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LiTFSI-Free Spiro-OMeTAD-Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%

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#	Paper	IF	Citations
70	Alkaline-earth bis(trifluoromethanesulfonimide) additives for efficient and stable perovskite solar cells. <i>Nano Energy</i> , 2020 , 69, 104412	17.1	33
69	Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3304-3313	20.1	26
68	Oxidization-Free Spiro-OMeTAD Hole-Transporting Layer for Efficient CsPbI ₃ Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52779-52787	9.5	7
67	High-Efficiency Perovskite Solar Cells. <i>Chemical Reviews</i> , 2020 , 120, 7867-7918	68.1	587
66	Recent progress in the development of hole-transport materials to boost the power conversion efficiency of perovskite solar cells. <i>Sustainable Materials and Technologies</i> , 2020 , 26, e00210	5.3	9
65	HOMO-HOMO Electron Transfer: An Elegant Strategy for p-Type Doping of Polymer Semiconductors toward Thermoelectric Applications. <i>Advanced Materials</i> , 2020 , 32, e2003596	24	12
64	Towards commercialization: the operational stability of perovskite solar cells. <i>Chemical Society Reviews</i> , 2020 , 49, 8235-8286	58.5	143
63	Improving the Fill Factor of Perovskite Solar Cells by Employing an Amine-tethered Diketopyrrolopyrrole-Based Polymer as the Dopant-free Hole Transport Layer. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9600-9609	6.1	17
62	In Situ Study of Sputtering Nanometer-Thick Gold Films onto 100-nm-Thick Spiro-OMeTAD Films: Implications for Perovskite Solar Cells. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5987-5994	5.6	5
61	Vertical Phase Separated Cesium Fluoride Doping Organic Electron Transport Layer: A Facile and Efficient Bridge-Linked Heterojunction for Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001418	15.6	28
60	Lewis-Acid Doping of Triphenylamine-Based Hole Transport Materials Improves the Performance and Stability of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23874-23884	9.5	20
59	Gaining Insight into the Effect of Organic Interface Layer on Suppressing Ion Migration Induced Interfacial Degradation in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000837	15.6	17
58	Functional additives for high-performance inverted planar perovskite solar cells with exceeding 20% efficiency: Selective complexation of organic cations in precursors. <i>Nano Energy</i> , 2020 , 71, 104639	17.1	58
57	Single crystal structure and opto-electronic properties of oxidized Spiro-OMeTAD. <i>Chemical Communications</i> , 2020 , 56, 1589-1592	5.8	8
56	Solvent Engineering of a Dopant-Free Spiro-OMeTAD Hole-Transport Layer for Centimeter-Scale Perovskite Solar Cells with High Efficiency and Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8260-8270	9.5	20
55	Photoactive Zn-Chlorophyll Hole Transporter-Sensitized Lead-Free Cs ₂ AgBiBr ₆ Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000166	7.1	31
54	A Review on Scaling Up Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2008621	15.6	54

53	Undoped 2,2',7,7'-tetrakis (N,N-p-dimethoxy-phenylamino)-9,9'-spirobifluorene and PbS binary hole-transporter for efficient and stable planar perovskite solar cells. <i>Journal of Power Sources</i> , 2021 , 481, 229149	8.9	3
52	Recent progress in meniscus coating for large-area perovskite solar cells and solar modules. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 1926-1951	5.8	6
51	Spectroscopic Insight into Efficient and Stable Hole Transfer at the Perovskite/Spiro-OMeTAD Interface with Alternative Additives. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5752-5761	9.5	10
50	Stability Improvement of Perovskite Solar Cells by Compositional and Interfacial Engineering. <i>Chemistry of Materials</i> , 2021 , 33, 1540-1570	9.6	22
49	Molecular Engineering of Polymeric Hole-Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3526-3534	6.1	2
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37	Stable and highly efficient perovskite solar cells: Doping hydrophobic fluoride into hole transport material PTAA. <i>Nano Research</i> , 1	10	1
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27	Radical doped hole transporting material for high-efficiency and thermostable perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	2
26	Stable perovskite solar cells with 23.12% efficiency and area over 1 cm ² by an all-in-one strategy. <i>Science China Chemistry</i> , 1	7.9	5
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3	Doping organic hole-transport materials for high-performance perovskite solar cells. 2023 , 44, 020202	0
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