

Gang Li

List of Publications by Year in descending order

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220
papers

64,701
citations

4388

86
h-index

1857

209
g-index

225
all docs

225
docs citations

225
times ranked

32422
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014, 345, 542-546.	12.6	5,936
2	High-efficiency solution processable polymer photovoltaic cells by self-organization of polymer blends. <i>Nature Materials</i> , 2005, 4, 864-868.	27.5	5,281
3	Polymer solar cells. <i>Nature Photonics</i> , 2012, 6, 153-161.	31.4	4,041
4	For the Bright Future—Bulk Heterojunction Polymer Solar Cells with Power Conversion Efficiency of 7.4%. <i>Advanced Materials</i> , 2010, 22, E135-8.	21.0	3,509
5	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009, 3, 649-653.	31.4	3,015
6	A polymer tandem solar cell with 10.6% power conversion efficiency. <i>Nature Communications</i> , 2013, 4, 1446.	12.8	2,612
7	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014, 5, 5404.	12.8	2,214
8	Planar Heterojunction Perovskite Solar Cells via Vapor-Assisted Solution Process. <i>Journal of the American Chemical Society</i> , 2014, 136, 622-625.	13.7	2,091
9	Next-generation organic photovoltaics based on non-fullerene acceptors. <i>Nature Photonics</i> , 2018, 12, 131-142.	31.4	1,535
10	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. <i>Nature Photonics</i> , 2012, 6, 180-185.	31.4	1,374
11	Highly Efficient Solar Cell Polymers Developed via Fine-Tuning of Structural and Electronic Properties. <i>Journal of the American Chemical Society</i> , 2009, 131, 7792-7799.	13.7	1,339
12	Recent Progress in Polymer Solar Cells: Manipulation of Polymer:Fullerene Morphology and the Formation of Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2009, 21, 1434-1449.	21.0	1,211
13	On the mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene):poly(styrene) Tj ETQq1 1 0.784314 rgBT/Overl 3.8 1,161	31.4	1,161
14	Synthesis, Characterization, and Photovoltaic Properties of a Low Band Gap Polymer Based on Silole-Containing Polythiophenes and 2,1,3-Benzothiadiazole. <i>Journal of the American Chemical Society</i> , 2008, 130, 16144-16145.	13.7	1,092
15	“Solvent Annealing” Effect in Polymer Solar Cells Based on Poly(3-hexylthiophene) and Methanofullerenes. <i>Advanced Functional Materials</i> , 2007, 17, 1636-1644.	14.9	1,091
16	25th Anniversary Article: A Decade of Organic/Polymeric Photovoltaic Research. <i>Advanced Materials</i> , 2013, 25, 6642-6671.	21.0	1,055
17	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015, 115, 12633-12665.	47.7	1,029
18	Transition metal oxides as the buffer layer for polymer photovoltaic cells. <i>Applied Physics Letters</i> , 2006, 88, 073508.	3.3	953

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19	Development of New Semiconducting Polymers for High Performance Solar Cells. Journal of the American Chemical Society, 2009, 131, 56-57.	13.7	904
20	Single Crystal Formamidinium Lead Iodide (FAPbI ₃): Insight into the Structural, Optical, and Electrical Properties. Advanced Materials, 2016, 28, 2253-2258.	21.0	781
21	Efficient inverted polymer solar cells. Applied Physics Letters, 2006, 88, 253503.	3.3	743
22	Investigation of annealing effects and film thickness dependence of polymer solar cells based on poly(3-hexylthiophene). Journal of Applied Physics, 2005, 98, 043704.	2.5	730
23	Synthesis of a Low Band Gap Polymer and Its Application in Highly Efficient Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 15586-15587.	13.7	688
24	Moisture assisted perovskite film growth for high performance solar cells. Applied Physics Letters, 2014, 105, .	3.3	667
25	Vertical Phase Separation in Poly(3-hexylthiophene): Fullerene Derivative Blends and its Advantage for Inverted Structure Solar Cells. Advanced Functional Materials, 2009, 19, 1227-1234.	14.9	650
26	Effects of Solvent Mixtures on the Nanoscale Phase Separation in Polymer Solar Cells. Advanced Functional Materials, 2008, 18, 1783-1789.	14.9	645
27	Synthesis of Fluorinated Polythienothiophene-co-benzodithiophenes and Effect of Fluorination on the Photovoltaic Properties. Journal of the American Chemical Society, 2011, 133, 1885-1894.	13.7	548
28	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. Scientific Reports, 2013, 3, 3356.	3.3	542
29	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. Nature Communications, 2016, 7, 10214.	12.8	534
30	Systematic Investigation of Benzodithiophene- and Diketopyrrolopyrrole-Based Low-Bandgap Polymers Designed for Single Junction and Tandem Polymer Solar Cells. Journal of the American Chemical Society, 2012, 134, 10071-10079.	13.7	530
31	Accurate Measurement and Characterization of Organic Solar Cells. Advanced Functional Materials, 2006, 16, 2016-2023.	14.9	506
32	Visibly Transparent Polymer Solar Cells Produced by Solution Processing. ACS Nano, 2012, 6, 7185-7190.	14.6	492
33	High-performance multiple-donor bulk heterojunction solar cells. Nature Photonics, 2015, 9, 190-198.	31.4	489
34	Highly efficient inverted polymer solar cell by low temperature annealing of Cs ₂ CO ₃ interlayer. Applied Physics Letters, 2008, 92, .	3.3	447
35	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Subcells. Advanced Materials, 2013, 25, 3973-3978.	21.0	419
36	Achieving High-Efficiency Polymer White-Light-Emitting Devices. Advanced Materials, 2006, 18, 114-117.	21.0	411

