface Engineering for Organic Electronics. Advanced Functional Materials, 2010, 20, 1371-1388.	14.9	859
5	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. Applied Physics Letters, 2008, 92, .	3.3	790
6	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. Nano Letters, 2013, 13, 3124-3128.	9.1	602
7	n-Type Water/Alcohol-Soluble Naphthalene Diimide-Based Conjugated Polymers for High-Performance Polymer Solar Cells. Journal of the American Chemical Society, 2016, 138, 2004-2013.	13.7	525
8	Polymer Solar Cells That Use Selfâ€Assembledâ€Monolayerâ€•Modified ZnO/Metals as Cathodes. Advanced Materials, 2008, 20, 2376-2382.	21.0	511
9	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. Nature Photonics, 2017, 11, 85-90.	31.4	510
10	Functional fullerenes for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 4161.	6.7	478
11	The role of spin in the kinetic control of recombination in organic photovoltaics. Nature, 2013, 500, 435-439.	27.8	460
12	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. Nature Communications, 2020, 11, 3943.	12.8	458
13	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
14	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. Nature Communications, 2020, 11, 177.	12.8	360
15	Blocking reactions between indium-tin oxide and poly (3,4-ethylene dioxythiophene):poly(styrene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	349
16	Efficient Polymer Solar Cells Based on the Copolymers of Benzodithiophene and Thienopyrroledione. Chemistry of Materials, 2010, 22, 2696-2698.	6.7	346
17	Improved Charge Transport and Absorption Coefficient in Indacenodithieno[3,2â€b]thiopheneâ€based Ladderâ€Type Polymer Leading to Highly Efficient Polymer Solar Cells. Advanced Materials, 2012, 24, 6356-6361.	21.0	343
18	Interfacial modification to improve inverted polymer solar cells. Journal of Materials Chemistry, 2008, 18, 5113.	6.7	339

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19	Interface Engineering for Allâ€Inorganic CsPbI₂Br Perovskite Solar Cells with Efficiency over 14%. Advanced Materials, 2018, 30, e1802509.	21.0	336
20	Development of New Conjugated Polymers with Donorâˆ’Ï€-Bridgeâˆ’Acceptor Side Chains for High Performance Solar Cells. Journal of the American Chemical Society, 2009, 131, 13886-13887.	13.7	335
21	Dual Interfacial Design for Efficient CsPbI₂Br Perovskite Solar Cells with Improved Photostability. Advanced Materials, 2019, 31, e1901152.	21.0	328
22	Semi-transparent polymer solar cells with 6% PCE, 25% average visible transmittance and a color rendering index close to 100 for power generating window applications. Energy and Environmental Science, 2012, 5, 9551.	30.8	323
23	High-Efficiency Polymer Solar Cells via the Incorporation of an Amino-Functionalized Conjugated Metallopolymer as a Cathode Interlayer. Journal of the American Chemical Society, 2013, 135, 15326-15329.	13.7	321
24	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
25	Indacenodithiophene and Quinoxaline-Based Conjugated Polymers for Highly Efficient Polymer Solar Cells. Chemistry of Materials, 2011, 23, 2289-2291.	6.7	318
26	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
27	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
28	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. Applied Physics Letters, 2008, 93, .	3.3	295
29	A Review on the Development of the Inverted Polymer Solar Cell Architecture. Polymer Reviews, 2010, 50, 474-510.	10.9	293
30	Decomposition of Organometal Halide Perovskite Films on Zinc Oxide Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 19986-19993.	8.0	279
31	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
32	Metal grid/conducting polymer hybrid transparent electrode for inverted polymer solar cells. Applied Physics Letters, 2010, 96, .	3.3	273
33	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
34	Rational Design of Advanced Thermoelectric Materials. Advanced Energy Materials, 2013, 3, 549-565.	19.5	264
35	Indium tin oxide-free semi-transparent inverted polymer solar cells using conducting polymer as both bottom and top electrodes. Organic Electronics, 2009, 10, 1401-1407.	2.6	255
36	Doping of Fullerenes via Anionâ€Induced Electron Transfer and Its Implication for Surfactant Facilitated High Performance Polymer Solar Cells. Advanced Materials, 2013, 25, 4425-4430.	21.0	244

