Chun-Chao Chen

List of Publications by Year
in descending order

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51 papers	9,018 citations	201674 27 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	8107 citing authors

#	Article	IF	Citations
1	Favorable grain growth of thermally stable formamidinium-methylammonium perovskite solar cells by hydrazine chloride. Chemical Engineering Journal, 2022, 430, 132730.	12.7	21
2	Rear Interface Engineering to Suppress Migration of Iodide Ions for Efficient Perovskite Solar Cells with Minimized Hysteresis. Advanced Functional Materials, 2022, 32, 2107823.	14.9	57
3	Size-tunable MoS₂nanosheets for controlling the crystal morphology and residual stress in sequentially deposited perovskite solar cells with over 22.5% efficiency. Journal of Materials Chemistry A, 2022, 10, 3605-3617.	10.3	15
4	Chlorine-terminated MXene quantum dots for improving crystallinity and moisture stability in high-performance perovskite solar cells. Chemical Engineering Journal, 2022, 432, 134382.	12.7	29
5	Suppressing Residual Lead Iodide and Defects in Sequentialâ€Deposited Perovskite Solar Cell via Bidentate Potassium Dichloroacetate Ligand. ChemSusChem, 2022, 15, .	6.8	18
6	A finely regulated quantum well structure in quasi-2D Ruddlesdenâ€“Popper perovskite solar cells with efficiency exceeding 20%. Energy and Environmental Science, 2022, 15, 296-310.	30.8	54
7	Low-Temperature Solution-Processed All Organic Integration for Large-Area and Flexible High-Resolution Imaging. IEEE Journal of the Electron Devices Society, 2022, 10, 821-826.	2.1	11
8	Slotâ€Dieâ€Coated Organic Solar Cells Optimized through Multistep Crystallization Kinetics. Solar Rrl, 2022, 6, .	5.8	7
9	Surfaceâ€Anchored Acetylcholine Regulates Bandâ€Edge States and Suppresses Ion Migration in a 21%â€Efficient Quadrupleâ€Cation Perovskite Solar Cell. Small, 2022, 18, e2105184.	10.0	30
10	Downward Homogenized Crystallization for Inverted Wideâ€Bandgap Mixedâ€Halide Perovskite Solar Cells with 21% Efficiency and Suppressed Photoâ€Induced Halide Segregation. Advanced Functional Materials, 2022, 32, .	14.9	63
11	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology. Nature Materials, 2022, 21, 656-663.	27.5	1,214
12	Solâ€“Gel-Derived Biodegradable Er-Doped ZnO/Polyethylene Glycol Nanoparticles for Cell Imaging. ACS Applied Nano Materials, 2022, 5, 7103-7112.	5.0	7
13	Ultralow Set Voltage and Enhanced Switching Reliability for Resistive Random-Access Memory Enabled by an Electrodeposited Nanocone Array. ACS Applied Materials & Interfaces, 2022, 14, 25710-25721.	8.0	10
14	Mixed dimensionality of 2D/3D heterojunctions for improving charge transport and long-term stability in high-efficiency 1.63 eV bandgap perovskite solar cells. Materials Advances, 2022, 3, 5786-5795.	5.4	1
15	Design of Low Crystallinity Spiro-Typed Hole Transporting Material for Planar Perovskite Solar Cells to Achieve 21.76% Efficiency. Chemistry of Materials, 2021, 33, 285-297.	6.7	57
16	Overcoming the carrier transport limitation in Ruddlesdenâ€“Popper perovskite films by using lamellar nickel oxide substrates. Journal of Materials Chemistry A, 2021, 9, 11741-11752.	10.3	28
17	Balancing crystallization rate in a mixed Snâ€“Pb perovskite film for efficient and stable perovskite solar cells of more than 20% efficiency. Journal of Materials Chemistry A, 2021, 9, 17830-17840.	10.3	51
18	Lead-free bright blue light-emitting cesium halide nanocrystals by zinc doping. RSC Advances, 2021, 11, 2437-2445.	3.6	7

