

# Gang Li

## List of Publications by Year in descending order

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220  
papers

64,701  
citations

5126

86  
h-index

2142

209  
g-index

225  
all docs

225  
docs citations

225  
times ranked

37418  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , 2022, 3, e58.	5.2	85
2	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.	7.3	59
3	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. <i>Nano Energy</i> , 2022, 94, 106923.	8.2	20
4	Solution process formation of high performance, stable nanostructured transparent metal electrodes via displacement-diffusion-etch process. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	12
5	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.	11.1	57
6	Enhanced efficiency and stability of triple-cation perovskite solar cells with CsPbI <sub>3</sub> Br <sub>3</sub> QDs surface patches. <i>SmartMat</i> , 2022, 3, 513-521.	6.4	22
7	Normally-OFF AlGaIn/GaN MIS-HEMTs With Low R <sub>ON</sub> and V <sub>th</sub> Hysteresis by Functioning In-situ SiN in Regrowth Process. <i>IEEE Electron Device Letters</i> , 2022, 43, 529-532.	2.2	14
8	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.	5.2	34
9	ZnO electron transporting layer engineering realized over 20% efficiency and over 1.28 V open-circuit voltage in all-inorganic perovskite solar cells. <i>EcoMat</i> , 2022, 4, .	6.8	23
10	Progress in Organic Photodiodes through Physical Process Insights. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	9
11	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	11.1	64
12	Improvement in the Performance of Inverted 3D/2D Perovskite Solar Cells by Ambient Exposure. <i>Solar Rrl</i> , 2022, 6, .	3.1	6
13	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.	15.6	84
14	Self-assembly enables simple structure organic photovoltaics via green-solvent and open-air-printing: Closing the lab-to-fab gap. <i>Materials Today</i> , 2022, 55, 46-55.	8.3	23
15	Ambipolar-transport wide-bandgap perovskite interlayer for organic photovoltaics with over 18% efficiency. <i>Matter</i> , 2022, 5, 2238-2250.	5.0	14
16	Emerging Strategies toward Mechanically Robust Organic Photovoltaics: Focus on Active Layer. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	50
17	Diammonium-Mediated Perovskite Film Formation for High-Luminescence Red Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2022, 34, .	11.1	23
18	In-depth understanding of ionic liquid assisted perovskite film formation mechanism for two-step perovskite photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 73, 599-606.	7.1	20

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19	Tandem Self-Powered Flexible Electrochromic Energy Supplier for Sustainable All-Day Operations. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
20	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.	8.8	109
21	Aperiodic band-pass electrode enables record-performance transparent organic photovoltaics. <i>Joule</i> , 2022, 6, 1918-1930.	11.7	38
22	Oligothiophene-based photovoltaic materials for organic solar cells: rise, plateau, and revival. <i>Trends in Chemistry</i> , 2022, 4, 773-791.	4.4	17
23	Multiple methoxy-substituted hole transporter for inverted perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021, 56, 127-131.	7.1	4
24	Low-temperature processed bipolar metal oxide charge transporting layers for highly efficient perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 221, 110870.	3.0	12
25	Recent progress of metal-halide perovskite-based tandem solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4538-4564.	3.2	15
26	Printing High-Efficiency Perovskite Solar Cells in High-Humidity Ambient Environment—An In Situ Guided Investigation. <i>Advanced Science</i> , 2021, 8, 2003359.	5.6	40
27	Additive-induced miscibility regulation and hierarchical morphology enable 17.5% binary organic solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 3044-3052.	15.6	170
28	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.	7.8	53
29	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.	11.7	228
30	The Challenge of Ambient Air-Processed Organometallic Halide Perovskite: Technology Transfer From Spin Coating to Meniscus Blade Coating of Perovskite Thin Films. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	9
31	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.	11.1	44
32	Eutectic phase behavior induced by a simple additive contributes to efficient organic solar cells. <i>Nano Energy</i> , 2021, 84, 105862.	8.2	70
33	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient $\text{FAPbI}_3$ -Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008487.	11.1	106
34	Interfacial Engineering of $\text{Cu}_2\text{O}$ Passivating Contact for Efficient Crystalline Silicon Solar Cells with an $\text{Al}_2\text{O}_3$ Passivation Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28415-28423.	4.0	25
35	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , 2021, 15, 681-689.	15.6	255
36	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. <i>Nature Communications</i> , 2021, 12, 4815.	5.8	135

