

Yihua Chen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

2,855
citations

20
h-index

38
g-index

38
ext. papers

3,713
ext. citations

19.6
avg, IF

5.11
L-index

#	Paper	IF	Citations
34	A Eu-Eu ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. <i>Science</i> , 2019 , 363, 265-270	33.3	533
33	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , 2019 , 4, 408-415	62.3	511
32	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. <i>Nature Communications</i> , 2019 , 10, 815	17.4	286
31	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606774	24	267
30	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. <i>Advanced Materials</i> , 2016 , 28, 9862-9868	24	235
29	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018 , 9, 2793	17.4	127
28	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 1112	17.4	124
27	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020 , 4, 1961-1976	27.8	82
26	An in situ cross-linked 1D/3D perovskite heterostructure improves the stability of hybrid perovskite solar cells for over 3000 h operation. <i>Energy and Environmental Science</i> , 2020 , 13, 4344-4352	35.4	68
25	Effect of High Dipole Moment Cation on Layered 2D Organic/Inorganic Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 9, 1803024	21.8	65
24	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1900390	24	62
23	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. <i>Science</i> , 2021 , 373, 561-567	33.3	60
22	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. <i>Nano Energy</i> , 2018 , 53, 798-807	17.1	56
21	Toward Full Solution Processed Perovskite/Si Monolithic Tandem Solar Device With PCE Exceeding 20%. <i>Solar Rrl</i> , 2017 , 1, 1700149	7.1	54
20	Tailored Au@TiO ₂ nanostructures for the plasmonic effect in planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12034-12042	13	51
19	Defects chemistry in high-efficiency and stable perovskite solar cells. <i>Journal of Applied Physics</i> , 2020 , 128, 060903	2.5	43
18	Ligand engineering on CdTe quantum dots in perovskite solar cells for suppressed hysteresis. <i>Nano Energy</i> , 2018 , 46, 45-53	17.1	38

17	Temporal and spatial pinhole constraints in small-molecule hole transport layers for stable and efficient perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7338-7346	13	28
16	Promoting Energy Transfer via Manipulation of Crystallization Kinetics of Quasi-2D Perovskites for Efficient Green Light-Emitting Diodes. <i>Advanced Materials</i> , 2021 , 33, e2102246	24	25
15	Reduction of intrinsic defects in hybrid perovskite films via precursor purification. <i>Chemical Communications</i> , 2017 , 53, 10548-10551	5.8	24
14	Photon management for efficient hybrid perovskite solar cells via synergetic localized grating and enhanced fluorescence effect. <i>Nano Energy</i> , 2017 , 40, 540-549	17.1	18
13	Sandwiched electrode buffer for efficient and stable perovskite solar cells with dual back surface fields. <i>Joule</i> , 2021 , 5, 2148-2163	27.8	18
12	Carrier transport composites with suppressed glass-transition for stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14106-14113	13	13
11	Molecular Hinges Stabilize Formamidinium-Based Perovskite Solar Cells with Compressive Strain. <i>Advanced Functional Materials</i> , 2021 , 11, 2201193	15.6	13
10	An overview of rare earth coupled lead halide perovskite and its application in photovoltaics and light emitting devices. <i>Progress in Materials Science</i> , 2021 , 120, 100737	42.2	10
9	Microstructure variations induced by excess PbX or AX within perovskite thin films. <i>Chemical Communications</i> , 2017 , 53, 12966-12969	5.8	7
8	30% Enhancement of Efficiency in Layered 2D Perovskites Absorbers by Employing Homo-Tandem Structures. <i>Solar Rrl</i> , 2019 , 3, 1900083	7.1	6
7	Temperature-Insensitive Efficient Inorganic Perovskite Photovoltaics by Bulk Heterojunctions.. <i>Advanced Materials</i> , 2022 , e2108357	24	5
6	Thermal Management Enables More Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 3029-3036	20.1	5
5	Strain Modulation for Light-Stable n-i-p Perovskite/Silicon Tandem Solar Cells.. <i>Advanced Materials</i> , 2022 , e2201315	24	5
4	A general approach for nanoparticle composite transport materials toward efficient perovskite solar cells. <i>Chemical Communications</i> , 2017 , 53, 11028-11031	5.8	2
3	Improving Heat Transfer Enables Durable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000869	21.8	2
2	Phase transformation barrier modulation of CsPbI ₃ films via PbI ₂ complex for efficient all-inorganic perovskite photovoltaics. <i>Nano Energy</i> , 2022 , 99, 107388	17.1	0
1	Organic Inorganic Hybrid Perovskite Materials and Devices 2018 , 282-291		