Tengfei Li

List of Publications by Year
in descending order

59 papers	5,104 citations	136950 32 h-index	144013 57 g-index
59 all docs	59 docs citations	59 times ranked	4116 citing authors

#	Article	IF	Citations
1	A Facile Planar Fused-Ring Electron Acceptor for As-Cast Polymer Solar Cells with 8.71% Efficiency. Journal of the American Chemical Society, 2016, 138, 2973-2976.	13.7	885
2	Fused Nonacyclic Electron Acceptors for Efficient Polymer Solar Cells. Journal of the American Chemical Society, 2017, 139, 1336-1343.	13.7	813
3	Ultrafast and broadband photodetectors based on a perovskite/organic bulk heterojunction for large-dynamic-range imaging. Light: Science and Applications, 2020, 9, 31.	16.6	372
4	Fused Tris(thienothiophene)â€Based Electron Acceptor with Strong Nearâ€Infrared Absorption for Highâ€Performance Asâ€Cast Solar Cells. Advanced Materials, 2018, 30, 1705969.	21.0	340
5	Enhancing the Performance of Polymer Solar Cells via Core Engineering of NIRâ€Absorbing Electron Acceptors. Advanced Materials, 2018, 30, e1706571.	21.0	309
6	Structure Evolution of Oligomer Fusedâ€Ring Electron Acceptors toward High Efficiency of Asâ€Cast Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600854.	19.5	152
7	Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. ACS Nano, 2019, 13, 1071-1077.	14.6	134
8	Achieving Balanced Crystallinity of Donor and Acceptor by Combining Bladeâ€Coating and Ternary Strategies in Organic Solar Cells. Advanced Materials, 2018, 30, e1805041.	21.0	131
9	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	5.9	117
10	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	10.3	107
11	Ternary Organic Solar Cells with Small Nonradiative Recombination Loss. ACS Energy Letters, 2019, 4, 1196-1203.	17.4	101
12	Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. Energy and Environmental Science, 2020, 13, 5117-5125.	30.8	93
13	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. Advanced Materials, 2021, 33, e2008134.	21.0	91
14	Butterfly Effects Arising from Starting Materials in Fused-Ring Electron Acceptors. Journal of the American Chemical Society, 2020, 142, 20124-20133.	13.7	87
15	Assessing the energy offset at the electron donor/acceptor interface in organic solar cells through radiative efficiency measurements. Energy and Environmental Science, 2019, 12, 3556-3566.	30.8	69
16	Efficient Tandem Organic Photovoltaics with Tunable Rear Sub-cells. Joule, 2019, 3, 432-442.	24.0	65
17	Color and transparency-switchable semitransparent polymer solar cells towards smart windows. Science Bulletin, 2020, 65, 217-224.	9.0	60
18	Transparent Holeâ€Transporting Frameworks: A Unique Strategy to Design Highâ€Performance Semitransparent Organic Photovoltaics. Advanced Materials, 2020, 32, e2003891.	21.0	60

#	Article	IF	Citations
19	Highly Transparent Organic Solar Cells with Allâ€Nearâ€Infrared Photoactive Materials. Small Methods, 2019, 3, 1900424.	8.6	55
20	Efficient Quaternary Organic Solar Cells with Parallelâ€Alloy Morphology. Advanced Functional Materials, 2019, 29, 1806804.	14.9	53
21	A Scandium Complex Bearing Both Methylidene and Phosphinidene Ligands: Synthesis, Structure, and Reactivity. Organometallics, 2015, 34, 470-476.	2.3	50
22	Fast Response Organic Tandem Photodetector for Visible and Nearâ€Infrared Digital Optical Communications. Small, 2021, 17, e2101316.	10.0	49
23	Efficient fullerene-free organic solar cells based on fused-ring oligomer molecules. Journal of Materials Chemistry A, 2016, 4, 1486-1494.	10.3	48
24	Asymmetric Glycolated Substitution for Enhanced Permittivity and Ecocompatibility of High-Performance Photovoltaic Electron Acceptor. Jacs Au, 2021, 1, 1733-1742.	7.9	47
25	Enhancing the performance of the electron acceptor ITIC-Th via tailoring its end groups. Materials Chemistry Frontiers, 2018, 2, 537-543.	5.9	46
26	Highâ€Efficiency Perovskite Quantum Dot Hybrid Nonfullerene Organic Solar Cells with Nearâ€Zero Driving Force. Advanced Materials, 2020, 32, e2002066.	21.0	46
27	Light Harvesting at Oblique Incidence Decoupled from Transmission in Organic Solar Cells Exhibiting 9.8% Efficiency and 50% Visible Light Transparency. Advanced Energy Materials, 2020, 10, 1904196.	19.5	46
28	High-Sensitivity Visibleâ€“Near Infrared Organic Photodetectors Based on Non-Fullerene Acceptors. ACS Applied Materials & Interfaces, 2020, 12, 17769-17775.	8.0	44
29	High-performance organic solar cells based on polymer donor/small molecule donor/nonfullerene acceptor ternary blends. Journal of Materials Chemistry A, 2019, 7, 2268-2274.	10.3	42
30	Black Phosphorous Quantum Dots Sandwiched Organic Solar Cells. Small, 2019, 15, e1903977.	10.0	41
31	High-Performance Mid-Bandgap Fused-Pyrene Electron Acceptor. Chemistry of Materials, 2019, 31, 6484-6490.	6.7	40
32	Stability: next focus in organic solar cells based on non-fullerene acceptors. Materials Chemistry Frontiers, 2021, 5, 2907-2930.	5.9	39
33	Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene. Journal of Materials Chemistry C, 2018, 6, 66-71.	5.5	38
34	High-performance ternary organic solar cells with photoresponses beyond 1000 nm. Journal of Materials Chemistry A, 2018, 6, 24210-24215.	10.3	31
35	Side-Chain Engineering of Benzodithiophene-Bridged Dimeric Porphyrin Donors for All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 41506-41514.	8.0	30
36	ITCâ€2Cl: A Versatile Middleâ€Bandgap Nonfullerene Acceptor for Highâ€Efficiency Panchromatic Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900377.	5.8	29

