Ling Hong

List of Publications by Year in Descending Order

55 papers	5,472 citations	26 h-index	55 g-index
55 ext. papers	6,791 ext. citations	13.7 avg, IF	6.2 L-index

#	Paper	IF	Citations
55	Multi-Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layer-by-Layer Organic Solar Cells. *Small*, **2021**, 17, e2103497	11	14
54	Understanding the Effect of Sequential Deposition Processing for High-Efficient Organic Photovoltaics to Harvest Sunlight and Artificial Light. *ACS Applied Materials & Interfaces*, **2021**, 13, 20405-20416	9.5	7
53	Solvent Annealing Enables 15.39% Efficiency All-Small-Molecule Solar Cells through Improved Molecule Interconnection and Reduced Non-Radiative Loss. *Advanced Energy Materials*, **2021**, 11, 2100800	21.8	31
52	Crumple Durable Ultraflexible Organic Solar Cells with an Excellent Power-per-Weight Performance. *Advanced Functional Materials*, **2021**, 31, 2102694	15.6	24
51	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. *Small*, **2021**, 17, e2101133	11	10
50	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. *Materials Chemistry Frontiers*, **2021**, 5, 893-900	7.8	13
49	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2010535	15.6	26
48	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. *Advanced Energy Materials*, **2021**, 11, 2101705	21.8	51
47	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. *Advanced Materials*, **2021**, 33, e2103091	24	37
46	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. *Journal of Physical Chemistry C*, **2020**, 124, 7691-7698	3.8	11
45	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. *Angewandte Chemie - International Edition*, **2020**, 59, 9004-9010	16.4	74
44	Over 14% efficiency nonfullerene all-small-molecule organic solar cells enabled by improving the ordering of molecular donors via side-chain engineering. *Journal of Materials Chemistry A*, **2020**, 8, 7405-7411	13	50
43	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. *Advanced Materials*, **2020**, 32, e1908205	24	896
42	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. *Angewandte Chemie*, **2020**, 132, 9089-9095	3.6	17
41	Foldable Semitransparent Organic Solar Cells for Photovoltaic and Photosynthesis. *Advanced Energy Materials*, **2020**, 10, 2000136	21.8	71
40	Over 14% Efficiency Folding-Flexible ITO-free Organic Solar Cells Enabled by Eco-friendly Acid-Processed Electrodes. *IScience*, **2020**, 23, 100981	6.1	24
39	A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 1131-1137	13	48

38	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. *Journal of Materials Chemistry C*, **2020**, 8, 44-49	7.1	11
37	Organic photovoltaic cell with 17% efficiency and superior processability. *National Science Review*, **2020**, 7, 1239-1246	10.8	318
36	Recent advances in high-efficiency organic solar cells fabricated by eco-compatible solvents at relatively large-area scale. *APL Materials*, **2020**, 8, 120901	5.7	20
35	Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. *ACS Applied Materials & Interfaces*, **2020**, 12, 38815-38828	9.5	58
34	Chlorinated Carbon-Bridged and Silicon-Bridged Carbazole-Based Nonfullerene Acceptors Manifest Synergistic Enhancement in Ternary Organic Solar Cell with Efficiency over 15%. *Solar Rrl*, **2020**, 4, 2000357	7.1	13
33	1 cm Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. *Advanced Materials*, **2019**, 31, e1904512	24	87
32	A novel polymer donor based on dithieno[2,3-d:2?,3?-d??]benzo[1,2-b:4,5-b?]dithiophene for highly efficient polymer solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 2646-2652	13	23
31	Bendable and foldable flexible organic solar cells based on Ag nanowire films with 10.30% efficiency. *Journal of Materials Chemistry A*, **2019**, 7, 3737-3744	13	35
30	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. *Nature Communications*, **2019**, 10, 2515	17.4	1093
29	Significant Efficiency Improvement Enabled by CdSe/ZnS Quantum Dot Modifier in Organic Solar Cells. *Solar Rrl*, **2019**, 3, 1900117	7.1	5
28	Significant influence of halogenation on the energy levels and molecular configurations of polymers in DTBDT-based polymer solar cells. *Materials Chemistry Frontiers*, **2019**, 3, 1244-1252	7.8	13
27	14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. *Journal of the American Chemical Society*, **2019**, 141, 7743-7750	16.4	244
26	Enhanced □□Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. *Advanced Materials*, **2019**, 31, e1900477	24	69
25	Highly fluorescent anthracene derivative as a non-fullerene acceptor in OSCs with small non-radiative energy loss of 0.22 eV and high PCEs of over 13%. *Journal of Materials Chemistry A*, **2019**, 7, 10212-10216	13	21
24	Eco-Compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. *Advanced Materials*, **2019**, 31, e1903441	24	318
23	A Carbonylated Terthiophene-Based Twisted Polymer for Efficient Ternary Polymer Solar Cells. *Macromolecular Rapid Communications*, **2019**, 40, e1900246	4.8	6
22	Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. *Advanced Materials*, **2019**, 31, e1902302	24	311
21	Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 29124-29131	9.5	19