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37	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. Chemical Communications, 2011, 47, 11026.	4.1	241
38	Inorganic Halide Perovskite Solar Cells: Progress and Challenges. Advanced Energy Materials, 2020, 10, 2000183.	19.5	231
39	Highâ€Performance Colorâ€Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. Advanced Materials, 2017, 29, 1603157.	21.0	218
40	Effects of organic cations on the defect physics of tin halide perovskites. Journal of Materials Chemistry A, 2017, 5, 15124-15129.	10.3	213
41	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
42	Surface Doping of Conjugated Polymers by Graphene Oxide and Its Application for Organic Electronic Devices. Advanced Materials, 2011, 23, 1903-1908.	21.0	204
43	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
44	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
45	Structurally Reconstructed CsPbI₂Br Perovskite for Highly Stable and Squareâ€Centimeter Allâ€Inorganic Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803572.	19.5	192
46	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. Chemistry of Materials, 2009, 21, 2598-2600.	6.7	191
47	Interface design for high-efficiency non-fullerene polymer solar cells. Energy and Environmental Science, 2017, 10, 1784-1791.	30.8	187
48	Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. Macromolecules, 2012, 45, 5427-5435.	4.8	186
49	Highly efficient fullerene/perovskite planar heterojunction solar cells via cathode modification with an amino-functionalized polymer interlayer. Journal of Materials Chemistry A, 2014, 2, 19598-19603.	10.3	186
50	Enhanced Openâ€Circuit Voltage in High Performance Polymer/Fullerene Bulkâ€Heterojunction Solar Cells by Cathode Modification with a C₆₀ Surfactant. Advanced Energy Materials, 2012, 2, 82-86.	19.5	185
51	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11%. Advanced Materials, 2018, 30, e1707508.	21.0	184
52	High Performance Amorphous Metallated Ï€-Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells. Chemistry of Materials, 2008, 20, 5734-5736.	6.7	182
53	Interface-enhanced organic solar cells with extrapolated T80 lifetimes of over 20â€¯years. Science Bulletin, 2020, 65, 208-216.	9.0	181
54	Interfacial Engineering of Ultrathin Metal Film Transparent Electrode for Flexible Organic Photovoltaic Cells. Advanced Materials, 2014, 26, 3618-3623.	21.0	178

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55	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. Joule, 2018, 2, 1816-1826.	24.0	173
56	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. Energy and Environmental Science, 2013, 6, 3241.	30.8	168
57	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. Applied Physics Letters, 2008, 92, .	3.3	167
58	Effect of Chemical Modification of Fullerene-Based Self-Assembled Monolayers on the Performance of Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 1892-1902.	8.0	166
59	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MAâ€Free Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000571.	21.0	166
60	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. Journal of Materials Chemistry, 2012, 22, 8574.	6.7	159
61	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	8.2	158
62	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
63	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. Chemistry of Materials, 2013, 25, 3188-3195.	6.7	155
64	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
65	Highâ€Performance Largeâ€Area Organic Solar Cells Enabled by Sequential Bilayer Processing via Nonhalogenated Solvents. Advanced Energy Materials, 2019, 9, 1802832.	19.5	152
66	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
67	Ï€â€Ïƒâ€Phosphonic Acid Organic Monolayer/Solâ€"Gel Hafnium Oxide Hybrid Dielectrics for Lowâ€Voltage Organic Transistors. Advanced Materials, 2008, 20, 3697-3701.	21.0	142
68	Toward Highâ€Performance Semiâ€Transparent Polymer Solar Cells: Optimization of Ultraâ€Thin Light Absorbing Layer and Transparent Cathode Architecture. Advanced Energy Materials, 2013, 3, 417-423.	19.5	141
69	High-Throughput Optical Screening for Efficient Semitransparent Organic Solar Cells. Joule, 2019, 3, 2241-2254.	24.0	141
70	Highâ€Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and Seeâ€Through Functions. Advanced Materials, 2020, 32, e2001621.	21.0	140
71	Carbonâ€"Oxygenâ€Bridged Ladderâ€Type Building Blocks for Highly Efficient Nonfullerene Acceptors. Advanced Materials, 2019, 31, e1804790.	21.0	139
72	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. Chemistry of Materials, 2014, 26, 3009-3017.	6.7	136

