

Hui Lin

List of Publications by Year in descending order

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50
papers

1,131
citations

361413

20
h-index

414414

32
g-index

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all docs

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docs citations

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times ranked

1212
citing authors

#	ARTICLE	IF	CITATIONS
1	Delayed Fluorescence Emitter Enables Near 17% Efficiency Ternary Organic Solar Cells with Enhanced Storage Stability and Reduced Recombination Energy Loss. <i>Advanced Functional Materials</i> , 2020, 30, 1909837.	14.9	108
2	Control of Dual Conformations: Developing Thermally Activated Delayed Fluorescence Emitters for Highly Efficient Single-Emitter White Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31515-31525.	8.0	88
3	Thermally activated delayed fluorescence exciplex emitters for high-performance organic light-emitting diodes. <i>Materials Horizons</i> , 2021, 8, 401-425.	12.2	81
4	Novel small-molecule electron donor for solution-processed ternary exciplex with 24% external quantum efficiency in organic light-emitting diode. <i>Materials Horizons</i> , 2019, 6, 1425-1432.	12.2	69
5	Hydrogen Bond Induced Green Solvent Processed High Performance Ternary Organic Solar Cells with Good Tolerance on Film Thickness and Blend Ratios. <i>Advanced Functional Materials</i> , 2019, 29, 1902078.	14.9	60
6	Blue and white solution-processed TADF-OLEDs with over 20% EQE, low driving voltages and moderate efficiency decrease based on interfacial exciplex hosts. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11806-11812.	5.5	51
7	Tricomponent Exciplex Emitter Realizing over 20% External Quantum Efficiency in Organic Light-Emitting Diode with Multiple Reverse Intersystem Crossing Channels. <i>Advanced Science</i> , 2019, 6, 1801938.	11.2	39
8	Modulating the molecular packing and distribution enables fullerene-free ternary organic solar cells with high efficiency and long shelf-life. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20139-20150.	10.3	38
9	Hydrogen bond induced high performance ternary fullerene-free organic solar cells with increased current density and enhanced stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9691-9702.	5.5	35
10	High performance opaque and semi-transparent organic solar cells with good tolerance to film thickness realized by a unique solid additive. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7437-7450.	10.3	34
11	Ternary Organic Solar Cells with Coumarin7 as the Donor Exhibiting Greater Than 10% Power Conversion Efficiency and a High Fill Factor of 75%. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29907-29916.	8.0	32
12	Photomemory and Pulse Monitoring Featured Solution-Processed Near-Infrared Graphene/Organic Phototransistor with Detectivity of 2.4×10^{13} Jones. <i>Advanced Functional Materials</i> , 2021, 31, 2103988.	14.9	31
13	Excimer emission induced intra-system self-absorption enhancement – a novel strategy to realize high efficiency and excellent stability ternary organic solar cells processed in green solvents. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23840-23855.	10.3	30
14	Hydrogen bond induced high-performance quaternary organic solar cells with efficiency up to 17.48% and superior thermal stability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3850-3858.	5.9	28
15	Hydrogen-Bond-Induced High Performance Semitransparent Ternary Organic Solar Cells with 14% Efficiency and Enhanced Stability. <i>Advanced Optical Materials</i> , 2021, 9, 2100064.	7.3	26
16	Hydrogen-Bond-Assisted Exciplex Emitters Realizing Improved Efficiencies and Stabilities in Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2010100.	14.9	23
17	Hydrogen-Bonding Strategy to Optimize Charge Distribution of PC ₇₁ BM and Enable a High Efficiency of 12.45% for Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800038.	5.8	22
18	Highly efficient ternary polymer-based solution-processable exciplex with over 20% external quantum efficiency in organic light-emitting diode. <i>Organic Electronics</i> , 2020, 76, 105449.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Development of Red Exciplex for Efficient OLEDs by Employing a Phosphor as a Component. <i>Frontiers in Chemistry</i> , 2019, 7, 16.	3.6	21
20	Ternary System with Intermolecular Hydrogen Bond: Efficient Strategy to High-Performance Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15598-15606.	8.0	21
21	A novel orange-red thermally activated delayed fluorescence emitter with high molecular rigidity and planarity realizing 32.5% external quantum efficiency in organic light-emitting diodes. <i>Materials Horizons</i> , 2022, 9, 2425-2432.	12.2	21
22	Improving Efficiency of Red Thermally Activated Delayed Fluorescence Emitter by Introducing Quasi-Degenerate Orbital Distribution. <i>Chinese Journal of Chemistry</i> , 2022, 40, 911-917.	4.9	20
23	Additive-Induced Vertical Component Distribution Enables High-Performance Sequentially Cast Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25842-25850.	8.0	20
24	Fullerene's ring: A new strategy to improve the performance of fullerene organic solar cells. <i>Organic Electronics</i> , 2020, 83, 105747.	2.6	19
25	High performance low-voltage organic field-effect transistors enabled by solution processed alumina and polymer bilayer dielectrics. <i>Synthetic Metals</i> , 2015, 209, 337-342.	3.9	17
26	Ternary organic solar cells with a phase-modulated surface distribution via the addition of a small molecular luminescent dye to obtain a high efficiency over 10.5%. <i>Nanoscale</i> , 2018, 10, 16455-16467.	5.6	15
27	Non-fullerene acceptor alloy strategy enabling stable ternary polymer solar cells with efficiency of 17.74%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3207-3216.	5.5	15
28	Delayed fluorescence material-assisted high performance ternary organic solar cells realized by prolonged exciton lifetime and diffusion length. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17429-17439.	5.5	14
29	High-Efficiency Sequentially Cast Organic Solar Cells Enabled by Dual Solvent-Controlled Polymer Aggregation. <i>Solar Rrl</i> , 2022, 6, .	5.8	14
30	π-π stacking induced high current density and improved efficiency in ternary organic solar cells. <i>Nanoscale</i> , 2018, 10, 9971-9980.	5.6	12
31	Efficient Exciplex-based Green and Near-Infrared Organic Light-Emitting Diodes Employing a Novel Donor-Acceptor Type Donor. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4093-4097.	3.3	10
32	Morphology optimization of organic solar cells enabled by interface engineering of zinc oxide layer with a conjugated organic material. <i>Organic Electronics</i> , 2021, 91, 106065.	2.6	10
33	Ternary organic solar cells with enhanced charge transfer and stability combining the advantages of polymer acceptors and fullerene acceptors. <i>Organic Electronics</i> , 2022, 104, 106471.	2.6	10
34	Introducing Trifluoromethyl to Strengthen Hydrogen Bond for High Efficiency Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 190.	3.6	9
35	Critical impact of gate dielectric interfaces on the trap states and cumulative charge of high-performance organic thin field transistors. <i>Materials Science in Semiconductor Processing</i> , 2019, 91, 275-280.	4.0	8
36	An universal morphology regulator for efficient and stable nonfullerene organic solar cells by π-π interaction. <i>Organic Electronics</i> , 2020, 86, 105827.	2.6	8

