# Ling Hong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8954539/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 55<br>papers | 8,005<br>citations | 136740<br>32<br>h-index | 155451<br>55<br>g-index |
| 55<br>all docs | 55<br>docs citations | 55<br>times ranked | 4616<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. Nature Communications, 2019, 10, 2515. | 5.8 | 1,431 |
| 2 | Singleâ€Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. Advanced Materials, 2020, 32, e1908205. | 11.1 | 1,407 |
| 3 | Ecoâ€Compatible Solventâ€Processed Organic Photovoltaic Cells with Over 16% Efficiency. Advanced Materials, 2019, 31, e1903441. | 11.1 | 445 |
| 4 | Organic photovoltaic cell with 17% efficiency and superior processability. National Science Review, 2020, 7, 1239-1246. | 4.6 | 443 |
| 5 | Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. Advanced Materials, 2019, 31, e1808356. | 11.1 | 388 |
| 6 | 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. | 6.6 | 379 |
| 7 | Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. Advanced Materials, 2019, 31, e1902302. | 11.1 | 364 |
| 8 | A Highly Efficient Nonâ€Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fineâ€Tuned Holeâ€Transporting Layer. Advanced Materials, 2018, 30, e1801801. | 11.1 | 360 |
| 9 | Design and application of volatilizable solid additives in non-fullerene organic solar cells. Nature Communications, 2018, 9, 4645. | 5.8 | 205 |
| 10 | 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. | 11.1 | 182 |
| 11 | Allâ€Solutionâ€Processed Metalâ€Oxideâ€Free Flexible Organic Solar Cells with Over 10% Efficiency. Advanced Materials, 2018, 30, e1800075. | 11.1 | 165 |
| 12 | Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie - International Edition, 2020, 59, 9004-9010. | 7.2 | 144 |
| 13 | 1 cm<sup>2</sup> Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. Advanced Materials, 2019, 31, e1904512. | 11.1 | 140 |
| 14 | 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. | 8.8 | 139 |
| 15 | 18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. Advanced Materials, 2021, 33, e2103091. | 11.1 | 136 |
| 16 | Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. ACS Applied Materials & Interfaces, 2020, 12, 38815-38828. | 4.0 | 126 |
| 17 | A Thiadiazoleâ€Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. Advanced Energy Materials, 2021, 11, 2101705. | 10.2 | 125 |
| 18 | Foldable Semitransparent Organic Solar Cells for Photovoltaic and Photosynthesis. Advanced Energy Materials, 2020, 10, 2000136. | 10.2 | 120 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910. | 15.6 | 116 |
| 20 | Enhanced Ï€â€“Ï€ Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. Advanced Materials, 2019, 31, e1900477. | 11.1 | 99 |
| 21 | Solvent Annealing Enables 15.39% Efficiency Allâ€Smallâ€Molecule Solar Cells through Improved Molecule Interconnection and Reduced Nonâ€Radiative Loss. Advanced Energy Materials, 2021, 11, 2100800. | 10.2 | 86 |
| 22 | Crumple Durable Ultraflexible Organic Solar Cells with an Excellent Powerâ€perâ€Weight Performance. Advanced Functional Materials, 2021, 31, 2102694. | 7.8 | 78 |
| 23 | 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. | 5.2 | 69 |
| 24 | A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1131-1137. | 5.2 | 65 |
| 25 | Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2010535. | 7.8 | 55 |
| 26 | Multiâ€Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layerâ€byâ€Layer Organic Solar Cells. Small, 2021, 17, e2103497. | 5.2 | 49 |
| 27 | Multi-component non-fullerene acceptors with tunable bandgap structures for efficient organic solar cells. Journal of Materials Chemistry A, 2018, 6, 23644-23649. | 5.2 | 47 |
| 28 | 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. | 5.2 | 47 |
| 29 | Recent advances in high-efficiency organic solar cells fabricated by eco-compatible solvents at relatively large-area scale. APL Materials, 2020, 8, . | 2.2 | 45 |