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37	Manipulating regioregular poly(3-hexylthiophene) : [6,6]-phenyl-C61-butyric acid methyl ester blends route towards high efficiency polymer solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 3126.	6.7	351
38	Fused Silver Nanowires with Metal Oxide Nanoparticles and Organic Polymers for Highly Transparent Conductors. <i>ACS Nano</i> , 2011, 5, 9877-9882.	14.6	348
39	Metal Oxide Nanoparticles as an Electron Transport Layer in High Performance and Stable Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 5267-5272.	21.0	333
40	Effective Carrier Concentration Tuning of SnO ₂ Quantum Dot Electron Selective Layers for High Performance Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1706023.	21.0	333
41	Effect of self-organization in polymer/fullerene bulk heterojunctions on solar cell performance. <i>Applied Physics Letters</i> , 2006, 89, 063505.	3.3	331
42	Highly Efficient Tandem Polymer Photovoltaic Cells. <i>Advanced Materials</i> , 2010, 22, 380-383.	21.0	320
43	Nanoscale Joule Heating and Electromigration Enhanced Ripening of Silver Nanowire Contacts. <i>ACS Nano</i> , 2014, 8, 2804-2811.	14.6	320
44	A Semi-transparent Plastic Solar Cell Fabricated by a Lamination Process. <i>Advanced Materials</i> , 2008, 20, 415-419.	21.0	308
45	Low-bandgap conjugated polymers enabling solution-processable tandem solar cells. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	284
46	Absorption spectra modification in poly(3-hexylthiophene):methanofullerene blend thin films. <i>Chemical Physics Letters</i> , 2005, 411, 138-143.	2.6	269
47	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , 2021, 15, 681-689.	31.4	255
48	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013, 38, 1909-1928.	24.7	246
49	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via Conjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. <i>Advanced Materials</i> , 2018, 30, e1706126.	21.0	241
50	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021, 5, 914-930.	24.0	228
51	Transparent Polymer Photovoltaics for Solar Energy Harvesting and Beyond. <i>Joule</i> , 2018, 2, 1039-1054.	24.0	211
52	Control of the nanoscale crystallinity and phase separation in polymer solar cells. <i>Applied Physics Letters</i> , 2008, 92, 103306.	3.3	196
53	Efficient light harvesting in multiple-device stacked structure for polymer solar cells. <i>Applied Physics Letters</i> , 2006, 88, 064104.	3.3	193
54	Pure Formamidinium-Based Perovskite Light-Emitting Diodes with High Efficiency and Low Driving Voltage. <i>Advanced Materials</i> , 2017, 29, 1603826.	21.0	179