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37	Upscaling perovskite solar cells via the ambient deposition of perovskite thin films. Trends in Chemistry, 2021, 3, 747-764.	4.4	12
38	Sensitive, High-Speed, and Broadband Perovskite Photodetectors with Built-In TiO <sub>2</sub> Metalenses. Small, 2021, 17, e2102694.	5.2	4
39	1,1-Dicyanomethylene-3-Indanone End-Cap Engineering for Fused-Ring Electron Acceptor-Based High-Performance Organic Photovoltaics. Cell Reports Physical Science, 2021, 2, 100292.	2.8	38
40	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaics: A Real-Time Phase Transition Study. Advanced Materials, 2021, 33, e2006238.	11.1	30
41	Efficient small-molecule donor with improved structural order and molecular aggregation enabled by side-chain modification. Materials Reports Energy, 2021, 1, 100061.	1.7	1
42	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. Nature Communications, 2021, 12, 6226.	5.8	23
43	Room-temperature multiple ligands-tailored SnO <sub>2</sub> quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. Light: Science and Applications, 2021, 10, 239.	7.7	40
44	A Spirobixanthene-Based Dendrimeric Hole-Transporting Material for Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900367.	3.1	10
45	ITC <sub>2</sub> Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900377.	3.1	29
46	Nucleation and crystal growth control for scalable solution-processed organic-inorganic hybrid perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 1578-1603.	5.2	112
47	Chalcogen-Fused Perylene Diimides-Based Nonfullerene Acceptors for High-Performance Organic Solar Cells: Insight into the Effect of O, S, and Se. Solar Rrl, 2020, 4, 1900453.	3.1	21
48	Deciphering the Role of Fluorination: Morphological Manipulation Prompts Charge Separation and Reduces Carrier Recombination in All-Small-Molecule Photovoltaics. Solar Rrl, 2020, 4, 1900528.	3.1	27
49	Room Temperature Formation of Semiconductor Grade $\text{FAPbI}_3$ Films for Efficient Perovskite Solar Cells. Cell Reports Physical Science, 2020, 1, 100205.	2.8	18
50	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. Joule, 2020, 4, 2404-2425.	11.7	137
51	Excited-State Symmetry-Breaking Charge Separation Dynamics in Multibranched Perylene Diimide Molecules. Journal of Physical Chemistry Letters, 2020, 11, 10329-10339.	2.1	46
52	Size Modulation and Heterovalent Doping Facilitated Hybrid Organic and Perovskite Quantum Dot Bulk Heterojunction Solar Cells. ACS Applied Energy Materials, 2020, 3, 11359-11367.	2.5	14
53	Enhancing Open-Circuit Voltage of High-Efficiency Nonfullerene Ternary Solar Cells with a Star-Shaped Acceptor. ACS Applied Materials & Interfaces, 2020, 12, 50660-50667.	4.0	16
54	Functional Third Components in Nonfullerene Acceptor-Based Ternary Organic Solar Cells. Accounts of Materials Research, 2020, 1, 158-171.	5.9	56

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55	Precise Control of Perovskite Crystallization Kinetics via Sequential A-site Doping. <i>Advanced Materials</i> , 2020, 32, e2004630.	11.1	122
56	Reducing $V_{OC}$ loss via structure compatible and high $V_{OC}$ lowest unoccupied molecular orbital nonfullerene acceptors for over 17% efficiency ternary organic photovoltaics. <i>EcoMat</i> , 2020, 2, e12061.	6.8	23
57	Benzodithiophene-Based Small-Molecule Donors for Next-Generation All-Small-Molecule Organic Photovoltaics. <i>Matter</i> , 2020, 3, 1403-1432.	5.0	72
58	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.	7.8	50
59	Efficient Flexible Perovskite Solar Cells Using Low-Cost Cu Top and Bottom Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26050-26059.	4.0	26
60	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.	15.6	164
61	Delicate Morphology Control Triggers 14.7% Efficiency All-Small-Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001076.	10.2	100
62	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.	5.6	67
63	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.	5.2	39
64	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.	14.8	75
65	Recent progress in morphology optimization in perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21356-21386.	5.2	159
66	Fluorinated oligothiophene donors for high-performance nonfullerene small-molecule organic solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2680-2685.	2.5	12
67	Efficient Slantwise Aligned Dion-Jacobson Phase Perovskite Solar Cells Based on Trans-1,4-Cyclohexanediamine. <i>Small</i> , 2020, 16, e2003098.	5.2	33
68	Methane-perylene diimide-based small molecule acceptors for high efficiency non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10901-10907.	2.7	19
69	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. <i>Nano Energy</i> , 2019, 64, 103950.	8.2	31
70	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.	2.6	37
71	Simple Is Best: A <i>p</i> -Phenylene Bridging Methoxydiphenylamine-Substituted Carbazole Hole Transporter for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30065-30071.	4.0	44
72	Vitrification Transformation of Poly(Ethylene Oxide) Activating Interface Passivation for High-Efficiency Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900134.	3.1	43