20	Efficient Organic Solar Cells with a High Open-Circuit Voltage of 1.34 V. *Chinese Journal of Chemistry*, **2019**, 37, 1153-1157	4.9	15
19	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. *Advanced Materials*, **2019**, 31, e1808356	24	314
18	Highly efficient and stable organic solar cell modules processed by blade coating with 5.6% module efficiency and active area of 216 cm2. *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 264-274	6.8	23
17	A Methodological Study on Tuning the Thermally Activated Delayed Fluorescent Performance by Molecular Constitution in Acridine-Benzophenone Derivatives. *Chemistry - an Asian Journal*, **2018**, 13, 1187-1191	4.5	9
16	Highly efficient non-fullerene polymer solar cells enabled by novel non-conjugated small-molecule cathode interlayers. *Journal of Materials Chemistry A*, **2018**, 6, 6327-6334	13	35
15	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. *Advanced Materials*, **2018**, 30, e1801801	24	299
14	Highly efficient polymer solar cells employing natural chlorophyllin as a cathode interfacial layer. *Journal of Materials Chemistry A*, **2018**, 6, 464-468	13	15
13	Ternary Nonfullerene Polymer Solar Cells with 12.16% Efficiency by Introducing One Acceptor with Cascading Energy Level and Complementary Absorption. *Advanced Materials*, **2018**, 30, 1703005	24	156
12	Selenopheno[3,2-b]thiophene-Based Narrow-Bandgap Nonfullerene Acceptor Enabling 13.3% Efficiency for Organic Solar Cells with Thickness-Insensitive Feature. *ACS Energy Letters*, **2018**, 3, 2967-2976	20.1	109
11	Multi-component non-fullerene acceptors with tunable bandgap structures for efficient organic solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 23644-23649	13	35
10	Design and application of volatilizable solid additives in non-fullerene organic solar cells. *Nature Communications*, **2018**, 9, 4645	17.4	130
9	Enhancing the Photovoltaic Performance of Nonfullerene Acceptors via Conjugated Rotatable End Groups. *Advanced Energy Materials*, **2018**, 8, 1802131	21.8	21
8	Highly Efficient Non-Fullerene Organic Solar Cells Using 4,8-Bis((2-ethylhexyl)oxy)benzo[1,2-b:4,5-b?]dithiophene-Based Polymers as Additives. *Macromolecules*, **2018**, 51, 4032-4039	5.5	7
7	All-Solution-Processed Metal-Oxide-Free Flexible Organic Solar Cells with Over 10% Efficiency. *Advanced Materials*, **2018**, 30, e1800075	24	127
6	Multifunctional emitters for efficient simplified non-doped blueish green organic light emitting devices with extremely low efficiency roll-off. *Journal of Materials Chemistry C*, **2017**, 5, 6527-6536	7.1	16
5	Non-Doped Sky-Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. *Chemistry - an Asian Journal*, **2017**, 12, 2189-2196	4.5	19
4	High-Performance Polymer Solar Cells Employing Rhodamines as Cathode Interfacial Layers. *ACS Applied Materials & Interfaces*, **2017**, 9, 27083-27089	9.5	14
3	Highly efficient polymer solar cells using a non-conjugated small-molecule zwitterion with enhancement of electron transfer and collection. *Journal of Materials Chemistry A*, **2016**, 4, 14944-14948	13	20

2	Highly efficient ultraviolet light-emitting organosoluble polyimide. *RSC Advances*, **2016**, 6, 70008-70011	3.7	1
1	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. *Energy and Environmental Science*,	35.4	39