Carr Hoi Yi Ho

List of Publications by Year
in descending order

26	959	471509 17	580821 25
papers	citations	h-index	g-index

26	26	26	1895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Universal Strategy to Utilize Polymeric Semiconductors for Perovskite Solar Cells with Enhanced Efficiency and Longevity. Advanced Functional Materials, 2018, 28, 1706377.	14.9	134
2	Molecular design enabled reduction of interface trap density affords highly efficient and stable perovskite solar cells with over 83% fill factor. Nano Energy, 2018, 52, 300-306.	16.0	112
3	Using Ultralow Dosages of Electron Acceptor to Reveal the Early Stage Donorâ€“Acceptor Electronic Interactions in Bulk Heterojunction Blends. Advanced Energy Materials, 2017, 7, 1602360.	19.5	64
4	Pinning Down the Anomalous Light Soaking Effect toward High-Performance and Fast-Response Perovskite Solar Cells: The Ion-Migration-Induced Charge Accumulation. Journal of Physical Chemistry Letters, 2017, 8, 5069-5076.	4.6	60
5	Defect Passivation by Fullerene Derivative in Perovskite Solar Cells with Aluminum-Doped Zinc Oxide as Electron Transporting Layer. Chemistry of Materials, 2019, 31, 6833-6840.	6.7	50
6	Balanced Electric Field Dependent Mobilities: A Key to Access High Fill Factors in Organic Bulk Heterojunction Solar Cells. Solar Rrl, 2018, 2, 1700239.	5.8	49
7	Balancing crop production and energy harvesting in organic solar-powered greenhouses. Cell Reports Physical Science, 2021, 2, 100381.	5.6	48
8	Impact of Solvent Additive on Carrier Transport in Polymer:Fullerene Bulk Heterojunction Photovoltaic Cells. Advanced Materials Interfaces, 2015, 2, 1500166.	3.7	46
9	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7â€Thâ€Based Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1802702.	14.9	44
10	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. Advanced Functional Materials, 2018, 28, 1803418.	14.9	42
11	Critical Role of Polymer Aggregation and Miscibility in Nonfullereneâ€Based Organic Photovoltaics. Advanced Energy Materials, 2020, 10, 1902430.	19.5	41
12	Thickâ€Film Highâ€Performance Bulkâ€Heterojunction Solar Cells Retaining 90% PCEs of the Optimized Thin Film Cells. Advanced Electronic Materials, 2017, 3, 1700007.	5.1	33
13	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. Nano Energy, 2019, 64, 103950.	16.0	31
14	Naphthalene diimide-difluorobenzene-based polymer acceptors for all-polymer solar cells. Chemical Communications, 2017, 53, 3249-3252.	4.1	27
15	Panchromatic Allâ€Polymer Photodetector with Tunable Polarization Sensitivity. Advanced Optical Materials, 2019, 7, 1801346.	7.3	26
16	Highâ€Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. Advanced Energy Materials, 2020, 10, 2000823.	19.5	23
17	Bulk-heterojunction solar cells with enriched polymer contents. Organic Electronics, 2017, 40, 1-7.	2.6	18
18	Investigating the active layer thickness dependence of non-fullerene organic solar cells based on PM7 derivatives. Journal of Materials Chemistry C, 2020, 8, 15459-15469.	5.5	16

#	Article	IF	Citations
19	Boosting the photovoltaic thermal stability of fullerene bulk heterojunction solar cells through charge transfer interactions. Journal of Materials Chemistry A, 2017, 5, 23662-23670.	10.3	15
20	A readily-accessible, random perylene diimide copolymer acceptor for all-polymer solar cells. Dyes and Pigments, 2017, 146, 20-26.	3.7	15
21	Side-Chain Sequence Enabled Regioisomeric Acceptors for Conjugated Polymers. Macromolecules, 2018, 51, 8486-8492.	4.8	15
22	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. ACS Energy Letters, 2020, 5, 3692-3701.	17.4	15
23	Effects of polymer crystallinity on non-fullerene acceptor based organic solar cell photostability. Journal of Materials Chemistry C, 2020, 8, 16092-16099.	5.5	13
24	Enhanced Surface Passivation of Lead Sulfide Quantum Dots for Short-Wavelength Photodetectors. Chemistry of Materials, 2022, 34, 5433-5442.	6.7	13
25	A facile and robust approach to prepare fluorinated polymer dielectrics for probing the intrinsic transport behavior of organic semiconductors. Materials Advances, 2020, 1, 891-898.	5.4	9
26	Organic Solar Cells: Highâ€Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (Adv. Energy Mater. 25/2020). Advanced Energy Materials, 2020, 10, 2070109.	19.5	0