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37	Novel triazine derivatives with deep LUMO energy levels as the electron-accepting components of exciplexes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 939-946.	5.5	8
38	Solution-processable alumina: PVP nanocomposite dielectric layer for high-performance organic thin-film transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	6
39	Non-ionic surfactant-novel agents to realize high efficiency non-fullerene opaque and semitransparent organic solar cells with Enhanced Stability. <i>Organic Electronics</i> , 2018, 62, 195-202.	2.6	5
40	Novel donor-spacer-acceptor compound as the multifunctional component of exciplexes for efficient organic light-emitting diodes. <i>Science China Materials</i> , 2022, 65, 460-468.	6.3	5
41	X-Band Ferrite Microstrip Limiter Based on Improved Nonlinear Loss Model for High-Power Microwave Application. <i>IEEE Microwave and Wireless Components Letters</i> , 2022, 32, 1015-1018.	3.2	5
42	Improving performance of thermally activated delayed fluorescence emitter by extending its LUMO distribution. <i>Science China Materials</i> , 2019, 62, 719-728.	6.3	4
43	Study on QCM Mass Sensitivity for Different Electrode Structures. , 2018, , .		3
44	High performance organic solar cells based on ZnO: POT2T as an effective cathode interfacial layer. <i>Journal of Physics: Conference Series</i> , 2020, 1549, 042015.	0.4	3
45	Efficient and stable single-emitting-layer white organic light-emitting diodes by employing all thermally activated delayed fluorescence emitters. <i>Organic Electronics</i> , 2022, 101, 106415.	2.6	3
46	Hydrogen-bond-induced cathode engineering interface achieving high-efficiency organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6358-6364.	5.5	3
47	Pyrene-Imidazole Based Aggregation Modifier Leads to Enhancement in Efficiency and Environmental Stability for Ternary Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 578.	3.6	2
48	Achieving efficient and stable organic solar cells by using polyethylene glycol to modulate the crystallization and distribution of the active layer. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065502.	2.8	1
49	Novel D-A structure thermally activated delayed fluorescence emitters realizing over 20% external quantum efficiencies in both evaporation- and solution-processed organic light-emitting diodes. <i>Organic Electronics</i> , 2021, 99, 106312.	2.6	1
50	Blocking Energy-Loss Pathways for Efficient All-Fluorescent Solution-processed Organic Light-emitting Diodes by Introducing Polymer Additive. <i>Journal of Physics: Conference Series</i> , 2022, 2174, 012030.	0.4	1