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73	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2â€<i>b</i>]thiopheneâ€Based Polymers and Devices. Advanced Functional Materials, 2014, 24, 1465-1473.	14.9	132
74	Solutionâ€Processible Highly Conducting Fullerenes. Advanced Materials, 2013, 25, 2457-2461.	21.0	130
75	Surpassing the 10% efficiency milestone for 1-cm2 all-polymer solar cells. Nature Communications, 2019, 10, 4100.	12.8	129
76	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. ACS Energy Letters, 2020, 5, 1371-1379.	17.4	126
77	Optical Design of Transparent Thin Metal Electrodes to Enhance Inâ€Coupling and Trapping of Light in Flexible Polymer Solar Cells. Advanced Materials, 2012, 24, 6362-6367.	21.0	125
78	Thermally Cross-Linkable Hole-Transporting Materials on Conducting Polymer: Synthesis, Characterization, and Applications for Polymer Light-Emitting Devices. Chemistry of Materials, 2008, 20, 413-422.	6.7	119
79	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
80	Highâ€Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. Advanced Energy Materials, 2013, 3, 666-673.	19.5	116
81	Nearâ€Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. Advanced Materials, 2018, 30, e1803769.	21.0	116
82	CsPb(I Br1â^')3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
83	Fibril Network Strategy Enables Highâ€Performance Semitransparent Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2002181.	14.9	113
84	Anode modification of inverted polymer solar cells using graphene oxide. Applied Physics Letters, 2010, 97, .	3.3	112
85	Synthesis, Characterization, Charge Transport, and Photovoltaic Properties of Dithienobenzoquinoxaline- and Dithienobenzopyridopyrazine-Based Conjugated Polymers. Macromolecules, 2011, 44, 4752-4758.	4.8	111
86	Highâ€Performance Polymer Solar Cells with Electrostatic Layerâ€byâ€Layer Selfâ€Assembled Conjugated Polyelectrolytes as the Cathode Interlayer. Advanced Materials, 2015, 27, 3607-3613.	21.0	111
87	Conjugated polymers based on C, Si and N-bridged dithiophene and thienopyrroledione units: synthesis, field-effect transistors and bulk heterojunction polymer solar cells. Journal of Materials Chemistry, 2011, 21, 3895.	6.7	110
88	A Versatile Fluoroâ€Containing Lowâ€Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. Advanced Functional Materials, 2013, 23, 5084-5090.	14.9	110
89	Highâ€Dielectric Constant Sideâ€Chain Polymers Show Reduced Nonâ€Geminate Recombination in Heterojunction Solar Cells. Advanced Energy Materials, 2014, 4, 1301857.	19.5	110
90	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. Chemical Science, 2018, 9, 2698-2704.	7.4	109