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73	Chlorination Strategy-Induced Abnormal Nanomorphology Tuning in High-Efficiency Organic Solar Cells: A Study of Phenyl-Substituted Benzodithiophene-Based Nonfullerene Acceptors. <i>Solar Rrl</i> , 2019, 3, 1900262.	3.1	17
74	Donor Derivative Incorporation: An Effective Strategy toward High Performance All-Small-Molecule Ternary Organic Solar Cells. <i>Advanced Science</i> , 2019, 6, 1901613.	5.6	93
75	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48095-48102.	4.0	30
76	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35088-35094.	4.0	74
77	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. <i>Solar Rrl</i> , 2019, 3, 1900317.	3.1	28
78	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	8.8	96
79	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.	5.2	59
80	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.	8.2	51
81	Vacuum-free fabrication of high-performance semitransparent perovskite solar cells via e-glue assisted lamination process. <i>Science China Chemistry</i> , 2019, 62, 875-882.	4.2	7
82	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14153-14162.	5.2	27
83	Charge carrier transport and nanomorphology control for efficient non-fullerene organic solar cells. <i>Materials Today Energy</i> , 2019, 12, 398-407.	2.5	23
84	Manipulating the Mixed-Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2019, 31, e1901284.	11.1	127
85	Room-Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. <i>Advanced Functional Materials</i> , 2019, 29, 1900092.	7.8	92
86	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. <i>Nano Energy</i> , 2019, 60, 275-284.	8.2	57
87	Functionalizing tetraphenylpyrazine with perylene diimides (PDIs) as high-performance nonfullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14563-14570.	2.7	9
88	Nanomorphology in A-type small molecular acceptors-based bulk heterojunction polymer solar cells. <i>Journal of Energy Chemistry</i> , 2019, 35, 104-123.	7.1	20
89	Investigation of low-bandgap nonfullerene acceptor-based polymer solar cells with very low photovoltage loss. <i>Journal of Photonics for Energy</i> , 2019, 9, 1.	0.8	7
90	Interface Manipulation in Solution Processed Hybrid Perovskite Solar Cells. , 2019, , .		1

