Yuanbao Lin

List of Publications by Year
in descending order

37 papers	4,476 citations	236925 25 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	5187 citing authors

#	Article	IF	Citations
1	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	39.5	894
2	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS₂ as a Replacement for PEDOT:PSS. Advanced Materials, 2019, 31, e1902965.	21.0	500
3	Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. ACS Energy Letters, 2020, 5, 2935-2944.	17.4	425
4	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2021, 20, 378-384.	27.5	257
5	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. ACS Energy Letters, 2020, 5, 3663-3671.	17.4	253
6	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	24.0	222
7	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	17.4	208
8	Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, 5220.	12.8	204
9	17.1% Efficient Singleâ€Junction Organic Solar Cells Enabled by nâ€Type Doping of the Bulkâ€Heterojunction. Advanced Science, 2020, 7, 1903419.	11.2	173
10	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	30.8	170
11	Doping Approaches for Organic Semiconductors. Chemical Reviews, 2022, 122, 4420-4492.	47.7	153
12	18.4â€‰% Organic Solar Cells Using a High Ionization Energy Selfâ€Assembled Monolayer as Holeâ€Extraction Interlayer. ChemSusChem, 2021, 14, 3569-3578.	6.8	121
13	Liquid phase exfoliation of MoS₂ and WS₂ in aqueous ammonia and their application in highly efficient organic solar cells. Journal of Materials Chemistry C, 2020, 8, 5259-5264.	5.5	109
14	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. Advanced Energy Materials, 2018, 8, 1701942.	19.5	99
15	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	16.0	97
16	Stretchable and Transparent Conductive PEDOT:PSSâ€Based Electrodes for Organic Photovoltaics and Strain Sensors Applications. Advanced Functional Materials, 2020, 30, 2001251.	14.9	88
17	Colorful semitransparent polymer solar cells employing a bottom periodic one-dimensional photonic crystal and a top conductive PEDOT:PSS layer. Journal of Materials Chemistry A, 2016, 4, 11821-11828.	10.3	53
18	A Highly Conductive Titanium Oxynitride Electronâ€Selective Contact for Efficient Photovoltaic Devices. Advanced Materials, 2020, 32, e2002608.	21.0	46

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19	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. Nano Energy, 2018, 46, 428-435.	16.0	45
20	Use of the Phenâ€NaDPO:Sn(SCN)₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905810.	14.9	41
21	Novel wide-bandgap non-fullerene acceptors for efficient tandem organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1164-1175.	10.3	39
22	Study of ITO-free roll-to-roll compatible polymer solar cells using the one-step doctor blading technique. Journal of Materials Chemistry A, 2017, 5, 4093-4102.	10.3	36
23	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	6.7	35
24	Polymer solar cells spray coated with non-halogenated solvents. Solar Energy Materials and Solar Cells, 2017, 161, 52-61.	6.2	27
25	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. ACS Applied Materials & Interfaces, 2018, 10, 22485-22494.	8.0	27
26	Dual Function of UV/Ozone Plasma-Treated Polymer in Polymer/Metal Hybrid Electrodes and Semitransparent Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 44656-44666.	8.0	25
27	Lowâ€Voltage Heterojunction Metal Oxide Transistors via Rapid Photonic Processing. Advanced Electronic Materials, 2020, 6, 2000028.	5.1	25
28	Oneâ€Step Bladeâ€Coated Highly Efficient Nonfullerene Organic Solar Cells with a Selfâ€Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. Solar Rrl, 2019, 3, 1900179.	5.8	19
29	Manipulate Micrometer Surface and Nanometer Bulk Phase Separation Structures in the Active Layer of Organic Solar Cells via Synergy of Ultrasonic and High-Pressure Gas Spraying. ACS Applied Materials & Interfaces, 2019, 11, 10777-10784.	8.0	17
30	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. ACS Applied Materials & Interfaces, 2020, 12, 31591-31600.	8.0	16
31	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. ACS Energy Letters, 2020, 5, 3692-3701.	17.4	15
32	Rapid and up-scalable manufacturing of gigahertz nanogap diodes. Nature Communications, 2022, 13, .	12.8	11
33	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. ACS Applied Materials & Interfaces, 2021, 13, 51592-51601.	8.0	9
34	Improved performance of deep-blue polymer light-emitting diodes by one-step coating self-assembly hole injection/transport nanocomposites with both the optical and electrical optimization. Organic Electronics, 2017, 45, 285-292.	2.6	8
35	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. Journal of Materials Chemistry C, 2021, 9, 3129-3135.	5.5	6
36	Ultrafast Energy Transfer Triggers Ionization Energy Offset Dependence of Quantum Efficiency in Low-bandgap Non-fullerene Acceptor Solar Cells. , 0, , .		0

#	Article	IF	Citations
37	Aqueous ammonia-based exfoliation of two dimensional MoS2 and WS2 and their application in non-fullerene organic solar cells. , 0, , .		0