

Carr Hoi Yi Ho

List of Publications by Year in descending order

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26
papers

959
citations

471061

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times ranked

1895
citing authors

#	ARTICLE	IF	CITATIONS
1	A Universal Strategy to Utilize Polymeric Semiconductors for Perovskite Solar Cells with Enhanced Efficiency and Longevity. <i>Advanced Functional Materials</i> , 2018, 28, 1706377.	7.8	134
2	Molecular design enabled reduction of interface trap density affords highly efficient and stable perovskite solar cells with over 83% fill factor. <i>Nano Energy</i> , 2018, 52, 300-306.	8.2	112
3	Using Ultralow Dosages of Electron Acceptor to Reveal the Early Stage Donor–Acceptor Electronic Interactions in Bulk Heterojunction Blends. <i>Advanced Energy Materials</i> , 2017, 7, 1602360.	10.2	64
4	Pinning Down the Anomalous Light Soaking Effect toward High-Performance and Fast-Response Perovskite Solar Cells: The Ion-Migration-Induced Charge Accumulation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5069-5076.	2.1	60
5	Defect Passivation by Fullerene Derivative in Perovskite Solar Cells with Aluminum-Doped Zinc Oxide as Electron Transporting Layer. <i>Chemistry of Materials</i> , 2019, 31, 6833-6840.	3.2	50
6	Balanced Electric Field Dependent Mobilities: A Key to Access High Fill Factors in Organic Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700239.	3.1	49
7	Balancing crop production and energy harvesting in organic solar-powered greenhouses. <i>Cell Reports Physical Science</i> , 2021, 2, 100381.	2.8	48
8	Impact of Solvent Additive on Carrier Transport in Polymer:Fullerene Bulk Heterojunction Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500166.	1.9	46
9	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7-Based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802702.	7.8	44
10	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1803418.	7.8	42
11	Critical Role of Polymer Aggregation and Miscibility in Nonfullerene-Based Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020, 10, 1902430.	10.2	41
12	Thick-Film High-Performance Bulk-Heterojunction Solar Cells Retaining 90% PCEs of the Optimized Thin Film Cells. <i>Advanced Electronic Materials</i> , 2017, 3, 1700007.	2.6	33
13	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. <i>Nano Energy</i> , 2019, 64, 103950.	8.2	31
14	Naphthalene diimide-difluorobenzene-based polymer acceptors for all-polymer solar cells. <i>Chemical Communications</i> , 2017, 53, 3249-3252.	2.2	27
15	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2019, 7, 1801346.	3.6	26
16	High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020, 10, 2000823.	10.2	23
17	Bulk-heterojunction solar cells with enriched polymer contents. <i>Organic Electronics</i> , 2017, 40, 1-7.	1.4	18
18	Investigating the active layer thickness dependence of non-fullerene organic solar cells based on PM7 derivatives. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15459-15469.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Boosting the photovoltaic thermal stability of fullerene bulk heterojunction solar cells through charge transfer interactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23662-23670.	5.2	15
20	A readily-accessible, random perylene diimide copolymer acceptor for all-polymer solar cells. <i>Dyes and Pigments</i> , 2017, 146, 20-26.	2.0	15
21	Side-Chain Sequence Enabled Regioisomeric Acceptors for Conjugated Polymers. <i>Macromolecules</i> , 2018, 51, 8486-8492.	2.2	15
22	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. <i>ACS Energy Letters</i> , 2020, 5, 3692-3701.	8.8	15
23	Effects of polymer crystallinity on non-fullerene acceptor based organic solar cell photostability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16092-16099.	2.7	13
24	Enhanced Surface Passivation of Lead Sulfide Quantum Dots for Short-Wavelength Photodetectors. <i>Chemistry of Materials</i> , 2022, 34, 5433-5442.	3.2	13
25	A facile and robust approach to prepare fluorinated polymer dielectrics for probing the intrinsic transport behavior of organic semiconductors. <i>Materials Advances</i> , 2020, 1, 891-898.	2.6	9
26	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (<i>Adv. Energy Mater.</i> 25/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070109.	10.2	0