cheng Mu

List of Publications by Year
in descending order

49 papers	6,501 citations	257357 24 h-index	223716 46 g-index
49 all docs	49 docs citations	49 times ranked	8438 citing authors

#	Article	IF	Citations
1	Thermally Evaporated <scp>ZnSe</scp> for Efficient and Stable Regular/Inverted Perovskite Solar Cells by Enhanced Electron Extraction. Energy and Environmental Materials, 2023, 6, .	7.3	3
2	The Influence of CsBr on Crystal Orientation and Optoelectronic Properties of MAPbI₃-Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 2958-2967.	4.0	18
3	Bifunctional Interfacial Regulation with 4â€(Trifluoromethyl) Benzoic Acid to Reduce the Photovoltage Deficit of MAPbI₃â€Based Perovskite Solar Cells. ChemNanoMat, 2022, 8, .	1.5	2
4	Spacer Engineering of Thiophene-Based Two-Dimensional/Three-Dimensional Hybrid Perovskites for Stable and Efficient Solar Cells. Journal of Physical Chemistry C, 2022, 126, 3351-3358.	1.5	9
5	Electron Transport Assisted by Transparent Conductive Oxide Elements in Perovskite Solar Cells. ChemSusChem, 2022, 15, .	3.6	7
6	High-performance perovskite solar cells resulting from large perovskite grain size enabled by the urea additive. Sustainable Energy and Fuels, 2022, 6, 2955-2961.	2.5	5
7	Electron transport layer assisted by nickel chloride hexahydrate for open-circuit voltage improvement in MAPbI₃ perovskite solar cells. RSC Advances, 2022, 12, 13820-13825.	1.7	0
8	Complexation Engineering of Electron Transport Layers for Highâ€Performance Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	6
9	Efficient and Stable Perovskite Solar Cells via CsPF₆ Passivation of Perovskite Film Defects. Journal of Physical Chemistry Letters, 2022, 13, 4598-4604.	2.1	11
10	Using Interfacial Contact Engineering to Solve Nickel Oxide/Perovskite Interface Contact Issues in Inverted Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 3580-3589.	3.2	23
11	Enhanced crystallization of solution-processed perovskite using urea as an additive for large-grain MAPbI₃ perovskite solar cells. Nanotechnology, 2021, 32, 30LT02.	1.3	8
12	Improvement Performance of Planar Perovskite Solar Cells by Bulk and Surface Defect Passivation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13001-13009.	3.2	14
13	Precursor Engineering of the Electron Transport Layer for Application in Highâ€Performance Perovskite Solar Cells. Advanced Science, 2021, 8, e2102845.	5.6	62
14	Enhancement of Openâ€Circuit Voltage of Perovskite Solar Cells by Interfacial Modification with <i>p</i>â€Aminobenzoic Acid. Advanced Materials Interfaces, 2020, 7, 1901584.	1.9	21
15	Bifunctional Chlorosilane Modification for Defect Passivation and Stability Enhancement of High-Efficiency Perovskite Solar Cells. Journal of Physical Chemistry C, 2020, 124, 22903-22913.	1.5	8
16	Sodium Dodecylbenzene Sulfonate Interface Modification of Methylammonium Lead Iodide for Surface Passivation of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 52643-52651.	4.0	25
17	Diffusion Dynamics of Mobile Ions Hidden in Transient Optoelectronic Measurement in Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 8330-8337.	2.5	1
18	Choline Chloride-Modified SnO₂ Achieving High Output Voltage in MAPbI₃ Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 3504-3511.	2.5	57

