Zhaolai Chen

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.

41 papers	3,250 citations	24 h-index	46 g-index
46 ext. papers	3,868 ext. citations	13.3 avg, IF	5.4 L-index

#	Paper	IF	Citations
41	Stabilizing the □Phase of CsPbI3 Perovskite by Sulfobetaine Zwitterions in One-Step Spin-Coating Films. *Joule*, **2017**, 1, 371-382	27.8	344
40	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. *Advanced Materials*, **2018**, 30, 1705393	24	328
39	Thin single crystal perovskite solar cells to harvest below-bandgap light absorption. *Nature Communications*, **2017**, 8, 1890	17.4	326
38	Enhanced Thermal Stability in Perovskite Solar Cells by Assembling 2D/3D Stacking Structures. *Journal of Physical Chemistry Letters*, **2018**, 9, 654-658	6.4	313
37	Single-Crystal MAPbI3 Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. *ACS Energy Letters*, **2019**, 4, 1258-1259	20.1	291
36	Low-Noise and Large-Linear-Dynamic-Range Photodetectors Based on Hybrid-Perovskite Thin-Single-Crystals. *Advanced Materials*, **2017**, 29, 1703209	24	208
35	Inorganic CsPbI2Br Perovskite Solar Cells: The Progress and Perspective. *Solar Rrl*, **2019**, 3, 1800239	7.1	160
34	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. *Joule*, **2019**, 3, 1963-1976	27.8	154
33	Simple Synthesis of Highly Luminescent Water-Soluble CdTe Quantum Dots with Controllable Surface Functionality. *Chemistry of Materials*, **2011**, 23, 4857-4862	9.6	114
32	Single Crystal Perovskite Solar Cells: Development and Perspectives. *Advanced Functional Materials*, **2020**, 30, 1905021	15.6	100
31	Large electrostrictive response in lead halide perovskites. *Nature Materials*, **2018**, 17, 1020-1026	27	89
30	From planar-heterojunction to n□structure: an efficient strategy to improve short-circuit current and power conversion efficiency of aqueous-solution-processed hybrid solar cells. *Energy and Environmental Science*, **2013**, 6, 1597	35.4	72
29	Conducting the temperature-dependent conformational change of macrocyclic compounds to the lattice dilation of quantum dots for achieving an ultrasensitive nanothermometer. *ACS Nano*, **2013**, 7, 2273-83	16.7	64
28	Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High Gain. *Nano Letters*, **2017**, 17, 7330-7338	11.5	63
27	Inverted Hybrid Solar Cells from Aqueous Materials with a PCE of 3.61%. *Advanced Energy Materials* , **2013**, 3, 433-437	21.8	52
26	Aqueous-Processed Inorganic Thin-Film Solar Cells Based on CdSe(x)Te(1-x) Nanocrystals: The Impact of Composition on Photovoltaic Performance. *ACS Applied Materials & Interfaces*, **2015**, 7, 23223-30	9.5	44
25	In Situ Construction of Nanoscale CdTe-CdS Bulk Heterojunctions for Inorganic Nanocrystal Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400235	21.8	41

24	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. *Advanced Optical Materials*, **2019**, 7, 1900506	8.1	40
23	Dip-Coated Gold Nanoparticle Electrodes for Aqueous-Solution-Processed Large-Area Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400135	21.8	35
22	Improvement in Open-Circuit Voltage of Thin Film Solar Cells from Aqueous Nanocrystals by Interface Engineering. *ACS Applied Materials & Interfaces*, **2016**, 8, 900-7	9.5	32
21	Efficient aqueous-processed hybrid solar cells from a polymer with a wide bandgap. *Journal of Materials Chemistry A*, **2015**, 3, 10969-10975	13	30
20	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. *Chemistry of Materials*, **2020**, 32, 7602-7617	9.6	30
19	Designing Large-Area Single-Crystal Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 1797-1803	20.1	28
18	High-efficiency aqueous-solution-processed hybrid solar cells based on P3HT dots and CdTe nanocrystals. *ACS Applied Materials & Interfaces*, **2015**, 7, 7146-52	9.5	26
17	Aqueous-solution-processed hybrid solar cells with good thermal and morphological stability. *Solar Energy Materials and Solar Cells*, **2013**, 109, 254-261	6.4	23
16	High efficiency aqueous-processed MEH-PPV/CdTe hybrid solar cells with a PCE of 4.20%. *Journal of Materials Chemistry A*, **2016**, 4, 1105-1111	13	22
15	Aqueous-Processed Polymer/Nanocrystals Hybrid Solar Cells: The Effects of Chlorine on the Synthesis of CdTe Nanocrystals, Crystal Growth, Defect Passivation, Photocarrier Dynamics, and Device Performance. *Solar Rrl*, **2017**, 1, 1600020	7.1	21
14	Efficient inorganic solar cells from aqueous nanocrystals: the impact of composition on carrier dynamics. *RSC Advances*, **2015**, 5, 74263-74269	3.7	21
13	Aqueous-Processed Insulating Polymer/Nanocrystal Hybrid Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 7101-10	9.5	19
12	Aqueous-solution-processed PPV□CdxHg1□xTe hybrid solar cells with a significant near-infrared contribution. *Journal of Materials Chemistry*, **2012**, 22, 17827		19
11	Self-Powered FA0.55MA0.45PbI3 Single-Crystal Perovskite X-Ray Detectors with High Sensitivity. *Advanced Functional Materials*,2109149	15.6	19
10	Engineering the Hole Extraction Interface Enables Single-Crystal MAPbI 3 Perovskite Solar Cells with Efficiency Exceeding 22% and Superior Indoor Response. *Advanced Energy Materials*, **2022**, 12, 2103241	21.8	18
9	Recent development and understanding of polymer□anocrystal hybrid solar cells. *Materials Chemistry Frontiers*, **2017**, 1, 1502-1513	7.8	17
8	Tunable polymer brush/Au NPs hybrid plasmonic arrays based on host-guest interaction. *ACS Applied Materials & Interfaces*, **2014**, 6, 19951-7	9.5	16
7	Unravelling the working junction of aqueous-processed polymer-nanocrystal solar cells towards improved performance. *Physical Chemistry Chemical Physics*, **2016**, 18, 15791-7	3.6	15

6	Exploring Organic Metal Halides with Reversible Temperature-Responsive Dual-Emissive Photoluminescence. *ChemSusChem*, **2019**, 12, 5228	8.3	14
5	Single-crystal perovskite detectors: development and perspectives. *Journal of Materials Chemistry C* , **2020**, 8, 11664-11674	7.1	13
4	Construction of nanoparticle superstructures on the basis of host-guest interaction to achieve performance integration and modulation. *Physical Chemistry Chemical Physics*, **2012**, 14, 6119-25	3.6	10
3	(1-C5H14N2Br)MnBr : A Lead-Free Zero-Dimensional Organic-Metal Halide With Intense Green Photoluminescence. *Frontiers in Chemistry*, **2020**, 8, 352	5	9
2	Inch-Sized Thin Metal Halide Perovskite Single-Crystal Wafers for Sensitive X-Ray Detection.. *Frontiers in Chemistry*, **2021**, 9, 823868	5	2
1	Thin MAPbSnI Perovskite Single Crystals for Sensitive Infrared Light Detection.. *Frontiers in Chemistry*, **2021**, 9, 821699	5	1