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91	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
92	High-mobility low-bandgap conjugated copolymers based on indacenodithiophene and thiadiazolo[3,4-c]pyridine units for thin film transistor and photovoltaic applications. Journal of Materials Chemistry, 2011, 21, 13247.	6.7	102
93	Recombination Dynamics Study on Nanostructured Perovskite Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1801370.	21.0	102
94	Benzobis(silolothiophene)-Based Low Bandgap Polymers for Efficient Polymer Solar Cells. Chemistry of Materials, 2011, 23, 765-767.	6.7	101
95	Spectral Engineering of Semitransparent Polymer Solar Cells for Greenhouse Applications. Advanced Energy Materials, 2019, 9, 1803438.	19.5	101
96	Elevenâ€Membered Fusedâ€Ring Low Bandâ€Gap Polymer with Enhanced Charge Carrier Mobility and Photovoltaic Performance. Advanced Functional Materials, 2014, 24, 3631-3638.	14.9	99
97	Spraycoating of silver nanoparticle electrodes for inverted polymer solar cells. Organic Electronics, 2009, 10, 719-723.	2.6	98
98	Synthesis, Characterization, and Photovoltaic Properties of Carbazole-Based Two-Dimensional Conjugated Polymers with Donor-Ï€-Bridge-Acceptor Side Chains. Chemistry of Materials, 2010, 22, 6444-6452.	6.7	95
99	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. Macromolecules, 2013, 46, 5497-5503.	4.8	94
100	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
101	Semitransparent Organic Solar Cells with Vivid Colors. ACS Energy Letters, 2020, 5, 3115-3123.	17.4	93
102	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	19.5	93
103	11.2% Allâ€Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. Advanced Materials, 2018, 30, e1803166.	21.0	92
104	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
105	Phosphonium Halides as Both Processing Additives and Interfacial Modifiers for High Performance Planarâ€Heterojunction Perovskite Solar Cells. Small, 2015, 11, 3344-3350.	10.0	91
106	Graphene oxide nanosheets based organic field effect transistor for nonvolatile memory applications. Applied Physics Letters, 2010, 97, .	3.3	90
107	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. Advanced Materials, 2021, 33, e2008158.	21.0	90
108	Thermally Cross-Linkable Hole-Transporting Materials for Improving Hole Injection in Multilayer Blue-Emitting Phosphorescent Polymer Light-Emitting Diodes. Macromolecules, 2008, 41, 9570-9580.	4.8	89

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109	Facile synthesis of a 56Ï€-electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. Chemical Communications, 2011, 47, 10082.	4.1	89
110	New fullerene design enables efficient passivation of surface traps in high performance p-i-n heterojunction perovskite solar cells. Nano Energy, 2016, 26, 7-15.	16.0	89
111	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
112	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
113	Halogen-free solvent processing for sustainable development of high efficiency organic solar cells. Organic Electronics, 2012, 13, 2870-2878.	2.6	82
114	Stable Sn/Pb-Based Perovskite Solar Cells with a Coherent 2D/3D Interface. IScience, 2018, 9, 337-346.	4.1	82
115	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
116	Utilization of Trapped Optical Modes for White Perovskite Light-Emitting Diodes with Efficiency over 12%. Joule, 2021, 5, 456-466.	24.0	81
117	Inâ€situ Crosslinking and nâ€Doping of Semiconducting Polymers and Their Application as Efficient Electronâ€Transporting Materials in Inverted Polymer Solar Cells. Advanced Energy Materials, 2011, 1, 1148-1153.	19.5	80
118	Efficient Large Area Organic Solar Cells Processed by Bladeâ€Coating With Singleâ€Component Green Solvent. Solar Rrl, 2018, 2, 1700169.	5.8	79
119	Low-voltage organic thin-film transistors with Ï€-Ïƒ-phosphonic acid molecular dielectric monolayers. Applied Physics Letters, 2008, 92, .	3.3	77
120	Metallohalide perovskiteâ€“polymer composite film for hybrid planar heterojunction solar cells. RSC Advances, 2015, 5, 775-783.	3.6	76
121	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
122	Chemically Doped and Cross-linked Hole-Transporting Materials as an Efficient Anode Buffer Layer for Polymer Solar Cells. Chemistry of Materials, 2011, 23, 5006-5015.	6.7	73
123	Improved thin film morphology and bulk-heterojunction solar cell performance through systematic tuning of the surface energy of conjugated polymers. Journal of Materials Chemistry, 2012, 22, 5587.	6.7	73
124	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
125	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
126	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. Advanced Energy Materials, 2014, 4, 1301645.	19.5	71