#	Article	IF	Citations
19	A facile route for preparing nickel(ii) oxide thin films for high-performance inverted perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 3597-3603.	2.5	6
20	Highly efficient and stable 2Dâ€“3D perovskite solar cells fabricated by interfacial modification. Nanotechnology, 2019, 30, 275202.	1.3	40
21	A sandwich-like electron transport layer to assist highly efficient planar perovskite solar cells. Nanoscale, 2019, 11, 21917-21926.	2.8	31
22	Reduced Defects of MAPbI₃ Thin Films Treated by FAI for Highâ€Performance Planar Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1805810.	7.8	73
23	Achieving High Openâ€Circuit Voltages up to 1.57 V in Holeâ€Transportâ€Materialâ€Free MAPbBr₃ Solar Cells with Carbon Electrodes. Advanced Energy Materials, 2018, 8, 1701159.	10.2	55
24	Quantitative Doping of Chlorine in Formamidinium Lead Trihalide (FAPbI_{3âˆ’}<i>_x</i>Cl<i>_x</i>) for Planar Heterojunction Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601297.	10.2	106
25	Roomâ€Temperature, Hydrochlorideâ€Assisted, Oneâ€Step Deposition for Highly Efficient and Airâ€Stable Perovskite Solar Cells. Advanced Materials, 2016, 28, 8309-8314.	11.1	96
26	Nanobowl optical concentrator for efficient light trapping and high-performance organic photovoltaics. Science Bulletin, 2015, 60, 109-115.	4.3	13
27	Organic Solar Cells: A Tetraphenylethylene Coreâ€Based 3D Structure Small Molecular Acceptor Enabling Efficient Nonâ€Fullerene Organic Solar Cells (Adv. Mater. 6/2015). Advanced Materials, 2015, 27, 1014-1014.	11.1	9
28	The influence of spacer units on molecular properties and solar cell performance of non-fullerene acceptors. Journal of Materials Chemistry A, 2015, 3, 20108-20112.	5.2	41
29	A Tetraphenylethylene Coreâ€Based 3D Structure Small Molecular Acceptor Enabling Efficient Nonâ€Fullerene Organic Solar Cells. Advanced Materials, 2015, 27, 1015-1020.	11.1	362
30	High-efficiency non-fullerene organic solar cells enabled by a difluorobenzothiadiazole-based donor polymer combined with a properly matched small molecule acceptor. Energy and Environmental Science, 2015, 8, 520-525.	15.6	379
31	Highâ€Efficiency Allâ€Polymer Solar Cells Based on a Pair of Crystalline Lowâ€Bandgap Polymers. Advanced Materials, 2014, 26, 7224-7230.	11.1	228
32	Polyfluorene Derivatives are Highâ€Performance Organic Holeâ€Transporting Materials for Inorganicâˆ’Organic Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2014, 24, 7357-7365.	7.8	172
33	Aggregation and morphology control enables multiple cases of high-efficiency polymer solar cells. Nature Communications, 2014, 5, 5293.	5.8	2,854
34	Highly Efficient Inverted Polymer Solar Cells Based on a Cross-linkable Water-/Alcohol-Soluble Conjugated Polymer Interlayer. ACS Applied Materials & Interfaces, 2014, 6, 10429-10435.	4.0	155
35	Efficiency Enhancement of Perovskite Solar Cells through Fast Electron Extraction: The Role of Graphene Quantum Dots. Journal of the American Chemical Society, 2014, 136, 3760-3763.	6.6	688
36	All-solid-state hybrid solar cells based on a new organometal halide perovskite sensitizer and one-dimensional TiO2 nanowire arrays. Nanoscale, 2013, 5, 3245.	2.8	401

#	Article	IF	Citations
37	Synthesis and luminescence properties of Eu3+ doped porous YVO4 nanowires by chemical precipitation in nanochannels. Materials Research Bulletin, 2012, 47, 491-496.	2.7	9
38	Synthesis and luminescent properties of Rare Earth (Eu2+, Tb3+) doped Ba3(PO4)2 nanowires by chemical precipitation in nanochannels. Materials Letters, 2012, 70, 101-104.	1.3	14
39	Synthesis of RePO4 (Re=La, Nd, Pr, or Y) Nanowires by Chemical Precipitation in Nanochannels. Advanced Materials Research, 2011, 181-182, 495-500.	0.3	0
40	Confined conversion of CuS nanowires to CuO nanotubes by annealing-induced diffusion in nanochannels. Nanoscale Research Letters, 2011, 6, 150.	3.1	30
41	Electrochemical synthesis and applications of oriented and hierarchically quasi-1D semiconducting nanostructures. Coordination Chemistry Reviews, 2010, 254, 1135-1150.	9.5	66
42	Synthesis of Single Crystal Metal Sulfide Nanowires and Nanowire Arrays by Chemical Precipitation in Templates. Journal of Nanoscience and Nanotechnology, 2010, 10, 8191-8198.	0.9	9
43	Au nanoparticle arrays with tunable particle gaps by template-assisted electroless deposition for high performance surface-enhanced Raman scattering. Nanotechnology, 2010, 21, 015604.	1.3	68
44	Gold Nanorod Arrays with Good Reproducibility for High-Performance Surface-Enhanced Raman Scattering. Langmuir, 2009, 25, 4708-4714.	1.6	76
45	Silicon Nanotube Array/Gold Electrode for Direct Electrochemistry of Cytochromec. Journal of Physical Chemistry B, 2007, 111, 1491-1495.	1.2	73
46	Controlling growth and field emission properties of silicon nanotube arrays by multistep template replication and chemical vapor deposition. Applied Physics Letters, 2005, 87, 113104.	1.5	74
47	Large-scale and highly ordered 1D nanostructural arrays by template-assisted electrodeposition. , 2004, 5593, 135.		3
48	Field emission of large-area and graphitized carbon nanotube array on anodic aluminum oxide template. Journal of Applied Physics, 2003, 93, 5602-5605.	1.1	84
49	Luminescent center in Brâˆ'-rich BaFBr:O2âˆ'. Journal of Luminescence, 1999, 81, 231-235.	1.5	6