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91	Next-generation organic photovoltaics based on non-fullerene acceptors. Nature Photonics, 2018, 12, 131-142.	15.6	1,535
92	Effective Carrier Concentration Tuning of SnO <sub>2</sub> Quantum Dot Electron-Selective Layers for High-Performance Planar Perovskite Solar Cells. Advanced Materials, 2018, 30, e1706023.	11.1	333
93	Tin oxide (SnO <sub>2</sub> ) as effective electron selective layer material in hybrid organic-inorganic metal halide perovskite solar cells. Journal of Energy Chemistry, 2018, 27, 962-970.	7.1	39
94	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via Conjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. Advanced Materials, 2018, 30, e1706126.	11.1	241
95	Lead Halide Perovskite Based Microdisk Lasers for On-Chip Integrated Photonic Circuits. Advanced Optical Materials, 2018, 6, 1701266.	3.6	48
96	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of Cs <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub> . ACS Applied Materials & Interfaces, 2018, 10, 2566-2573.	4.0	137
97	High-Performance Organic Bulk-Heterojunction Solar Cells Based on Multiple Donor or Multiple Acceptor Components. Advanced Materials, 2018, 30, 1705706.	11.1	161
98	A Lewis Base-Assisted Passivation Strategy Towards Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800055.	3.1	83
99	A novel ball milling technique for room temperature processing of TiO <sub>2</sub> nanoparticles employed as the electron transport layer in perovskite solar cells and modules. Journal of Materials Chemistry A, 2018, 6, 7114-7122.	5.2	35
100	Novel Cryo-controlled Nucleation Technique for High-efficiency Perovskite Solar Cells. , 2018, , .		0
101	Non-fullerene acceptor engineering with three-dimensional thiophene/selenophene-annulated perylene diimides for high performance polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 12601-12607.	2.7	21
102	Cryo-controlled Nucleation Method for High-efficiency Perovskite Solar Cells. , 2018, , .		0
103	Pyran-annulated perylene diimide derivatives as non-fullerene acceptors for high performance organic solar cells. Journal of Materials Chemistry C, 2018, 6, 11111-11117.	2.7	16
104	A Cryogenic Process for Antisolvent-Free High-Performance Perovskite Solar Cells. Advanced Materials, 2018, 30, e1804402.	11.1	47
105	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. Advanced Materials, 2018, 30, e1801562.	11.1	55
106	Conjugated Polymer-Based Solar Cells. , 2018, , 256-269.		2
107	Strategies for Growing Perovskite Films on Nanostructured TiO <sub>2</sub> for High Performance Solar Cell. , 2018, , .		2
108	Transparent Polymer Photovoltaics for Solar Energy Harvesting and Beyond. Joule, 2018, 2, 1039-1054.	11.7	211

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109	Novel growth techniques for the deposition of high-quality perovskite thin films. , 2018, , .		0
110	Single phase, high hole mobility Cu <sub>2</sub> O films as an efficient and robust hole transporting layer for organic solar cells. Journal of Materials Chemistry A, 2017, 5, 11055-11062.	5.2	65
111	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. Science China Chemistry, 2017, 60, 472-489.	4.2	52
112	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. Journal of Materials Chemistry A, 2017, 5, 20843-20850.	5.2	169
113	High Efficiency Organic Tandem Solar Cells With Effective Transition Metal Chelates Interconnecting Layer. Solar Rrl, 2017, 1, 1700139.	3.1	19
114	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. Nano Letters, 2017, 17, 5140-5147.	4.5	78
115	Low-bandgap conjugated polymers enabling solution-processable tandem solar cells. Nature Reviews Materials, 2017, 2, .	23.3	284
116	High-Performance Rigid and Flexible Perovskite Solar Cells with Low-Temperature Solution-Processable Binary Metal Oxide Hole-Transporting Materials. Solar Rrl, 2017, 1, 1700058.	3.1	69
117	Transient Magnetophotoinduced Absorption Studies of Photoexcitations in $\pi$ -Conjugated Donor-Acceptor Copolymers. Physical Review Letters, 2017, 119, 017401.	2.9	23
118	Pure Formamidinium-Based Perovskite Light-Emitting Diodes with High Efficiency and Low Driving Voltage. Advanced Materials, 2017, 29, 1603826.	11.1	179
119	Printable Solar Cells from Advanced Solution-Processable Materials. CheM, 2016, 1, 197-219.	5.8	68
120	Inverted Planar Structure of Perovskite Solar Cells. , 2016, , 307-324.		2
121	Single Crystal Formamidinium Lead Iodide (FAPbI <sub>3</sub> ): Insight into the Structural, Optical, and Electrical Properties. Advanced Materials, 2016, 28, 2253-2258.	11.1	781
122	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. Nature Communications, 2016, 7, 10214.	5.8	534
123	Roll-to-Roll Production of Graphene Hybrid Electrodes for High Efficiency, Flexible Organic Photoelectronics. Advanced Materials Interfaces, 2015, 2, 1500445.	1.9	29
124	High-performance multiple-donor bulk heterojunction solar cells. Nature Photonics, 2015, 9, 190-198.	15.6	489
125	A Selenophene Containing Benzodithiophene-thienothiophene Polymer for Additive-Free High Performance Solar Cell. Macromolecules, 2015, 48, 562-568.	2.2	59
126	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. Materials Horizons, 2015, 2, 203-211.	6.4	148



