

Zhaolai Chen

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.

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	Engineering the Hole Extraction Interface Enables Single-Crystal MAPbI ₃ Perovskite Solar Cells with Efficiency Exceeding 22% and Superior Indoor Response. <i>Advanced Energy Materials</i> , 2022 , 12, 2103241	21.8	18
40	Thin MAPbSnI Perovskite Single Crystals for Sensitive Infrared Light Detection.. <i>Frontiers in Chemistry</i> , 2021 , 9, 821699	5	1
39	Inch-Sized Thin Metal Halide Perovskite Single-Crystal Wafers for Sensitive X-Ray Detection.. <i>Frontiers in Chemistry</i> , 2021 , 9, 823868	5	2
38	Designing Large-Area Single-Crystal Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1797-1803	20.1	28
37	(1-C ₅ H ₁₄ N ₂ Br)MnBr : A Lead-Free Zero-Dimensional Organic-Metal Halide With Intense Green Photoluminescence. <i>Frontiers in Chemistry</i> , 2020 , 8, 352	5	9
36	Single Crystal Perovskite Solar Cells: Development and Perspectives. <i>Advanced Functional Materials</i> , 2020 , 30, 1905021	15.6	100
35	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. <i>Chemistry of Materials</i> , 2020 , 32, 7602-7617	9.6	30
34	Single-crystal perovskite detectors: development and perspectives. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11664-11674	7.1	13
33	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019 , 7, 1900506	8.1	40
32	Single-Crystal MAPbI ₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019 , 4, 1258-1259	20.1	291
31	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
30	Exploring Organic Metal Halides with Reversible Temperature-Responsive Dual-Emissive Photoluminescence. <i>ChemSusChem</i> , 2019 , 12, 5228	8.3	14
29	Inorganic CsPbI ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019 , 3, 1800239	7.1	160
28	Enhanced Thermal Stability in Perovskite Solar Cells by Assembling 2D/3D Stacking Structures. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 654-658	6.4	313
27	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018 , 30, 1705393	24	328
26	Large electrostrictive response in lead halide perovskites. <i>Nature Materials</i> , 2018 , 17, 1020-1026	27	89
25	Recent development and understanding of polymer/nanocrystal hybrid solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1502-1513	7.8	17

24	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. <i>Solar Rrl</i> , 2017 , 1, 1600020	7.1	21
23	Low-Noise and Large-Linear-Dynamic-Range Photodetectors Based on Hybrid-Perovskite Thin-Single-Crystals. <i>Advanced Materials</i> , 2017 , 29, 1703209	24	208
22	Stabilizing the β Phase of CsPbI ₃ Perovskite by Sulfobetaine Zwitterions in One-Step Spin-Coating Films. <i>Joule</i> , 2017 , 1, 371-382	27.8	344
21	Thin single crystal perovskite solar cells to harvest below-bandgap light absorption. <i>Nature Communications</i> , 2017 , 8, 1890	17.4	326
20	Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High Gain. <i>Nano Letters</i> , 2017 , 17, 7330-7338	11.5	63
19	Unravelling the working junction of aqueous-processed polymer-nanocrystal solar cells towards improved performance. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15791-7	3.6	15
18	High efficiency aqueous-processed MEH-PPV/CdTe hybrid solar cells with a PCE of 4.20%. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1105-1111	13	22
17	Aqueous-Processed Insulating Polymer/Nanocrystal Hybrid Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7101-10	9.5	19
16	Improvement in Open-Circuit Voltage of Thin Film Solar Cells from Aqueous Nanocrystals by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 900-7	9.5	32
15	High-efficiency aqueous-solution-processed hybrid solar cells based on P3HT dots and CdTe nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7146-52	9.5	26
14	Efficient aqueous-processed hybrid solar cells from a polymer with a wide bandgap. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10969-10975	13	30
13	Aqueous-Processed Inorganic Thin-Film Solar Cells Based on CdSe(x)Te(1-x) Nanocrystals: The Impact of Composition on Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23223-30	9.5	44
12	Efficient inorganic solar cells from aqueous nanocrystals: the impact of composition on carrier dynamics. <i>RSC Advances</i> , 2015 , 5, 74263-74269	3.7	21
11	In Situ Construction of Nanoscale CdTe-CdS Bulk Heterojunctions for Inorganic Nanocrystal Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400235	21.8	41
10	Dip-Coated Gold Nanoparticle Electrodes for Aqueous-Solution-Processed Large-Area Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400135	21.8	35
9	Tunable polymer brush/Au NPs hybrid plasmonic arrays based on host-guest interaction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19951-7	9.5	16
8	Aqueous-solution-processed hybrid solar cells with good thermal and morphological stability. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 254-261	6.4	23
7	Conducting the temperature-dependent conformational change of macrocyclic compounds to the lattice dilation of quantum dots for achieving an ultrasensitive nanothermometer. <i>ACS Nano</i> , 2013 , 7, 2273-83	16.7	64

6	From planar-heterojunction to n-i structure: an efficient strategy to improve short-circuit current and power conversion efficiency of aqueous-solution-processed hybrid solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 1597	35.4	72
5	Inverted Hybrid Solar Cells from Aqueous Materials with a PCE of 3.61%. <i>Advanced Energy Materials</i> , 2013 , 3, 433-437	21.8	52
4	Aqueous-solution-processed PPV/Cd _x Hg _{1-x} Te hybrid solar cells with a significant near-infrared contribution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17827		19
3	Construction of nanoparticle superstructures on the basis of host-guest interaction to achieve performance integration and modulation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6119-25	3.6	10
2	Simple Synthesis of Highly Luminescent Water-Soluble CdTe Quantum Dots with Controllable Surface Functionality. <i>Chemistry of Materials</i> , 2011 , 23, 4857-4862	9.6	114
1	Self-Powered FA _{0.55} MA _{0.45} PbI ₃ Single-Crystal Perovskite X-Ray Detectors with High Sensitivity. <i>Advanced Functional Materials</i> , 2109149	15.6	19