Yan-Ru Lin

List of Publications by Year
in descending order

54 papers	1,443 citations	304743 22 h-index	345221 36 g-index
57 all docs	57 docs citations	57 times ranked	2506 citing authors

#	Article	IF	Citations
1	A multifunctional ligand for defect passivation of perovskite film realizes air-stable perovskite solar cells with efficiencies exceeding 20%. Sustainable Energy and Fuels, 2022, 6, 1950-1958.	4.9	6
2	Realizing Broadband NIR Photodetection and Ultrahigh Responsivity with Ternary Blend Organic Photodetector. Nanomaterials, 2022, 12, 1378.	4.1	7
3	Co2+-Doped BiOBrxCl1-x hierarchical microspheres display enhanced visible-light photocatalytic performance in the degradation of rhodamine B and antibiotics and the inactivation of E. coli. Journal of Hazardous Materials, 2021, 402, 123457.	12.4	30
4	Facile star-shaped tetraphenylethylene-based molecules with fused ring-terminated diarylamine as interfacial hole transporting materials for inverted perovskite solar cells. Materials Chemistry Frontiers, 2021, 5, 1373-1387.	5.9	11
5	Improved Blend Film Morphology and Free Carrier Generation Provide a High-Performance Ternary Polymer Solar Cell. ACS Applied Materials & Interfaces, 2021, 13, 1076-1085.	8.0	62
6	Synergistic improvements in the performance and stability of inverted planar MAPbI₃-based perovskite solar cells incorporating benzylammonium halide salt additives. Materials Chemistry Frontiers, 2021, 5, 3378-3387.	5.9	18
7	Realizing Stable Highâ€Performance and Lowâ€Energyâ€Loss Ternary Photovoltaics through Judicious Selection of the Third Component. Solar Rrl, 2021, 5, 2100450.	5.8	18
8	Indacenodithiophene-based N-type conjugated polymers provide highly thermally stable ternary organic photovoltaics displaying a performance of 17.5%. Journal of Materials Chemistry A, 2021, 9, 9780-9790.	10.3	23
9	Small Molecules with Controllable Molecular Weights Passivate Surface Defects in Airâ€Stable pâ€iâ€n Perovskite Solar Cells. Advanced Electronic Materials, 2021, 7, 2000870.	5.1	18
10	Forming a Metal-Free Oxidatively Coupled Agent, Bicarbazole, as a Defect Passivation for HTM and an Interfacial Layer in a pâ€"iâ€"n Perovskite Solar Cell Exhibits Nearly 20% Efficiency. Chemistry of Materials, 2020, 32, 127-138.	6.7	22
11	Triphenylamine dibenzofulveneâ€"derived dopantâ€free hole transporting layer induces micrometerâ€sized perovskite grains for highly efficient near 20% for pâ€iâ€n perovskite solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 49-59.	8.1	24
12	Two-step annealing of NiO enhances the NiO â€"perovskite interface for high-performance ambient-stable pâ€"iâ€"n perovskite solar cells. Applied Surface Science, 2020, 504, 144478.	6.1	25
13	A Nearâ€Infrared Absorption Small Molecule Acceptor for Highâ€Performance Semitransparent and Colorful Binary and Ternary Organic Photovoltaics. ChemSusChem, 2020, 13, 903-913.	6.8	37
14	Surface properties of buffer layers affect the performance of PM6:Y6â€"based organic photovoltaics. Organic Electronics, 2020, 87, 105944.	2.6	19
15	Perovskite Photosensors Integrated with Silver Resonantâ€Cavity Color Filters Display Color Perception Beyond That of the Human Eye. Advanced Functional Materials, 2020, 30, 2002503.	14.9	19
16	High-Performance Semitransparent Organic Photovoltaics Featuring a Surface Phase-Matched Transmission-Enhancing Ag/ITO Electrode. ACS Applied Materials & Interfaces, 2020, 12, 39496-39504.	8.0	32
17	Recent Progress on Advanced Optical Structures for Emerging Photovoltaics and Photodetectors. Advanced Energy and Sustainability Research, 2020, 1, 2000035.	5.8	11
18	Defect Passivation by Amide-Based Hole-Transporting Interfacial Layer Enhanced Perovskite Grain Growth for Efficient pâ€"iâ€"n Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 40050-40061.	8.0	46