| 30 | 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. | 5.2 | 42 |
| 31 | Over 14% Efficiency Folding-Flexible ITO-free Organic Solar Cells Enabled by Eco-friendly Acid-Processed Electrodes. IScience, 2020, 23, 100981. | 1.9 | 40 |
| 32 | Highly efficient and stable organic solar cell modules processed by blade coating with 5.6% module efficiency and active area of 216Âcm<sup>2</sup>. Progress in Photovoltaics: Research and Applications, 2019, 27, 264-274. | 4.4 | 34 |
| 33 | Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Crossâ€Linkable Fullerene Derivative. Small, 2021, 17, e2101133. | 5.2 | 34 |
| 34 | Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. Materials Chemistry Frontiers, 2021, 5, 893-900. | 3.2 | 32 |
| 35 | A novel polymer donor based on dithieno[2,3-d:2â€²,3â€²-dâ€²â€²]benzo[1,2-b:4,5-bâ€²]dithiophene for highly efficient polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 2646-2652. | 5.2 | 26 |
| 36 | Nonâ€Doped Skyâ€Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. Chemistry - an Asian Journal, 2017, 12, 2189-2196. | 1.7 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Enhancing the Photovoltaic Performance of Nonfullerene Acceptors via Conjugated Rotatable End Groups. Advanced Energy Materials, 2018, 8, 1802131. | 10.2 | 24 |
| 38 | Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 29124-29131. | 4.0 | 24 |
| 39 | Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie, 2020, 132, 9089-9095. | 1.6 | 24 |
| 40 | Highly fluorescent anthracene derivative as a non-fullerene acceptor in OSCs with small non-radiative energy loss of 0.22ÂeV and high PCEs of over 13%. Journal of Materials Chemistry A, 2019, 7, 10212-10216. | 5.2 | 22 |
| 41 | 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. | 5.2 | 21 |
| 42 | 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. | 2.7 | 21 |
| 43 | Efficient Organic Solar Cells with a High Openâ€Circuit Voltage of 1.34 V. Chinese Journal of Chemistry, 2019, 37, 1153-1157. | 2.6 | 20 |
| 44 | Highly efficient polymer solar cells employing natural chlorophyllin as a cathode interfacial layer. Journal of Materials Chemistry A, 2018, 6, 464-468. | 5.2 | 19 |
| 45 | Chlorinated Carbonâ€Bridged and Siliconâ€Bridged Carbazoleâ€Based Nonfullerene Acceptors Manifest Synergistic Enhancement in Ternary Organic Solar Cell with Efficiency over 15%. Solar Rrl, 2020, 4, 2000357. | 3.1 | 19 |
| 46 | 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. | 4.0 | 19 |
| 47 | Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. Journal of Physical Chemistry C, 2020, 124, 7691-7698. | 1.5 | 18 |
| 48 | High-Performance Polymer Solar Cells Employing Rhodamines as Cathode Interfacial Layers. ACS Applied Materials & Interfaces, 2017, 9, 27083-27089. | 4.0 | 17 |
| 49 | TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. Journal of Materials Chemistry C, 2020, 8, 44-49. | 2.7 | 16 |
| 50 | 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. | 3.2 | 15 |
| 51 | A Methodological Study on Tuning the Thermally Activated Delayed Fluorescent Performance by Molecular Constitution in Acridineâ€“Benzophenone Derivatives. Chemistry - an Asian Journal, 2018, 13, 1187-1191. | 1.7 | 12 |
| 52 | Highly Efficient Non-Fullerene Organic Solar Cells Using 4,8-Bis((2-ethylhexyl)oxy)benzo[1,2-b:4,5-bâ€²]dithiophene-Based Polymers as Additives. Macromolecules, 2018, 51, 4032-4039. | 2.2 | 9 |
| 53 | Significant Efficiency Improvement Enabled by CdSe/ZnS Quantum Dot Modifier in Organic Solar Cells. Solar Rrl, 2019, 3, 1900117. | 3.1 | 9 |
| 54 | A Carbonylated Terthiopheneâ€“Based Twisted Polymer for Efficient Ternary Polymer Solar Cells. Macromolecular Rapid Communications, 2019, 40, e1900246. | 2.0 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Highly efficient ultraviolet light-emitting organosoluble polyimide. RSC Advances, 2016, 6, 70008-70011. | 1.7 | 2 |