

# Carr Hoi Yi Ho

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

959  
citations

471509

17  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Surface Passivation of Lead Sulfide Quantum Dots for Short-Wavelength Photodetectors. <i>Chemistry of Materials</i> , 2022, 34, 5433-5442.	6.7	13
2	Balancing crop production and energy harvesting in organic solar-powered greenhouses. <i>Cell Reports Physical Science</i> , 2021, 2, 100381.	5.6	48
3	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.	5.5	16
4	Effects of polymer crystallinity on non-fullerene acceptor based organic solar cell photostability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16092-16099.	5.5	13
5	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. <i>ACS Energy Letters</i> , 2020, 5, 3692-3701.	17.4	15
6	High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020, 10, 2000823.	19.5	23
7	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.	5.4	9
8	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (Adv. Energy Mater. 25/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070109.	19.5	0
9	Critical Role of Polymer Aggregation and Miscibility in Nonfullerene-Based Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020, 10, 1902430.	19.5	41
10	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.	16.0	31
11	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.	6.7	50
12	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2019, 7, 1801346.	7.3	26
13	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.	5.8	49
14	A Universal Strategy to Utilize Polymeric Semiconductors for Perovskite Solar Cells with Enhanced Efficiency and Longevity. <i>Advanced Functional Materials</i> , 2018, 28, 1706377.	14.9	134
15	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.	14.9	44
16	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.	14.9	42
17	Side-Chain Sequence Enabled Regioisomeric Acceptors for Conjugated Polymers. <i>Macromolecules</i> , 2018, 51, 8486-8492.	4.8	15
18	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.	16.0	112

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19	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.	19.5	64
20	Naphthalene diimide-difluorobenzene-based polymer acceptors for all-polymer solar cells. <i>Chemical Communications</i> , 2017, 53, 3249-3252.	4.1	27
21	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.	5.1	33
22	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.	4.6	60
23	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.	10.3	15
24	A readily-accessible, random perylene diimide copolymer acceptor for all-polymer solar cells. <i>Dyes and Pigments</i> , 2017, 146, 20-26.	3.7	15
25	Bulk-heterojunction solar cells with enriched polymer contents. <i>Organic Electronics</i> , 2017, 40, 1-7.	2.6	18
26	Impact of Solvent Additive on Carrier Transport in Polymer:Fullerene Bulk Heterojunction Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500166.	3.7	46