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127	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. Nature Communications, 2015, 6, 6391.	5.8	45
128	Transient measurements of carrier relaxation time and density in the P3HT:PCBM organic photovoltaic cell. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 032404.	0.6	1
129	Themed issue on perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 8924-8925.	5.2	5
130	One-step, low-temperature deposited perovskite solar cell utilizing small molecule additive. Journal of Photonics for Energy, 2015, 5, 057405.	0.8	45
131	Tandem Solar Cellâ€”Concept and Practice in Organic Solar Cells. Topics in Applied Physics, 2015, , 315-346.	0.4	8
132	Ionizing radiation induced parametric variations in P3HT:PCBM organic photovoltaic cells. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 032403.	0.6	7
133	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. Chemical Reviews, 2015, 115, 12633-12665.	23.0	1,029
134	Integrated Perovskite/Bulk-Heterojunction toward Efficient Solar Cells. Nano Letters, 2015, 15, 662-668.	4.5	145
135	Band tail recombination in polymer:fullerene organic solar cells. Journal of Applied Physics, 2014, 116, 074503.	1.1	53
136	Fullerene C70 as a p-type donor in organic photovoltaic cells. Applied Physics Letters, 2014, 105, 093301.	1.5	16
137	Moisture assisted perovskite film growth for high performance solar cells. Applied Physics Letters, 2014, 105, .	1.5	667
138	Elucidating Double Aggregation Mechanisms in the Morphology Optimization of Diketopyrrolopyrroleâ€”Based Narrow Bandgap Polymer Solar Cells. Advanced Materials, 2014, 26, 3142-3147.	11.1	52
139	Planar Heterojunction Perovskite Solar Cells via Vapor-Assisted Solution Process. Journal of the American Chemical Society, 2014, 136, 622-625.	6.6	2,091
140	Solution-processed hybrid perovskite photodetectors with high detectivity. Nature Communications, 2014, 5, 5404.	5.8	2,214
141	Interface engineering of highly efficient perovskite solar cells. Science, 2014, 345, 542-546.	6.0	5,936
142	Immiscible solvents enabled nanostructure formation for efficient polymer photovoltaic cells. Nanotechnology, 2014, 25, 295401.	1.3	8
143	The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. Solar Energy Materials and Solar Cells, 2014, 130, 20-26.	3.0	75
144	Nanoscale Joule Heating and Electromigration Enhanced Ripening of Silver Nanowire Contacts. ACS Nano, 2014, 8, 2804-2811.	7.3	320

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145	Electronic Structure and Transition Energies in Polymer-Fullerene Bulk Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21873-21883.	1.5	48
146	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.	10.2	43
147	High-performance semi-transparent polymer solar cells possessing tandem structures. <i>Energy and Environmental Science</i> , 2013, 6, 2714.	15.6	170
148	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013, 3, 3356.	1.6	542
149	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	43
150	25th Anniversary Article: A Decade of Organic/Polymeric Photovoltaic Research. <i>Advanced Materials</i> , 2013, 25, 6642-6671.	11.1	1,055
151	A polymer tandem solar cell with 10.6% power conversion efficiency. <i>Nature Communications</i> , 2013, 4, 1446.	5.8	2,612
152	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013, 38, 1909-1928.	11.8	246
153	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Sub-Cells. <i>Advanced Materials</i> , 2013, 25, 3973-3978.	11.1	419
154	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.	10.2	89
155	Solution-Processed Small Molecules Using Different Electron Linkers for High-Performance Solar Cells. <i>Advanced Materials</i> , 2013, 25, 4657-4662.	11.1	96
156	Plastic solar cells: breaking the 10% commercialization barrier. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
157	High performance low band gap polymer solar cells with a non-conventional acceptor. <i>Chemical Communications</i> , 2012, 48, 7616.	2.2	33
158	Modeling of the X-irradiation Response of the Carrier Relaxation Time in P3HT:PCBM Organic-Based Photocells. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2902-2908.	1.2	7
159	Systematic Investigation of Benzodithiophene- and Diketopyrrolopyrrole-Based Low-Bandgap Polymers Designed for Single Junction and Tandem Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 10071-10079.	6.6	530
160	Polymer solar cells. <i>Nature Photonics</i> , 2012, 6, 153-161.	15.6	4,041
161	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. <i>Nature Photonics</i> , 2012, 6, 180-185.	15.6	1,374
162	Visibly Transparent Polymer Solar Cells Produced by Solution Processing. <i>ACS Nano</i> , 2012, 6, 7185-7190.	7.3	492