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127	Highly efficient electro-optic polymers through improved poling using a thin TiO2-modified transparent electrode. Applied Physics Letters, 2010, 96, .	3.3	70
128	A lactam building block for efficient polymer solar cells. Chemical Communications, 2015, 51, 11830-11833.	4.1	69
129	Composition Engineering of Allâ€Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. Advanced Functional Materials, 2020, 30, 2001764.	14.9	69
130	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
131	Allâ€Organic Photopatterned One Diodeâ€One Resistor Cell Array for Advanced Organic Nonvolatile Memory Applications. Advanced Materials, 2012, 24, 828-833.	21.0	68
132	Self-Assembled Monolayers of Aromatic Thiols Stabilized by Parallel-Displaced Ï€â^'Ï€ Stacking Interactions. Langmuir, 2006, 22, 3049-3056.	3.5	67
133	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. Advanced Science, 2016, 3, 1500353.	11.2	67
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	Suppressing Ion Migration across Perovskite Grain Boundaries by Polymer Additives. Advanced Functional Materials, 2021, 31, 2006802.	14.9	66
136	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	19.5	66
137	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	24.0	66
138	The distinctive phase stability and defect physics in CsPbI₂Br perovskite. Journal of Materials Chemistry A, 2019, 7, 20201-20207.	10.3	64
139	Strong Photocurrent Enhancements in Highly Efficient Flexible Organic Solar Cells by Adopting a Microcavity Configuration. Advanced Materials, 2014, 26, 3349-3354.	21.0	63
140	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
141	Overcoming Spaceâ€Charge Effect for Efficient Thickâ€Film Nonâ€Fullerene Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1801609.	19.5	62
142	Optical Analysis for Semitransparent Organic Solar Cells. Solar Rrl, 2019, 3, 1800270.	5.8	62
143	Polymer Triplet Energy Levels Need Not Limit Photocurrent Collection in Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 19661-19668.	13.7	61
144	n-Doping of thermally polymerizable fullerenes as an electron transporting layer for inverted polymer solar cells. Journal of Materials Chemistry, 2011, 21, 6956.	6.7	60

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145	Morphology Evolution in Highâ€Performance Polymer Solar Cells Processed from Nonhalogenated Solvent. Advanced Science, 2015, 2, 1500095.	11.2	60
146	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. Nano Energy, 2019, 63, 103807.	16.0	59
147	An Operando Study on the Photostability of Nonfullerene Organic Solar Cells. Solar Rrl, 2019, 3, 1900077.	5.8	59
148	Efficient monolithic perovskite/organic tandem solar cells and their efficiency potential. Nano Energy, 2020, 78, 105238.	16.0	59
149	Highâ€Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Holeâ€Transporting Modifications. Advanced Functional Materials, 2012, 22, 2804-2811.	14.9	58
150	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
151	Patterning of Robust Self-Assembled n-type Hexaazatrinaphthylene-Based Nanorods and Nanowires by Microcontact Printing. Journal of the American Chemical Society, 2006, 128, 13042-13043.	13.7	55
152	Highly Transparent Organic Solar Cells with Allâ€Nearâ€Infrared Photoactive Materials. Small Methods, 2019, 3, 1900424.	8.6	55
153	Highâ€Performance Semiâ€Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. Advanced Energy Materials, 2021, 11, 2003408.	19.5	54
154	Synthesis, Nanostructure, Functionality, and Application of Polyfluorene-<i>block</i>-poly(<i>N</i>-isopropylacrylamide)s. Macromolecules, 2010, 43, 282-291.	4.8	53
155	Coâ€Interlayer Engineering toward Efficient Green Quasiâ€Twoâ€Dimensional Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910167.	14.9	52
156	Materials, photophysics and device engineering of perovskite light-emitting diodes. Reports on Progress in Physics, 2021, 84, 046401.	20.1	52
157	High-performance see-through power windows. Energy and Environmental Science, 2022, 15, 2629-2637.	30.8	51
158	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
159	Synergic Interface and Optical Engineering for Highâ€Performance Semitransparent Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1701121.	19.5	50
160	Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. Advanced Functional Materials, 2012, 22, 2160-2166.	14.9	49
161	Inkjet Printing Matrix Perovskite Quantum Dot Lightâ€Emitting Devices. Advanced Materials Technologies, 2020, 5, 2000099.	5.8	49
162	Evaluation of structureâ€“property relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. Journal of Materials Chemistry, 2012, 22, 14976.	6.7	48

#	Article	IF	Citations
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