

Zhiping Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

5,264
citations

29
h-index

49
g-index

49
ext. papers

6,203
ext. citations

16.4
avg, IF

5.71
L-index

#	Paper	IF	Citations
47	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018 , 360, 1442-1446	33.3	915
46	Efficient ambient-air-stable solar cells with 2D/3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. <i>Nature Energy</i> , 2017 , 2,	62.3	901
45	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019 , 571, 245-250	35.4	697
44	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017 , 358, 1192-1197	33.3	418
43	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016 , 9, 2892-2901	35.4	301
42	Efficient and Air-Stable Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells with n-Doped Organic Electron Extraction Layers. <i>Advanced Materials</i> , 2017 , 29, 1604186	24	211
41	Crystallization Kinetics and Morphology Control of Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskite via Tunability of the Colloidal Precursor Solution. <i>Advanced Materials</i> , 2017 , 29, 1607039	24	197
40	High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , 2018 , 3, 855-861	62.3	140
39	Impact of Bi Heterovalent Doping in Organic-Inorganic Metal Halide Perovskite Crystals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 574-577	16.4	135
38	Solution-Processed Cesium Hexabromopalladate(IV), CsPdBr ₆ , for Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6030-6033	16.4	134
37	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1804506	24	94
36	Fractional deviations in precursor stoichiometry dictate the properties, performance and stability of perovskite photovoltaic devices. <i>Energy and Environmental Science</i> , 2018 , 11, 3380-3391	35.4	88
35	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. <i>Nano Energy</i> , 2017 , 32, 551-557	17.1	85
34	Identification and Mitigation of a Critical Interfacial Instability in Perovskite Solar Cells Employing Copper Thiocyanate Hole-Transporter. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600571	4.6	80
33	Room-Temperature Atomic Layer Deposition of Al ₂ O ₃ : Impact on Efficiency, Stability and Surface Properties in Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 3401-3406	8.3	72
32	Fabrication of Efficient and Stable CsPbI ₃ Perovskite Solar Cells through Cation Exchange Process. <i>Advanced Energy Materials</i> , 2019 , 9, 1901685	21.8	67
31	Hybrid Perovskites: Prospects for Concentrator Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1700792	13.6	54

30	Metal composition influences optoelectronic quality in mixed-metal lead-free triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , 2020 , 13, 1776-1787	35.4	50
29	Efficient and Stable Perovskite Solar Cells Using Low-Cost Aniline-Based Enamine Hole-Transporting Materials. <i>Advanced Materials</i> , 2018 , 30, e1803735	24	50
28	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. <i>Nano Energy</i> , 2020 , 67, 104189	17.1	49
27	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , 2018 , 3, 1233-1240	20.1	43
26	Near-Infrared and Short-Wavelength Infrared Photodiodes Based on Dye-Perovskite Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1702485	15.6	43
25	Degradation Kinetics of Inverted Perovskite Solar Cells. <i>Scientific Reports</i> , 2018 , 8, 5977	4.9	39
24	Layered Mixed Tin-Lead Hybrid Perovskite Solar Cells with High Stability. <i>ACS Energy Letters</i> , 2018 , 3, 2246-2251	20.1	39
23	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27256-27262	3.8	35
22	Low cost triazatruxene hole transporting material for >20% efficiency perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5235-5243	7.1	34
21	Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2017 , 29, 462-473	9.6	32
20	Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for High-Efficiency Perovskite Solar Cells. <i>Small</i> , 2017 , 13, 1602808	11	29
19	Preparation of silicon carbide film by a plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 7179-7182	2.3	29
18	Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004312	15.6	27
17	Fabrication of DLC films by pulsed ion beam ablation in a dense plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4169-4173	2.3	26
16	Templating effects in molecular growth of blended films for efficient small-molecule photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6369-77	9.5	25
15	Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2DBD Hybrid Butylammonium-Cesium-Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , 2019 , 29, 1902656	15.6	22
14	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1185-1191	9.5	18
13	Growth of preferentially-oriented AlN films on amorphous substrate by pulsed laser deposition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 3007-3011	2.3	15

12	Thermal stability of $\text{CH}_3\text{NH}_3\text{PbI}_x\text{Cl}_{3-x}$ versus $[\text{HC}(\text{NH}_2)_2]_{0.83}\text{Cs}_{0.17}\text{PbI}_{2.7}\text{Br}_{0.3}$ perovskite films by X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2020 , 513, 145596	6.7	10
11	Insights Into the Microscopic and Degradation Processes in Hybrid Perovskite Solar Cells Using Noise Spectroscopy. <i>Solar Rrl</i> , 2018 , 2, 1700173	7.1	10
10	Fabrication of carbon nanotube hybrid films as transparent electrodes for small-molecule photovoltaic cells. <i>RSC Advances</i> , 2016 , 6, 25062-25069	3.7	8
9	Structural influences on charge carrier dynamics for small-molecule organic photovoltaics. <i>Journal of Applied Physics</i> , 2014 , 116, 013105	2.5	6
8	Efficiency limit analysis of organic solar cells: model simulation based on vanadyl phthalocyanine/C60planar junction cell. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 01AB12	1.4	5
7	Self-assembled 2D-3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites for stable and efficient solar cells		5
6	Constructing Nanostructured Donor/Acceptor Bulk Heterojunctions via Interfacial Templates for Efficient Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43893-43901	9.5	5
5	Advances in Phase Stability of Cesium Lead Halide Perovskites. <i>Solar Rrl</i> , 2020 , 4, 2000495	7.1	5
4	Role of Nitrogen in the Formation of CN_x Films by Pulsed Laser Deposition. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1815-1819	1.3	4
3	Large-area perovskite films for PV applications: A perspective from nucleation and crystallization. <i>Journal of Energy Chemistry</i> , 2021 , 59, 626-641	12	4
2	Synthesis of Novel PushPull Chromophores based on N-Ethylcarbazole for Vacuum Deposition Processed Organic Photovoltaics. <i>Chemistry Letters</i> , 2015 , 44, 958-960	1.7	3
1	Understanding device-structure-induced variations in open-circuit voltage for organic photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10814-22	9.5	2