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19	Photovoltaic Performance Enhancement of Perovskite Solar Cells Using Polyimide and Polyamic Acid as Additives. Journal of Physical Chemistry C, 2019, 123, 23826-23833.	3.1	17
20	The green poly-lysine enantiomers as electron-extraction layers for high performance organic photovoltaics. Journal of Materials Chemistry C, 2019, 7, 12572-12579.	5.5	15
21	Enhanced Device Performance and Stability of Organic Photovoltaics Incorporating a Star-Shaped Multifunctional Additive. ACS Applied Energy Materials, 2019, 2, 833-843.	5.1	14
22	Si-Bridged Ladder-Type Small-Molecule Acceptors for High-Performance Organic Photovoltaics. ACS Applied Materials & Interfaces, 2019, 11, 1125-1134.	8.0	15
23	Carbonized Bambooâ€Derived Carbon Nanodots as Efficient Cathode Interfacial Layers in Highâ€Performance Organic Photovoltaics. Advanced Materials Interfaces, 2018, 5, 1800031.	3.7	13
24	Embedding a Diketopyrrolopyrrole-Based Cross-linking Interfacial Layer Enhances the Performance of Organic Photovoltaics. ACS Applied Materials & Interfaces, 2018, 10, 8885-8892.	8.0	15
25	Microcavity Structure Provides Highâ€Performance (>8.1%) Semitransparent and Colorful Organic Photovoltaics. Advanced Functional Materials, 2018, 28, 1703398.	14.9	48
26	Facilitating epitaxial growth of ZnO films on patterned GaN layers: A solution-concentration-induced successive lateral growth mechanism. Current Applied Physics, 2018, 18, 1-11.	2.4	7
27	Perovskite Solar Cells: Carbon Nanodot Additives Realize Highâ€Performance Airâ€Stable pâ€“iâ€“n Perovskite Solar Cells Providing Efficiencies of up to 20.2% (Adv. Energy Mater. 34/2018). Advanced Energy Materials, 2018, 8, 1870147.	19.5	3
28	Efficient Ternary Organic Photovoltaics Using Two Conjugated Polymers and a Nonfullerene Acceptor with Complementary Absorption and Cascade Energy-Level Alignment. Journal of Physical Chemistry C, 2018, 122, 24585-24591.	3.1	13
29	Carbon Nanodot Additives Realize Highâ€Performance Airâ€Stable pâ€“iâ€“n Perovskite Solar Cells Providing Efficiencies of up to 20.2%. Advanced Energy Materials, 2018, 8, 1802323.	19.5	86
30	The Twisted Benzo[<i>ghi</i>]â€Perylenetriimide Dimer as a 3D Electron Acceptor for Fullereneâ€Free Organic Photovoltaics. Chemistry - A European Journal, 2018, 24, 17590-17597.	3.3	9
31	Low-temperature, simple and efficient preparation of perovskite solar cells using Lewis bases urea and thiourea as additives: stimulating large grain growth and providing a PCE up to 18.8%. RSC Advances, 2018, 8, 19610-19615.	3.6	54
32	Facilely Synthesized spiro[fluoreneâ€9,9â€²â€phenanthrenâ€10â€²â€one] in Donorâ€“Acceptorâ€“Donor Holeâ€Transporting Materials for Perovskite Solar Cells. ChemSusChem, 2018, 11, 3225-3233.	6.8	47
33	Novel Facilely Synthesized spiro[Fluorene-9,9â€²-phenanthren-10â€²-one] in D-A-D Hole-transporting Materials for Perovskite Solar Cells. , 2018, , .		0
34	Simple structured polyetheramines, Jeffamines, as efficient cathode interfacial layers for organic photovoltaics providing power conversion efficiencies up to 9.1%. Journal of Materials Chemistry A, 2017, 5, 10424-10429.	10.3	36
35	Highly Efficient Non-Fullerene Organic Photovoltaics Processed from <i>o</i>-Xylene without Using Additives. Journal of Physical Chemistry C, 2017, 121, 21969-21974.	3.1	29
36	Intrinsically Stretchable Nanostructured Silver Electrodes for Realizing Efficient Strain Sensors and Stretchable Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 27853-27862.	8.0	31

