

Chun-Chao Chen

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44
papers

6,963
citations

20
h-index

51
g-index

51
ext. papers

7,794
ext. citations

13.3
avg, IF

5.52
L-index

#	Paper	IF	Citations
44	A polymer tandem solar cell with 10.6% power conversion efficiency. <i>Nature Communications</i> , 2013 , 4, 1446	17.4	2456
43	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. <i>Nature Photonics</i> , 2012 , 6, 180-185	33.9	1299
42	An efficient triple-junction polymer solar cell having a power conversion efficiency exceeding 11%. <i>Advanced Materials</i> , 2014 , 26, 5670-7	24	718
41	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013 , 3, 3356	4.9	511
40	Visibly transparent polymer solar cells produced by solution processing. <i>ACS Nano</i> , 2012 , 6, 7185-90	16.7	434
39	10.2% power conversion efficiency polymer tandem solar cells consisting of two identical sub-cells. <i>Advanced Materials</i> , 2013 , 25, 3973-8	24	403
38	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology.. <i>Nature Materials</i> , 2022 ,	27	157
37	High-performance semi-transparent polymer solar cells possessing tandem structures. <i>Energy and Environmental Science</i> , 2013 , 6, 2714	35.4	154
36	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. <i>Materials Horizons</i> , 2015 , 2, 203-211	14.4	127
35	Electrostatic Self-Assembly Conjugated Polyelectrolyte-Surfactant Complex as an Interlayer for High Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3284-3289	15.6	95
34	Side-Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. <i>Advanced Energy Materials</i> , 2014 , 4, 1300864	21.8	76
33	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. <i>Macromolecules</i> , 2015 , 48, 562-568	5.5	52
32	Improving Structural Order for a High-Performance Diketopyrrolopyrrole-Based Polymer Solar Cell with a Thick Active Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1300739	21.8	39
31	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013 , 103, 043304	3.4	39
30	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015 , 6, 6391	17.4	38
29	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with >21 % Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6294-6299	16.4	38
28	The mechanism of universal green antisolvents for intermediate phase controlled high-efficiency formamidinium-based perovskite solar cells. <i>Materials Horizons</i> , 2020 , 7, 934-942	14.4	32

27	Design of Low Crystallinity Spiro-Typed Hole Transporting Material for Planar Perovskite Solar Cells to Achieve 21.76% Efficiency. <i>Chemistry of Materials</i> , 2021 , 33, 285-297	9.6	29
26	Compositional optimization of a 2D/3D heterojunction interface for 22.6% efficient and stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25831-25841	13	28
25	Facile single-component precursor for Cu ₂ ZnSnS ₄ with enhanced phase and composition controllability. <i>Energy and Environmental Science</i> , 2014 , 7, 998	35.4	25
24	Low-Temperature Aging Provides 22% Efficient Bromine-Free and Passivation Layer-Free Planar Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2020 , 12, 84	19.5	20
23	Tuning the Interfacial Dipole Moment of Spacer Cations for Charge Extraction in Efficient and Ultrastable Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1256-1268	3.8	20
22	Balancing crystallization rate in a mixed Sn/Pb perovskite film for efficient and stable perovskite solar cells of more than 20% efficiency. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17830-17840	13	18
21	A finely regulated quantum well structure in quasi-2D Ruddlesden-Popper perovskite solar cells with efficiency exceeding 20%. <i>Energy and Environmental Science</i> , 2022 , 15, 296-310	35.4	17
20	Rear Interface Engineering to Suppress Migration of Iodide Ions for Efficient Perovskite Solar Cells with Minimized Hysteresis. <i>Advanced Functional Materials</i> , 2107823	15.6	16
19	Universal and versatile morphology engineering via hot fluoruous solvent soaking for organic bulk heterojunction. <i>Nature Communications</i> , 2020 , 11, 5585	17.4	15
18	Overcoming the carrier transport limitation in Ruddlesden-Popper perovskite films by using lamellar nickel oxide substrates. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11741-11752	13	14
17	Spatially Orthogonal 2D Sidechains Optimize Morphology in All-Small-Molecule Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2100750	15.6	13
16	Downward Homogenized Crystallization for Inverted Wide-Bandgap Mixed-Halide Perovskite Solar Cells with 21% Efficiency and Suppressed Photo-Induced Halide Segregation. <i>Advanced Functional Materials</i> , 2200431	15.6	13
15	Surface-Anchored Acetylcholine Regulates Band-Edge States and Suppresses Ion Migration in a 21%-Efficient Quadruple-Cation Perovskite Solar Cell. <i>Small</i> , 2021 , e2105184	11	9
14	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with >21 % Efficiency. <i>Angewandte Chemie</i> , 2021 , 133, 6364-6369	3.6	8
13	Nitroanilines enhancing the holographic data storage characteristics of the 9,10-phenanthrenequinone-doped poly(methyl methacrylate) photopolymer. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 643-650	2.9	7
12	Chlorine-terminated MXene quantum dots for improving crystallinity and moisture stability in high-performance perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 432, 134382	14.7	6
11	Favorable grain growth of thermally stable formamidinium-methylammonium perovskite solar cells by hydrazine chloride. <i>Chemical Engineering Journal</i> , 2021 , 430, 132730	14.7	6
10	Transient and Biocompatible Resistive Switching Memory Based on Electrochemically-Deposited Zinc Oxide. <i>Advanced Electronic Materials</i> , 2100322	6.4	5

9	Organic nanocrystals induced surface passivation towards high-efficiency and stable perovskite solar cells. <i>Nano Energy</i> , 2021 , 89, 106445	17.1	5
8	Recent Developments in Organic Tandem Solar Cells toward High Efficiency. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000050	1.6	4
7	Suppressing Residual Lead Iodide and Defects in Sequential-Deposited Perovskite Solar Cell via Bidentate Potassium Dichloroacetate Ligand.. <i>ChemSusChem</i> , 2022 ,	8.3	3
6	Low-Temperature Solution-processed All Organic Integration for Large-Area and Flexible High-resolution Imaging. <i>IEEE Journal of the Electron Devices Society</i> , 2022 , 1-1	2.3	3
5	Bottom Interfacial Engineering for Methylammonium-Free Regular-Structure Planar Perovskite Solar Cells over 21%. <i>Solar Rrl</i> , 2021 , 5, 2100285	7.1	3
4	Lead-free bright blue light-emitting cesium halide nanocrystals by zinc doping.. <i>RSC Advances</i> , 2021 , 11, 2437-2445	3.7	2
3	Slot-Die-Coated Organic Solar Cells Optimized through Multistep Crystallization Kinetics. <i>Solar Rrl</i> , 2021 , 5, 2100740	7.4	1
2	56.1: Invited Paper: Visibly Transparent near-IR Organic Photosensor for display application. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 612-612	0.5	
1	Holographic recording characteristics and physical mechanism of zinc methacrylate/nitroaniline-co-doped poly(methyl methacrylate)/9,10-phenanthrenequinone photopolymers. <i>Polymer Engineering and Science</i> , 2013 , 53, 1297-1305	2.3	