#	ARTICLE	IF	CITATIONS
163	Novel fullerene acceptors: synthesis and application in low band gap polymer solar cells. Journal of Materials Chemistry, 2012, 22, 13391.	6.7	31
164	Electrostatic Self-Assembly Conjugated Polyelectrolyte-Surfactant Complex as an Interlayer for High Performance Polymer Solar Cells. Advanced Functional Materials, 2012, 22, 3284-3289.	7.8	97
165	Metal Oxide Nanoparticles as an Electron-Transport Layer in High-Performance and Stable Inverted Polymer Solar Cells. Advanced Materials, 2012, 24, 5267-5272.	11.1	333
166	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. Advanced Energy Materials, 2012, 2, 1203-1207.	10.2	160
167	Intermediate Layers in Tandem Organic Solar Cells. Green, 2011, 1, .	0.4	44
168	Fused Silver Nanowires with Metal Oxide Nanoparticles and Organic Polymers for Highly Transparent Conductors. ACS Nano, 2011, 5, 9877-9882.	7.3	348
169	Synthesis of Fluorinated Polythienothiophene-co-benzodithiophenes and Effect of Fluorination on the Photovoltaic Properties. Journal of the American Chemical Society, 2011, 133, 1885-1894.	6.6	548
170	High-efficiency solution processable polymer photovoltaic cells by self-organization of polymer blends. , 2010, , 80-84.		24
171	Origin of Radiation-Induced Degradation in Polymer Solar Cells. Advanced Functional Materials, 2010, 20, 2729-2736.	7.8	70
172	Highly Efficient Tandem Polymer Photovoltaic Cells. Advanced Materials, 2010, 22, 380-383.	11.1	320
173	For the Bright Future—Bulk Heterojunction Polymer Solar Cells with Power Conversion Efficiency of 7.4%. Advanced Materials, 2010, 22, E135-8.	11.1	3,509
174	Improving Polymer Solar Cell Through Efficient Solar Energy Harvesting. Green Energy and Technology, 2010, , 199-236.	0.4	0
175	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.	7.8	650
176	Doping of the Metal Oxide Nanostructure and its Influence in Organic Electronics. Advanced Functional Materials, 2009, 19, 1241-1246.	7.8	169
177	Recent Progress in Polymer Solar Cells: Manipulation of Polymer:Fullerene Morphology and the Formation of Efficient Inverted Polymer Solar Cells. Advanced Materials, 2009, 21, 1434-1449.	11.1	1,211
178	Polymer solar cells with enhanced open-circuit voltage and efficiency. Nature Photonics, 2009, 3, 649-653.	15.6	3,015
179	Development of New Semiconducting Polymers for High Performance Solar Cells. Journal of the American Chemical Society, 2009, 131, 56-57.	6.6	904
180	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.	6.6	688

#	ARTICLE	IF	CITATIONS
181	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.	6.6	1,339
182	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.	1.5	174
183	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.	1.5	142
184	High efficiency polymer solar cells with vertically modulated nanoscale morphology. <i>Nanotechnology</i> , 2009, 20, 165202.	1.3	122
185	Effects of Solvent Mixtures on the Nanoscale Phase Separation in Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2008, 18, 1783-1789.	7.8	645
186	A Semi-transparent Plastic Solar Cell Fabricated by a Lamination Process. <i>Advanced Materials</i> , 2008, 20, 415-419.	11.1	308
187	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.	6.6	1,092
188	Highly efficient inverted polymer solar cell by low temperature annealing of Cs <sub>2</sub> CO <sub>3</sub> interlayer. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	447
189	Measurement issues of organic solar cell. , 2008, , .		3
190	A photoelectron spectroscopy study of tunable charge injection barrier between metal/organic interface. <i>Applied Physics Letters</i> , 2008, 93, 023302.	1.5	4
191	Radiation induced damage and recovery in poly(3-hexyl thiophene) based polymer solar cells. <i>Nanotechnology</i> , 2008, 19, 424014.	1.3	33
192	Control of the nanoscale crystallinity and phase separation in polymer solar cells. <i>Applied Physics Letters</i> , 2008, 92, 103306.	1.5	196
193	Vertical organic light emitting transistor. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	62
194	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
195	“Solvent Annealing” Effect in Polymer Solar Cells Based on Poly(3-hexylthiophene) and Methanofullerenes. <i>Advanced Functional Materials</i> , 2007, 17, 1636-1644.	7.8	1,091
196	Transition metal oxides as the buffer layer for polymer photovoltaic cells. <i>Applied Physics Letters</i> , 2006, 88, 073508.	1.5	953
197	Efficient light harvesting in multiple-device stacked structure for polymer solar cells. <i>Applied Physics Letters</i> , 2006, 88, 064104.	1.5	193
198	Tuning acceptor energy level for efficient charge collection in copper-phthalocyanine-based organic solar cells. <i>Applied Physics Letters</i> , 2006, 88, 153504.	1.5	132