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37	Advances in Organic Photovoltaics. Acta Chimica Sinica, 2021, 79, 257.	1.4	28
38	An amino-substituted perylene diimide polymer for conventional perovskite solar cells. Materials Chemistry Frontiers, 2017, 1, 2078-2084.	5.9	26
39	Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 1111-1118.	5.1	26
40	Inverse Optical Cavity Design for Ultrabroadband Light Absorption Beyond the Conventional Limit in Lowâ€Bandgap Nonfullerene Acceptorâ€“Based Solar Cells. Advanced Energy Materials, 2019, 9, 1900463.	19.5	24
41	Highly Conjugated, Fused-Ring, Quadrupolar Organic Chromophores with Large Two-Photon Absorption Cross-Sections in the Near-Infrared. Journal of Physical Chemistry A, 2020, 124, 4367-4378.	2.5	20
42	Intrinsically inert hyperbranched interlayer for enhanced stability of organic solar cells. Science Bulletin, 2022, 67, 171-177.	9.0	20
43	Facile synthesis of high-performance nonfullerene acceptor isomers via a one stone two birds strategy. Journal of Materials Chemistry A, 2019, 7, 20667-20674.	10.3	19
44	Enhancing the J_{SC} of P3HT-Based OSCs via a Thiophene-Fused Aromatic Heterocycle as a â€œÏ€-Bridgeâ€•for Aâ^Ï€â€“Dâ^Ï€â€“A-Type Acceptors. ACS Applied Materials & Interfaces, 2019, 11, 26005-26016.	8.0	19
45	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 43984-43991.	8.0	19
46	Integrated Perovskite/Organic Photovoltaics with Ultrahigh Photocurrent and Photoresponse Approaching 1000â€‰nm. Solar Rrl, 2020, 4, 2000140.	5.8	19
47	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogenâ€Substitution for Sensitive Near Infrared Detection. Advanced Materials, 2022, 34, e2201600.	21.0	19
48	Cracking perylene diimide backbone for fullerene-free polymer solar cells. Dyes and Pigments, 2016, 128, 226-234.	3.7	18
49	Z-Shaped Fused-Chrysene Electron Acceptors for Organic Photovoltaics. ACS Applied Materials & Interfaces, 2019, 11, 33006-33011.	8.0	18
50	Nonfullerene acceptor with strong near-infrared absorption for polymer solar cells. Dyes and Pigments, 2017, 137, 553-559.	3.7	14
51	Towards High-Performance Semitransparent Organic Photovoltaics: Dual-Functional p-Type Soft Interlayer. ACS Nano, 2022, 16, 1231-1238.	14.6	12
52	Comparison of Fused-Ring Electron Acceptors with One- and Multidimensional Conformations. ACS Applied Materials & Interfaces, 2020, 12, 23976-23983.	8.0	10
53	A thiophene-fused benzotriazole unit as a â€œÏ€-bridgeâ€•in A-Ï€-D-Ï€-A type acceptor to achieve more balanced JSC and VOC for OSCs. Organic Electronics, 2020, 82, 105705.	2.6	10
54	Co²⁺-Tuned Tin Oxide Interfaces for Enhanced Stability of Organic Solar Cells. Langmuir, 2021, 37, 3173-3179.	3.5	7

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55	Bayâ€annulated indigo based nearâ€infrared sensitive polymer for organic solar cells. Journal of Polymer Science Part A, 2018, 56, 213-220.	2.3	6
56	New roles of fused-ring electron acceptors in organic solar cells. Journal of Materials Chemistry A, 2019, 7, 4766-4770.	10.3	5
57	Effects of Terminal Groups in Third Components on Performance of Organic Solar Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 275-283.	4.9	3
58	Transparent Solar Cells: Light Harvesting at Oblique Incidence Decoupled from Transmission in Organic Solar Cells Exhibiting 9.8% Efficiency and 50% Visible Light Transparency (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	19.8	2
59	Effects of Thieno[3,2-b]thiophene Number on Narrow-Bandgap Fused-Ring Electron Acceptors. Chinese Journal of Polymer Science (English Edition), 0, , .	3.8	1