

Yihua Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5494535/yihua-chen-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Temperature-Insensitive Efficient Inorganic Perovskite Photovoltaics by Bulk Heterojunctions.. <i>Advanced Materials</i> , 2022 , e2108357	24	5
33	Strain Modulation for Light-Stable n-i-p Perovskite/Silicon Tandem Solar Cells.. <i>Advanced Materials</i> , 2022 , e2201315	24	5
32	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
31	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. <i>Science</i> , 2021 , 373, 561-567	33.3	60
30	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
29	Thermal Management Enables More Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 3029-3036	20.1	5
28	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
27	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
26	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
25	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
24	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020 , 4, 1961-1976	27.8	82
23	Defects chemistry in high-efficiency and stable perovskite solar cells. <i>Journal of Applied Physics</i> , 2020 , 128, 060903	2.5	43
22	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
21	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1900390	24	62
20	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 1112	17.4	124
19	30% Enhancement of Efficiency in Layered 2D Perovskites Absorbers by Employing Homo-Tandem Structures. <i>Solar Rrl</i> , 2019 , 3, 1900083	7.1	6
18	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

17	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. <i>Nature Communications</i> , 2019 , 10, 815	17.4	286
16	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
15	Ligand engineering on CdTe quantum dots in perovskite solar cells for suppressed hysteresis. <i>Nano Energy</i> , 2018 , 46, 45-53	17.1	38
14	Organic Inorganic Hybrid Perovskite Materials and Devices 2018 , 282-291		
13	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018 , 9, 2793	17.4	127
12	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
11	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
10	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606774	24	267
9	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
8	Toward Full Solution Processed Perovskite/Si Monolithic Tandem Solar Device With PCE Exceeding 20%. <i>Solar Rrl</i> , 2017 , 1, 1700149	7.1	54
7	Reduction of intrinsic defects in hybrid perovskite films via precursor purification. <i>Chemical Communications</i> , 2017 , 53, 10548-10551	5.8	24
6	A general approach for nanoparticle composite transport materials toward efficient perovskite solar cells. <i>Chemical Communications</i> , 2017 , 53, 11028-11031	5.8	2
5	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
4	Microstructure variations induced by excess PbX or AX within perovskite thin films. <i>Chemical Communications</i> , 2017 , 53, 12966-12969	5.8	7
3	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. <i>Advanced Materials</i> , 2016 , 28, 9862-9868	24	235
2	Molecular Hinges Stabilize Formamidinium-Based Perovskite Solar Cells with Compressive Strain. <i>Advanced Functional Materials</i> , 2016 , 2201193	15.6	13
1	Improving Heat Transfer Enables Durable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 2200869	21.8	2