

# Zhiping Wang

## List of Publications by Year in Descending Order

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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	Large-area perovskite films for PV applications: A perspective from nucleation and crystallization. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 626-641	12	4
46	Thermal stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>x</sub> Cl <sub>3-x</sub> versus [HC(NH <sub>2</sub> ) <sub>2</sub> ] <sub>0.83</sub> Cs <sub>0.17</sub> PbI <sub>2.7</sub> Br <sub>0.3</sub> perovskite films by X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145596	6.7	10
45	Metal composition influences optoelectronic quality in mixed-metal lead-free triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1776-1787	35.4	50
44	Advances in Phase Stability of Cesium Lead Halide Perovskites. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000495	7.1	5
43	Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004312	15.6	27
42	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 67, 104189	17.1	49
41	Low cost triazatruxene hole transporting material for >20% efficiency perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5235-5243	7.1	34
40	Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2D/3D Hybrid Butylammonium-Cesium-Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902656	15.6	22
39	Fabrication of Efficient and Stable CsPbI <sub>3</sub> Perovskite Solar Cells through Cation Exchange Process. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901685	21.8	67
38	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , <b>2019</b> , 571, 245-250	50.4	697
37	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 &amp; Interfaces</i> , <b>2019</b> , 11, 1185-1191	9.5	18
36	Degradation Kinetics of Inverted Perovskite Solar Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 5977	4.9	39
35	Hybrid Perovskites: Prospects for Concentrator Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700792	13.6	54
34	Impact of Bi Heterovalent Doping in Organic-Inorganic Metal Halide Perovskite Crystals. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 574-577	16.4	135
33	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1233-1240	20.1	43
32	High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , <b>2018</b> , 3, 855-861	62.3	140
31	Layered Mixed Tin-Lead Hybrid Perovskite Solar Cells with High Stability. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2246-2251	20.1	39

30	Insights Into the Microscopic and Degradation Processes in Hybrid Perovskite Solar Cells Using Noise Spectroscopy. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700173	7.1	10
29	Efficient and Stable Perovskite Solar Cells Using Low-Cost Aniline-Based Enamine Hole-Transporting Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803735	24	50
28	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804506	24	94
27	Fractional deviations in precursor stoichiometry dictate the properties, performance and stability of perovskite photovoltaic devices. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3380-3391	35.4	88
26	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , <b>2018</b> , 360, 1442-1446	33.3	915
25	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 32, 551-557	17.1	85
24	Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for High-Efficiency Perovskite Solar Cells. <i>Small</i> , <b>2017</b> , 13, 1602808	11	29
23	Solution-Processed Cesium Hexabromopalladate(IV), CsPdBr <sub>6</sub> , for Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6030-6033	16.4	134
22	Efficient and Air-Stable Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells with n-Doped Organic Electron Extraction Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604186	24	211
21	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> , <b>2017</b> , 29, 1607039	24	197
20	Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 462-473	9.6	32
19	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27256-27262	3.8	35
18	Near-Infrared and Short-Wavelength Infrared Photodiodes Based on Dye/Perovskite Composites. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702485	15.6	43
17	Efficient ambient-air-stable solar cells with 2D/3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	901
16	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , <b>2017</b> , 358, 1192-1197	33.3	418
15	Constructing Nanostructured Donor/Acceptor Bulk Heterojunctions via Interfacial Templates for Efficient Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43893-43901	9.5	5
14	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2892-2901	35.4	301
13	Fabrication of carbon nanotube hybrid films as transparent electrodes for small-molecule photovoltaic cells. <i>RSC Advances</i> , <b>2016</b> , 6, 25062-25069	3.7	8

12	Room-Temperature Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> : Impact on Efficiency, Stability and Surface Properties in Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2016</b> , 9, 3401-3406	8.3	72
11	Identification and Mitigation of a Critical Interfacial Instability in Perovskite Solar Cells Employing Copper Thiocyanate Hole-Transporter. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600571	4.6	80
10	Understanding device-structure-induced variations in open-circuit voltage for organic photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10814-22	9.5	2
9	Synthesis of Novel Push-Pull Chromophores based on N-Ethylcarbazole for Vacuum Deposition Processed Organic Photovoltaics. <i>Chemistry Letters</i> , <b>2015</b> , 44, 958-960	1.7	3
8	Templating effects in molecular growth of blended films for efficient small-molecule photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6369-77	9.5	25
7	Structural influences on charge carrier dynamics for small-molecule organic photovoltaics. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 013105	2.5	6
6	Efficiency limit analysis of organic solar cells: model simulation based on vanadyl phthalocyanine/C60 planar junction cell. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 01AB12	1.4	5
5	Role of Nitrogen in the Formation of $\text{CN}_x$ Films by Pulsed Laser Deposition. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 1815-1819	1.3	4
4	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> , <b>2011</b> , 375, 3007-3011	2.3	15
3	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> , <b>2009</b> , 373, 4169-4173	2.3	26
2	Preparation of silicon carbide film by a plasma focus device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 7179-7182	2.3	29
1	Self-assembled 2D-3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites for stable and efficient solar cells		5