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55	Fast-Grown Interpenetrating Network in Poly(3-hexylthiophene): Methanofullerenes Solar Cells Processed with Additive. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7946-7953.	3.1	174
56	High-performance semi-transparent polymer solar cells possessing tandem structures. <i>Energy and Environmental Science</i> , 2013, 6, 2714.	30.8	170
57	Additive-induced miscibility regulation and hierarchical morphology enable 17.5% binary organic solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 3044-3052.	30.8	170
58	Combinatorial fabrication and studies of bright white organic light-emitting devices based on emission from rubrene-doped 4,4'-bis(2,2'-diphenylvinyl)-1,1'-biphenyl. <i>Applied Physics Letters</i> , 2003, 83, 5359-5361.	3.3	169
59	Doping of the Metal Oxide Nanostructure and its Influence in Organic Electronics. <i>Advanced Functional Materials</i> , 2009, 19, 1241-1246.	14.9	169
60	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20843-20850.	10.3	169
61	Concurrent improvement in J_{SC} and V_{OC} in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. <i>Energy and Environmental Science</i> , 2020, 13, 2115-2123.	30.8	164
62	High-Performance Organic Bulk-Heterojunction Solar Cells Based on Multiple Donor or Multiple Acceptor Components. <i>Advanced Materials</i> , 2018, 30, 1705706.	21.0	161
63	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. <i>Advanced Energy Materials</i> , 2012, 2, 1203-1207.	19.5	160
64	Recent progress in morphology optimization in perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21356-21386.	10.3	159
65	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. <i>Materials Horizons</i> , 2015, 2, 203-211.	12.2	148
66	Integrated Perovskite/Bulk-Heterojunction toward Efficient Solar Cells. <i>Nano Letters</i> , 2015, 15, 662-668.	9.1	145
67	Energy level alignment of poly(3-hexylthiophene): [6,6]-phenyl C61 butyric acid methyl ester bulk heterojunction. <i>Applied Physics Letters</i> , 2009, 95, 013301.	3.3	142
68	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of Cs ₃ Sb ₂ I ₉ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2566-2573.	8.0	137
69	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 2404-2425.	24.0	137
70	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. <i>Nature Communications</i> , 2021, 12, 4815.	12.8	135
71	Tuning acceptor energy level for efficient charge collection in copper-phthalocyanine-based organic solar cells. <i>Applied Physics Letters</i> , 2006, 88, 153504.	3.3	132
72	Influence of composition and heat-treatment on the charge transport properties of poly(3-hexylthiophene) and [6,6]-phenyl C61-butyric acid methyl ester blends. <i>Applied Physics Letters</i> , 2005, 87, 112105.	3.3	127

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73	Manipulating the Mixed Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2019, 31, e1901284.	21.0	127
74	High efficiency polymer solar cells with vertically modulated nanoscale morphology. <i>Nanotechnology</i> , 2009, 20, 165202.	2.6	122
75	Precise Control of Perovskite Crystallization Kinetics via Sequential A-site Doping. <i>Advanced Materials</i> , 2020, 32, e2004630.	21.0	122
76	Effective Color Tuning in Organic Light-Emitting Diodes Based on Aluminum Tris(5-aryl-8-hydroxyquinoline) Complexes. <i>Advanced Materials</i> , 2004, 16, 2001-2003.	21.0	117
77	Nucleation and crystal growth control for scalable solution-processed organic-inorganic hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1578-1603.	10.3	112
78	High-Efficiency Ternary Organic Solar Cells with a Good Figure-of-Merit Enabled by Two Low-Cost Donor Polymers. <i>ACS Energy Letters</i> , 2022, 7, 2547-2556.	17.4	109
79	Effects of C70 derivative in low band gap polymer photovoltaic devices: Spectral complementation and morphology optimization. <i>Applied Physics Letters</i> , 2006, 89, 153507.	3.3	106
80	Multifunctional Crosslinking Enabled Strain-Regulating Crystallization for Stable, Efficient FAPbI ₃ -Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008487.	21.0	106
81	Delicate Morphology Control Triggers 14.7% Efficiency All-Small-Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001076.	19.5	100
82	Electrostatic Self-Assembly Conjugated Polyelectrolyte-Surfactant Complex as an Interlayer for High Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3284-3289.	14.9	97
83	Solution-Processed Small Molecules Using Different Electron Linkers for High-Performance Solar Cells. <i>Advanced Materials</i> , 2013, 25, 4657-4662.	21.0	96
84	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	17.4	96
85	Donor Derivative Incorporation: An Effective Strategy toward High Performance All-Small-Molecule Ternary Organic Solar Cells. <i>Advanced Science</i> , 2019, 6, 1901613.	11.2	93
86	Room-Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. <i>Advanced Functional Materials</i> , 2019, 29, 1900092.	14.9	92
87	Relating Recombination, Density of States, and Device Performance in an Efficient Polymer:Fullerene Organic Solar Cell Blend. <i>Advanced Energy Materials</i> , 2013, 3, 1201-1209.	19.5	89
88	Improving the power efficiency of white light-emitting diode by doping electron transport material. <i>Applied Physics Letters</i> , 2006, 89, 133509.	3.3	87
89	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , 2022, 3, e58.	9.9	85
90	In situ and ex situ investigations on ternary strategy and co-solvent effects towards high-efficiency organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2479-2488.	30.8	84

