

Yong Hua

List of Publications by Year in descending order

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33
papers

2,051
citations

304602

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A low-cost spiro[fluorene-9,9'-xanthene]-based hole transport material for highly efficient solid-state dye-sensitized solar cells and perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 873-877.	15.6	362
2	Tailor-Making Low-Cost Spiro[fluorene-9,9'-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. <i>CheM</i> , 2017, 2, 676-687.	5.8	222
3	Progress of the key materials for organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 758-765.	4.2	158
4	Charge-transport layer engineering in perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 1237-1241.	4.3	115
5	Facile synthesis of fluorene-based hole transport materials for highly efficient perovskite solar cells and solid-state dye-sensitized solar cells. <i>Nano Energy</i> , 2016, 26, 108-113.	8.2	103
6	D- and D-Typed Hole Transport Materials for Efficient Perovskite Solar Cells: Tuning Photovoltaic Properties via the Acceptor Group. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19697-19703.	4.0	101
7	Study of Arylamine-Substituted Porphyrins as Hole-Transporting Materials in High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13231-13239.	4.0	97
8	High conductivity Ag-based metal organic complexes as dopant-free hole-transport materials for perovskite solar cells with high fill factors. <i>Chemical Science</i> , 2016, 7, 2633-2638.	3.7	89
9	Cyclopenta[<i>h</i>]aceanthrylene-based dopant-free hole-transport material for organic-inorganic hybrid and all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5221-5226.	5.2	88
10	The Role of 3D Molecular Structural Control in New Hole Transport Materials Outperforming Spiro-OMeTAD in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1601062.	10.2	87
11	A two-terminal all-inorganic perovskite/organic tandem solar cell. <i>Science Bulletin</i> , 2019, 64, 885-887.	4.3	76
12	Incorporation of Counter Ions in Organic Molecules: New Strategy in Developing Dopant-Free Hole Transport Materials for Efficient Mixed-Ion Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602736.	10.2	72
13	Interfacial Defect Passivation and Charge Carrier Management for Efficient Perovskite Solar Cells via a Highly Crystalline Small Molecule. <i>ACS Energy Letters</i> , 2021, 6, 4209-4219.	8.8	63
14	Understanding the Effects of Fluorine Substitution in Lithium Salt on Photovoltaic Properties and Stability of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2218-2228.	8.8	51
15	Importance of terminated groups in 9,9-bis(4-methoxyphenyl)-substituted fluorene-based hole transport materials for highly efficient organic-inorganic hybrid and all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10319-10324.	5.2	38
16	Enhancing the Hot Carrier Injection of Perovskite Solar Cells by Incorporating a Molecular Dipole Interlayer. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	38
17	Developing D- and D hole-transport materials for perovskite solar cells: the effect of the -bridge on device performance. <i>Materials Chemistry Frontiers</i> , 2021, 5, 876-884.	3.2	33
18	Bis[di(4-methoxyphenyl)amino]carbazole-capped indacenodithiophenes as hole transport materials for highly efficient perovskite solar cells: the pronounced positioning effect of a donor group on the cell performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10200-10205.	5.2	30

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19	The triple π -bridge strategy for tailoring indeno[2,1- <i>b</i>]carbazole-based HTMs enables perovskite solar cells with efficiency exceeding 21%. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8598-8606.	5.2	24
20	Enhanced electron transfer dynamics in perylene diimide passivated efficient and stable perovskite solar cells. <i>EcoMat</i> , 2021, 3, e12146.	6.8	24
21	Composite Hole-Transport Materials Based on a Metal-Organic Copper Complex and Spiro-OMeTAD for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700073.	3.1	23
22	A multifunctional additive of scandium trifluoromethanesulfonate to achieve efficient inverted perovskite solar cells with a high fill factor of 83.80%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19555-19560.	5.2	23
23	Hole transport materials based on a twisted molecular structure with a single aromatic heterocyclic core to boost the performance of conventional perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13415-13421.	2.7	23
24	Investigation of Triphenylamine (TPA)-Based Metal Complexes and Their Application in Perovskite Solar Cells. <i>ACS Omega</i> , 2017, 2, 9231-9240.	1.6	19
25	$\text{CsPbI}_{2.69}\text{Br}_{0.31}$ solar cells from low-temperature fabrication. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1139-1142.	3.2	19
26	Hydrophobic π -conjugated organic small molecule as a multi-functional interface material enables efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 430, 133065.	6.6	15
27	Hole transporting layer engineering via a zwitterionic polysquaraine toward efficient inverted perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 445, 136760.	6.6	15
28	Efficient perovskite solar cells enabled by large dimensional structured hole transporting materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1663-1668.	5.2	14
29	Highly stable perovskite solar cells with a novel Ni-based metal organic complex as dopant-free hole-transporting material. <i>Journal of Energy Chemistry</i> , 2022, 65, 312-318.	7.1	11
30	Unravel the Charge-Carrier Dynamics in Simple Dimethyl Oxalate-Treated Perovskite Solar Cells with Efficiency Exceeding 22%. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	7
31	A Wide-Band Gap Copolymer Donor for Efficient Fullerene-Free Solar Cells. <i>ACS Omega</i> , 2019, 4, 14800-14804.	1.6	4
32	Efficient wide-bandgap copolymer donors with reduced synthesis cost. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16187-16191.	2.7	4
33	Rational design of $\text{D}^{\text{A}}\text{C}^{\text{D}}$ hole-transporting materials for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7824-7832.	3.2	3