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19	Tuning the Interfacial Dipole Moment of Spacer Cations for Charge Extraction in Efficient and Ultrastable Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 1256-1268.	3.1	56
20	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie, 2021, 133, 6364-6369.	2.0	11
21	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, 6294-6299.	13.8	101
22	Frontispiece: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
23	Frontispiz: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie, 2021, 133, .	2.0	0
24	Recent Developments in Organic Tandem Solar Cells toward High Efficiency. Advanced Energy and Sustainability Research, 2021, 2, 2000050.	5.8	12
25	Large Area and Flexible Organic Active Matrix Image Sensor Array Fabricated by Solution Coating Processes at Low Temperature. , 2021, , .		1
26	Spatially Orthogonal 2D Sidechains Optimize Morphology in Allâ€Small‐Molecule Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2100750.	14.9	32
27	Bottom Interfacial Engineering for Methylammoniumâ€Free Regularâ€Structure Planar Perovskite Solar Cells over 21%. Solar Rrl, 2021, 5, 2100285.	5.8	11
28	Transient and Biocompatible Resistive Switching Memory Based on Electrochemicallyâ€Deposited Zinc Oxide. Advanced Electronic Materials, 2021, 7, 2100322.	5.1	10
29	Organic nanocrystals induced surface passivation towards high-efficiency and stable perovskite solar cells. Nano Energy, 2021, 89, 106445.	16.0	19
30	The mechanism of universal green antisolvents for intermediate phase controlled high-efficiency formamidinium-based perovskite solar cells. Materials Horizons, 2020, 7, 934-942.	12.2	51
31	Compositional optimization of a 2Dâ€“3D heterojunction interface for 22.6% efficient and stable planar perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 25831-25841.	10.3	59
32	Universal and versatile morphology engineering via hot fluorous solvent soaking for organic bulk heterojunction. Nature Communications, 2020, 11, 5585.	12.8	29
33	Low-Temperature Aging Provides 22% Efficient Bromine-Free and Passivation Layer-Free Planar Perovskite Solar Cells. Nano-Micro Letters, 2020, 12, 84.	27.0	33
34	56.1: Invited Paper: Visibly Transparent nearâ€IR Organic Photosensor for display application. Digest of Technical Papers SID International Symposium, 2019, 50, 612-612.	0.3	0
35	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. Macromolecules, 2015, 48, 562-568.	4.8	59
36	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. Materials Horizons, 2015, 2, 203-211.	12.2	148

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37	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. Nature Communications, 2015, 6, 6391.	12.8	45
38	Facile single-component precursor for Cu2ZnSnS4 with enhanced phase and composition controllability. Energy and Environmental Science, 2014, 7, 998.	30.8	29
39	Sideâ€Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. Advanced Energy Materials, 2014, 4, 1300864.	19.5	81
40	An Efficient Tripleâ€Junction Polymer Solar Cell Having a Power Conversion Efficiency Exceeding 11%. Advanced Materials, 2014, 26, 5670-5677.	21.0	752
41	Improving Structural Order for a Highâ€Performance Diketopyrrolopyrroleâ€Based Polymer Solar Cell with a Thick Active Layer. Advanced Energy Materials, 2014, 4, 1300739.	19.5	43
42	Nitroanilines enhancing the holographic data storage characteristics of the 9,10â€phenanthrenequinoneâ€doped poly(methyl methacrylate) photopolymer. Journal of Applied Polymer Science, 2013, 127, 643-650.	2.6	7
43	High-performance semi-transparent polymer solar cells possessing tandem structures. Energy and Environmental Science, 2013, 6, 2714.	30.8	170
44	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. Scientific Reports, 2013, 3, 3356.	3.3	542
45	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	3.3	43
46	A polymer tandem solar cell with 10.6% power conversion efficiency. Nature Communications, 2013, 4, 1446.	12.8	2,612
47	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Subâ€Cells. Advanced Materials, 2013, 25, 3973-3978.	21.0	419
48	Holographic recording characteristics and physical mechanism of zinc methacrylate/nitroanilineâ€coâ€doped poly(methyl methacrylate)/9,10â€phenanthrenequinone photopolymers. Polymer Engineering and Science, 2013, 53, 1297-1305.	3.1	0
49	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. Nature Photonics, 2012, 6, 180-185.	31.4	1,374
50	Visibly Transparent Polymer Solar Cells Produced by Solution Processing. ACS Nano, 2012, 6, 7185-7190.	14.6	492
51	Electrostatic Selfâ€Assembly Conjugated Polyelectrolyteâ€Surfactant Complex as an Interlayer for High Performance Polymer Solar Cells. Advanced Functional Materials, 2012, 22, 3284-3289.	14.9	97