

Sin Hang Cheung

List of Publications by Year in descending order

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34
papers

2,097
citations

270111

25
h-index

425179

34
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36
all docs

36
docs citations

36
times ranked

3998
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppressing Ion Migration across Perovskite Grain Boundaries by Polymer Additives. <i>Advanced Functional Materials</i> , 2021, 31, 2006802.	7.8	66
2	Heat transfer in photovoltaic polymers and bulk-heterojunctions investigated by scanning photothermal deflection technique. <i>Nano Select</i> , 2021, 2, 768-778.	1.9	4
3	Surface Sulfuration of NiO Boosts the Performance of Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000270.	3.1	31
4	Passivation engineering for hysteresis-free mixed perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110648.	3.0	21
5	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 1248-1262.	11.7	260
6	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
7	Understanding the Interplay of Binary Organic Spacer in Ruddlesden-Popper Perovskites toward Efficient and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1907759.	7.8	31
8	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science China Chemistry</i> , 2020, 63, 1159-1168.	4.2	92
9	Impact of surface dipole in NiOx on the crystallization and photovoltaic performance of organometal halide perovskite solar cells. <i>Nano Energy</i> , 2019, 61, 496-504.	8.2	92
10	Charge transfer-induced photoluminescence in ZnO nanoparticles. <i>Nanoscale</i> , 2019, 11, 8736-8743.	2.8	48
11	Rationalizing device performance of perylene diimide derivatives as acceptors for bulk-heterojunction organic solar cells. <i>Organic Electronics</i> , 2019, 65, 156-161.	1.4	23
12	Strategies for high performance perovskite/crystalline silicon four-terminal tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 36-44.	3.0	31
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.	3.1	49
14	Versatility of Carbon Enables All Carbon Based Perovskite Solar Cells to Achieve High Efficiency and High Stability. <i>Advanced Materials</i> , 2018, 30, e1706975.	11.1	95
15	Designing a ternary photovoltaic cell for indoor light harvesting with a power conversion efficiency exceeding 20%. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8579-8585.	5.2	124
16	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via π -Conjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. <i>Advanced Materials</i> , 2018, 30, e1706126.	11.1	241
17	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
18	Novel Cryo-controlled Nucleation Technique for High-efficiency Perovskite Solar Cells. , 2018, , .		0

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19	Cryo-controlled Nucleation Method for High-efficiency Perovskite Solar Cells. , 2018, , .		0
20	A Cryogenic Process for Antisolvent-free High-performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1804402.	11.1	47
21	On the understanding of energetic disorder, charge recombination and voltage losses in all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7855-7863.	2.7	26
22	High performance low-bandgap perovskite solar cells based on a high-quality mixed Sn-Pb perovskite film prepared by vacuum-assisted thermal annealing. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16347-16354.	5.2	44
23	Porphyry-based thick-film bulk-heterojunction solar cells for indoor light harvesting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9111-9118.	2.7	67
24	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
25	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
26	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
27	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
28	Investigation of high performance TiO ₂ nanorod array perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15970-15980.	5.2	64
29	Probing Bulk Transport, Interfacial Disorders, and Molecular Orientations of Amorphous Semiconductors in a Thin-Film Transistor Configuration. <i>Advanced Electronic Materials</i> , 2016, 2, 1500273.	2.6	6
30	Improvement of Charge Collection and Performance Reproducibility in Inverted Organic Solar Cells by Suppression of ZnO Subgap States. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14717-14724.	4.0	54
31	The detrimental effect of excess mobile ions in planar CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12748-12755.	5.2	55
32	Crystal Engineering for Low Defect Density and High Efficiency Hybrid Chemical Vapor Deposition Grown Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32805-32814.	4.0	76
33	Efficiency enhancement by defect engineering in perovskite photovoltaic cells prepared using evaporated PbI ₂ /CH ₃ NH ₃ I multilayers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9223-9231.	5.2	82
34	Hole-Transporting Spirothioxanthene Derivatives as Donor Materials for Efficient Small-Molecule-Based Organic Photovoltaic Devices. <i>Chemistry of Materials</i> , 2014, 26, 6585-6594.	3.2	42