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91	A Lewis Base-Assisted Passivation Strategy Towards Highly Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800055.	5.8	83
92	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. <i>Nano Letters</i> , 2017, 17, 5140-5147.	9.1	78
93	The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 20-26.	6.2	75
94	Recent progress of all-polymer solar cells – From chemical structure and device physics to photovoltaic performance. <i>Materials Science and Engineering Reports</i> , 2020, 140, 100542.	31.8	75
95	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35088-35094.	8.0	74
96	Benzodithiophene-Based Small-Molecule Donors for Next-Generation All-Small-Molecule Organic Photovoltaics. <i>Matter</i> , 2020, 3, 1403-1432.	10.0	72
97	Origin of Radiation-Induced Degradation in Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 2729-2736.	14.9	70
98	Eutectic phase behavior induced by a simple additive contributes to efficient organic solar cells. <i>Nano Energy</i> , 2021, 84, 105862.	16.0	70
99	High-Performance Rigid and Flexible Perovskite Solar Cells with Low-Temperature Solution-Processable Binary Metal Oxide Hole-Transporting Materials. <i>Solar Rrl</i> , 2017, 1, 1700058.	5.8	69
100	Printable Solar Cells from Advanced Solution-Processable Materials. <i>CheM</i> , 2016, 1, 197-219.	11.7	68
101	Synergy of Liquid-Crystalline Small-Molecule and Polymeric Donors Delivers Uncommon Morphology Evolution and 16.6% Efficiency Organic Photovoltaics. <i>Advanced Science</i> , 2020, 7, 2000149.	11.2	67
102	Single phase, high hole mobility Cu ₂ O films as an efficient and robust hole transporting layer for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11055-11062.	10.3	65
103	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	21.0	64
104	Vertical organic light emitting transistor. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	62
105	A Selenophene Containing Benzodithiophene-thienothiophene Polymer for Additive-Free High Performance Solar Cell. <i>Macromolecules</i> , 2015, 48, 562-568.	4.8	59
106	Potassium-intercalated rubrene as a dual-functional passivation agent for high efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1824-1834.	10.3	59
107	Air-Processed Efficient Organic Solar Cells from Aromatic Hydrocarbon Solvent without Solvent Additive or Post-Treatment: Insights into Solvent Effect on Morphology. <i>Energy and Environmental Materials</i> , 2022, 5, 977-985.	12.8	59
108	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. <i>Nano Energy</i> , 2019, 60, 275-284.	16.0	57

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109	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fine-tuning. <i>Advanced Materials</i> , 2022, 34, e2107659.	21.0	57
110	Functional Third Components in Nonfullerene Acceptor-Based Ternary Organic Solar Cells. <i>Accounts of Materials Research</i> , 2020, 1, 158-171.	11.7	56
111	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. <i>Advanced Materials</i> , 2018, 30, e1801562.	21.0	55
112	Band tail recombination in polymer:fullerene organic solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 074503.	2.5	53
113	Stretchable ITO-free Organic Solar Cells with Intrinsic Anti-reflection Substrate for High-efficiency Outdoor and Indoor Energy Harvesting. <i>Advanced Functional Materials</i> , 2021, 31, 2010172.	14.9	53
114	Elucidating Double Aggregation Mechanisms in the Morphology Optimization of Diketopyrrolopyrrole-Based Narrow Bandgap Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 3142-3147.	21.0	52
115	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. <i>Science China Chemistry</i> , 2017, 60, 472-489.	8.2	52
116	Stabilizer-assisted growth of formamndinium-based perovskites for highly efficient and stable planar solar cells with over 22% efficiency. <i>Nano Energy</i> , 2019, 63, 103835.	16.0	51
117	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1910466.	14.9	50
118	Emerging Strategies toward Mechanically Robust Organic Photovoltaics: Focus on Active Layer. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	50
119	Electronic Structure and Transition Energies in Polymer-Fullerene Bulk Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21873-21883.	3.1	48
120	Lead Halide Perovskite Based Microdisk Lasers for On-Chip Integrated Photonic Circuits. <i>Advanced Optical Materials</i> , 2018, 6, 1701266.	7.3	48
121	A Cryogenic Process for Antisolvent-free High-performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1804402.	21.0	47
122	Excited-State Symmetry-Breaking Charge Separation Dynamics in Multibranching Perylene Diimide Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10329-10339.	4.6	46
123	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015, 6, 6391.	12.8	45
124	One-step, low-temperature deposited perovskite solar cell utilizing small molecule additive. <i>Journal of Photonics for Energy</i> , 2015, 5, 057405.	1.3	45
125	Intermediate Layers in Tandem Organic Solar Cells. <i>Green</i> , 2011, 1, .	0.4	44
126	Simple Is Best: A <i>p</i> -Phenylene Bridging Methoxydiphenylamine-Substituted Carbazole Hole Transporter for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30065-30071.	8.0	44