#	ARTICLE	IF	CITATIONS
199	Efficient inverted polymer solar cells. Applied Physics Letters, 2006, 88, 253503.	1.5	743
200	Improving the power efficiency of white light-emitting diode by doping electron transport material. Applied Physics Letters, 2006, 89, 133509.	1.5	87
201	Effect of self-organization in polymer/fullerene bulk heterojunctions on solar cell performance. Applied Physics Letters, 2006, 89, 063505.	1.5	331
202	Accurate Measurement and Characterization of Organic Solar Cells. Advanced Functional Materials, 2006, 16, 2016-2023.	7.8	506
203	Achieving High-Efficiency Polymer White-Light-Emitting Devices. Advanced Materials, 2006, 18, 114-117.	11.1	411
204	Tandem stacking structure for polymer solar cells by using semi-transparent electrodes. , 2006, 6334, 170.		1
205	Effects of C70 derivative in low band gap polymer photovoltaic devices: Spectral complementation and morphology optimization. Applied Physics Letters, 2006, 89, 153507.	1.5	106
206	Combinatorial study of exciplex formation at the interface between two wide band gap organic semiconductors. Applied Physics Letters, 2006, 88, 253505.	1.5	32
207	Polymer self-organization enhances photovoltaic efficiency. SPIE Newsroom, 2006, , .	0.1	2
208	Combinatorial fabrication and study of white organic light-emitting devices based on non-doping ultrathin 5,6,11,12-tetraphenylanthracene (rubrene) yellow-emitting layer. , 2005, , .		1
209	Absorption spectra modification in poly(3-hexylthiophene):methanofullerene blend thin films. Chemical Physics Letters, 2005, 411, 138-143.	1.2	269
210	High-efficiency solution processable polymer photovoltaic cells by self-organization of polymer blends. Nature Materials, 2005, 4, 864-868.	13.3	5,281
211	Electroluminescence-detected magnetic resonance studies of Pt octaethyl porphyrin-based phosphorescent organic light-emitting devices. Physical Review B, 2005, 71, .	1.1	22
212	Investigation of annealing effects and film thickness dependence of polymer solar cells based on poly(3-hexylthiophene). Journal of Applied Physics, 2005, 98, 043704.	1.1	730
213	Controlling Optical Properties of Electrodes With Stacked Metallic Thin Films for Polymeric Light-Emitting Diodes and Displays. Journal of Display Technology, 2005, 1, 105-111.	1.3	10
214	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. Applied Physics Letters, 2005, 87, 112105.	1.5	127
215	Effective Color Tuning in Organic Light-Emitting Diodes Based on Aluminum Tris(5-aryl-8-hydroxyquinoline) Complexes. Advanced Materials, 2004, 16, 2001-2003.	11.1	117
216	On the mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene):poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	1,161

#	ARTICLE	IF	CITATIONS
217	Electrical transport in amorphous semiconducting AlMgB14 films. Applied Physics Letters, 2004, 85, 1181-1183.	1.5	27
218	Magnetic resonance studies of tris-(8-hydroxyquinoline) aluminum-based organic light-emitting devices. Physical Review B, 2004, 69, .	1.1	43
219	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. Applied Physics Letters, 2003, 83, 1.5 5359-5361.	1.5	169
220	Electroluminescence- and electrically-detected magnetic resonance studies of spin one-half-polaron and singlet-exciton dynamics in multilayer small molecular organic light-emitting devices. , 2002, , .		2