#	ARTICLE	IF	CITATIONS
37	Effects of the additives <i>n</i>-propylammonium or <i>n</i>-butylammonium iodide on the performance of perovskite solar cells. RSC Advances, 2017, 7, 55986-55992.	3.6	12
38	Comprehensive Study on Chemical and Hot Press-Treated Silver Nanowires for Efficient Polymer Solar Cell Application. Polymers, 2017, 9, 635.	4.5	14
39	Semitransparent, easily tunable vivid colorful perovskite solar cells featuring Ag/ITO/Ag microcavity structures. , 2016, , .		1
40	Highly Efficient Inverted Organic Photovoltaics Containing Aliphatic Hyperbranched Polymers as Cathode Modified Layers. Macromolecules, 2016, 49, 7837-7843.	4.8	23
41	High-Performance, Semitransparent, Easily Tunable Vivid Colorful Perovskite Photovoltaics Featuring Ag/ITO/Ag Microcavity Structures. Journal of Physical Chemistry C, 2016, 120, 4233-4239.	3.1	67
42	Organic Photovoltaics: Highly Thermal Stable and Efficient Organic Photovoltaic Cells with Crosslinked Networks Appending Open-Cage Fullerenes as Additives (Adv. Funct. Mater. 2/2015). Advanced Functional Materials, 2015, 25, 206-206.	14.9	1
43	Highly Thermal Stable and Efficient Organic Photovoltaic Cells with Crosslinked Networks Appending Openâ€Cage Fullerenes as Additives. Advanced Functional Materials, 2015, 25, 207-213.	14.9	46
44	High-performance and high-durability perovskite photovoltaic devices prepared using ethylammonium iodide as an additive. Journal of Materials Chemistry A, 2015, 3, 9271-9277.	10.3	87
45	One-pot synthesis of colloidal Cdx:CuInS2 quaternary quantum dots used as sensitizers in photovoltaic cells. RSC Advances, 2015, 5, 36605-36613.	3.6	9
46	Thermally evaporable 5,10-dihydroindeno[2,1-a]indenes form efficient interfacial layers in organic solar cells. RSC Advances, 2015, 5, 7897-7904.	3.6	13
47	Epitaxial Growth of ZnO Films on Patternedc-Plane GaN Layer Using Hydrothermal Method. ECS Journal of Solid State Science and Technology, 2015, 4, N111-N116.	1.8	3
48	Polythiophenes Comprising Conjugated Pendants for Polymer Solar Cells: A Review. Materials, 2014, 7, 2411-2439.	2.9	56
49	Two-step thermal annealing improves the morphology of spin-coated films for highly efficient perovskite hybrid photovoltaics. Nanoscale, 2014, 6, 10281-10288.	5.6	105
50	Polythiophenes comprising conjugated pendants toward long-term air-stable inverted polymer solar cells with high open circuit voltages. Journal of Materials Chemistry A, 2013, 1, 8950.	10.3	9
51	Increased open circuit voltage in a fluorinated quinoxaline-based alternating conjugated polymer. Polymer Chemistry, 2013, 4, 1161-1166.	3.9	52
52	Increasing the Openâ€Circuit Voltage in Highâ€Performance Organic Photovoltaic Devices through Conformational Twisting of an Indacenodithiopheneâ€Based Conjugated Polymer. Macromolecular Rapid Communications, 2013, 34, 1623-1628.	3.9	32
53	New selenophene-based low-band gap conjugated polymers for organic photovoltaics. Journal of Polymer Science Part A, 2013, 51, 4550-4557.	2.3	10
54	Tip Shaping for ZnO Nanorods via Hydrothermal Growth of ZnO Nanostructures in a Stirred Aqueous Solution. Crystal Growth and Design, 2012, 12, 3849-3855.	3.0	23