Zhiping Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3870876/publications.pdf

Version: 2024-02-01

48	7,167	147801	214800
papers	citations	31 h-index	47 g-index

49	49	49	8608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. Science, 2018, 360, 1442-1446.	12.6	1,221
2	Efficient ambient-air-stable solar cells with 2Dâ€“3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. Nature Energy, 2017, 2, .	39.5	1,169
3	Planar perovskite solar cells with long-term stability using ionic liquid additives. Nature, 2019, 571, 245-250.	27.8	1,103
4	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. Science, 2017, 358, 1192-1197.	12.6	554
5	Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.	30.8	372
6	Crystallization Kinetics and Morphology Control of Formamidiniumâ€“Cesium Mixedâ€Cation Lead Mixedâ€Halide Perovskite via Tunability of the Colloidal Precursor Solution. Advanced Materials, 2017, 29, 1607039.	21.0	263
7	Efficient and Airâ€Stable Mixedâ€Cation Lead Mixedâ€Halide Perovskite Solar Cells with nâ€Doped Organic Electron Extraction Layers. Advanced Materials, 2017, 29, 1604186.	21.0	237
8	Solution-Processed Cesium Hexabromopalladate(IV), Cs₂PdBr₆, for Optoelectronic Applications. Journal of the American Chemical Society, 2017, 139, 6030-6033.	13.7	189
9	Impact of Bi³⁺ Heterovalent Doping in Organicâ€“Inorganic Metal Halide Perovskite Crystals. Journal of the American Chemical Society, 2018, 140, 574-577.	13.7	181
10	High irradiance performance of metal halide perovskites for concentrator photovoltaics. Nature Energy, 2018, 3, 855-861.	39.5	180
11	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. Advanced Materials, 2018, 30, e1804506.	21.0	156
12	Fractional deviations in precursor stoichiometry dictate the properties, performance and stability of perovskite photovoltaic devices. Energy and Environmental Science, 2018, 11, 3380-3391.	30.8	125
13	Identification and Mitigation of a Critical Interfacial Instability in Perovskite Solar Cells Employing Copper Thiocyanate Holeâ€Transporter. Advanced Materials Interfaces, 2016, 3, 1600571.	3.7	105
14	Fabrication of Efficient and Stable CsPbI₃ Perovskite Solar Cells through Cation Exchange Process. Advanced Energy Materials, 2019, 9, 1901685.	19.5	101
15	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. Nano Energy, 2017, 32, 551-557.	16.0	97
16	Metal composition influences optoelectronic quality in mixed-metal leadâ€“tin triiodide perovskite solar absorbers. Energy and Environmental Science, 2020, 13, 1776-1787.	30.8	87
17	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. Nano Energy, 2020, 67, 104189.	16.0	81
18	Roomâ€Temperature Atomic Layer Deposition of Al₂O₃: Impact on Efficiency, Stability and Surface Properties in Perovskite Solar Cells. ChemSusChem, 2016, 9, 3401-3406.	6.8	76

#	Article	IF	Citations
19	Hybrid Perovskites: Prospects for Concentrator Solar Cells. Advanced Science, 2018, 5, 1700792.	11.2	76
20	Efficient and Stable Perovskite Solar Cells Using Lowâ€Cost Anilineâ€Based Enamine Holeâ€Transporting Materials. Advanced Materials, 2018, 30, e1803735.	21.0	68
21	Chargeâ€Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. Advanced Functional Materials, 2020, 30, 2004312.	14.9	67
22	Layered Mixed Tinâ€“Lead Hybrid Perovskite Solar Cells with High Stability. ACS Energy Letters, 2018, 3, 2246-2251.	17.4	64
23	Nearâ€Infrared and Shortâ€Wavelength Infrared Photodiodes Based on Dyeâ€“Perovskite Composites. Advanced Functional Materials, 2017, 27, 1702485.	14.9	59
24	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	17.4	54
25	Low cost triazatruxene hole transporting material for >20% efficiency perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 5235-5243.	5.5	50
26	Chargeâ€Carrier Dynamics, Mobilities, and Diffusion Lengths of 2Dâ€“3D Hybrid Butylammoniumâ€“Cesiumâ€“Formamidinium Lead Halide Perovskites. Advanced Functional Materials, 2019, 29, 1902656.	14.9	45
27	Degradation Kinetics of Inverted Perovskite Solar Cells. Scientific Reports, 2018, 8, 5977.	3.3	44
28	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. Journal of Physical Chemistry C, 2017, 121, 27256-27262.	3.1	40
29	Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for Highâ€Efficiency Perovskite Solar Cells. Small, 2017, 13, 1602808.	10.0	36
30	Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. Chemistry of Materials, 2017, 29, 462-473.	6.7	35
31	Preparation of silicon carbide film by a plasma focus device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 7179-7182.	2.1	31
32	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 1185-1191.	8.0	31
33	Fabrication of DLC films by pulsed ion beam ablation in a dense plasma focus device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4169-4173.	2.1	28
34	Templating Effects in Molecular Growth of Blended Films for Efficient Small-Molecule Photovoltaics. ACS Applied Materials & Interfaces, 2014, 6, 6369-6377.	8.0	28
35	Growth of preferentially-oriented AlN films on amorphous substrate by pulsed laser deposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3007-3011.	2.1	16
36	Insights Into the Microscopic and Degradation Processes in Hybrid Perovskite Solar Cells Using Noise Spectroscopy. Solar Rrl, 2018, 2, 1700173.	5.8	13

#	Article	IF	Citations
37	Advances in Phase Stability of Cesium Lead Halide Perovskites. Solar Rrl, 2020, 4, 2000495.	5.8	13
38	Thermal stability of CH3NH3PbIxCl3-x versus [HC(NH2)2]0.83Cs0.17PbI2.7Br0.3 perovskite films by X-ray photoelectron spectroscopy. Applied Surface Science, 2020, 513, 145596.	6.1	13
39	Large-area perovskite films for PV applications: A perspective from nucleation and crystallization. Journal of Energy Chemistry, 2021, 59, 626-641.	12.9	11
40	Fabrication of carbon nanotube hybrid films as transparent electrodes for small-molecule photovoltaic cells. RSC Advances, 2016, 6, 25062-25069.	3.6	10
41	Self-assembled 2D-3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites for stable and efficient solar cells. , 0, , .		7
42	Efficiency limit analysis of organic solar cells: model simulation based on vanadyl phthalocyanine/C60planar junction cell. Japanese Journal of Applied Physics, 2014, 53, 01AB12.	1.5	6
43	Structural influences on charge carrier dynamics for small-molecule organic photovoltaics. Journal of Applied Physics, 2014, 116, 013105.	2.5	6
44	Synthesis of Novel Pushâ€“Pull Chromophores based on N-Ethylcarbazole for Vacuum Deposition Processed Organic Photovoltaics. Chemistry Letters, 2015, 44, 958-960.	1.3	5
45	Constructing Nanostructured Donor/Acceptor Bulk Heterojunctions via Interfacial Templates for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 43893-43901.	8.0	5
46	Role of Nitrogen in the Formation of $hbox{CN}_{x}$ Films by Pulsed Laser Deposition. IEEE Transactions on Plasma Science, 2012, 40, 1815-1819.	1.3	4
47	Understanding Device-Structure-Induced Variations in Open-Circuit Voltage for Organic Photovoltaics. ACS Applied Materials & Interfaces, 2015, 7, 10814-10822.	8.0	2
48	Crystallization kinetics and morphology control of formamidinium-cesium mixed-cation lead mixed-halide perovskite via tunability of the colloidal precursor solution. , 0, , .		0