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127	Bottom-Up Quasi-Epitaxial Growth of Hybrid Perovskite from Solution Process Achieving High-Efficiency Solar Cells via Template-Guided Crystallization. <i>Advanced Materials</i> , 2021, 33, e2100009.	21.0	44
128	Magnetic resonance studies of tris-(8-hydroxyquinoline) aluminum-based organic light-emitting devices. <i>Physical Review B</i> , 2004, 69, .	3.2	43
129	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	43
130	Improving Structural Order for a High-Performance Diketopyrrolopyrrole-Based Polymer Solar Cell with a Thick Active Layer. <i>Advanced Energy Materials</i> , 2014, 4, 1300739.	19.5	43
131	Vitrification Transformation of Poly(Ethylene Oxide) Activating Interface Passivation for High-Efficiency Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900134.	5.8	43
132	Printing High-Efficiency Perovskite Solar Cells in High-Humidity Ambient Environment An In Situ Guided Investigation. <i>Advanced Science</i> , 2021, 8, 2003359.	11.2	40
133	Room-temperature multiple ligands-tailored SnO ₂ quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. <i>Light: Science and Applications</i> , 2021, 10, 239.	16.6	40
134	Tin oxide (SnO ₂) as effective electron selective layer material in hybrid organic-inorganic metal halide perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2018, 27, 962-970.	12.9	39
135	Efficient modulation of end groups for the asymmetric small molecule acceptors enabling organic solar cells with over 15% efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5927-5935.	10.3	39
136	1,1-Dicyanomethylene-3-Indanone End-Cap Engineering for Fused-Ring Electron Acceptor-Based High-Performance Organic Photovoltaics. <i>Cell Reports Physical Science</i> , 2021, 2, 100292.	5.6	38
137	Aperiodic band-pass electrode enables record-performance transparent organic photovoltaics. <i>Joule</i> , 2022, 6, 1918-1930.	24.0	38
138	Enhanced Electron Transport and Heat Transfer Boost Light Stability of Ternary Organic Photovoltaic Cells Incorporating Non-Fullerene Small Molecule and Polymer Acceptors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900497.	5.1	37
139	A novel ball milling technique for room temperature processing of TiO ₂ nanoparticles employed as the electron transport layer in perovskite solar cells and modules. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7114-7122.	10.3	35
140	18.42% efficiency polymer solar cells enabled by terpolymer donors with optimal miscibility and energy levels. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7878-7887.	10.3	34
141	Radiation induced damage and recovery in poly(3-hexyl thiophene) based polymer solar cells. <i>Nanotechnology</i> , 2008, 19, 424014.	2.6	33
142	High performance low band gap polymer solar cells with a non-conventional acceptor. <i>Chemical Communications</i> , 2012, 48, 7616.	4.1	33
143	Efficient Slantwise Aligned Dion-Jacobson Phase Perovskite Solar Cells Based on Trans-1,4-Cyclohexanediamine. <i>Small</i> , 2020, 16, e2003098.	10.0	33
144	Combinatorial study of exciplex formation at the interface between two wide band gap organic semiconductors. <i>Applied Physics Letters</i> , 2006, 88, 253505.	3.3	32

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145	Novel fullerene acceptors: synthesis and application in low band gap polymer solar cells. Journal of Materials Chemistry, 2012, 22, 13391.	6.7	31
146	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. Nano Energy, 2019, 64, 103950.	16.0	31
147	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48095-48102.	8.0	30
148	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaics—A Real-Time Phase Transition Study. Advanced Materials, 2021, 33, e2006238.	21.0	30
149	Roll-to-Roll Production of Graphene Hybrid Electrodes for High-Efficiency, Flexible Organic Photoelectronics. Advanced Materials Interfaces, 2015, 2, 1500445.	3.7	29
150	ITC ₂ Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900377.	5.8	29
151	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. Solar Rrl, 2019, 3, 1900317.	5.8	28
152	Electrical transport in amorphous semiconducting AlMgB14 films. Applied Physics Letters, 2004, 85, 1181-1183.	3.3	27
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