Chuantian Zuo

List of Publications by Year
in descending order

62 papers	4,377 citations	159585 30 h-index	123424 61 g-index
63 all docs	63 docs citations	63 times ranked	5147 citing authors

#	Article	IF	Citations
1	Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324.	11.2	482
2	Solution-Processed Cu₂O and CuO as Hole Transport Materials for Efficient Perovskite Solar Cells. Small, 2015, 11, 5528-5532.	10.0	429
3	An 80.11% FF record achieved for perovskite solar cells by using the NH₄Cl additive. Nanoscale, 2014, 6, 9935-9938.	5.6	368
4	One-step roll-to-roll air processed high efficiency perovskite solar cells. Nano Energy, 2018, 46, 185-192.	16.0	271
5	Modified PEDOT Layer Makes a 1.52 V <i>V</i>_{oc} for Perovskite/PCBM Solar Cells. Advanced Energy Materials, 2017, 7, 1601193.	19.5	189
6	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9â^’<i>x</i>}. Angewandte Chemie - International Edition, 2017, 56, 6528-6532.	13.8	180
7	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	8.2	158
8	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. Journal of Semiconductors, 2021, 42, 010501.	3.7	158
9	Selfâ€Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. Advanced Energy Materials, 2019, 9, 1803258.	19.5	149
10	An Electrically Modulated Singleâ€Color/Dualâ€Color Imaging Photodetector. Advanced Materials, 2020, 32, e1907257.	21.0	145
11	Leadâ€Free Perovskite Photodetectors: Progress, Challenges, and Opportunities. Advanced Materials, 2021, 33, e2006691.	21.0	138
12	Charge-transport layer engineering in perovskite solar cells. Science Bulletin, 2020, 65, 1237-1241.	9.0	115
13	CsPb(I Br1â^’)3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
14	Bulk heterojunctions push the photoresponse of perovskite solar cells to 970 nm. Journal of Materials Chemistry A, 2015, 3, 9063-9066.	10.3	96
15	Humidityâ€Tolerant Rollâ€toâ€Roll Fabrication of Perovskite Solar Cells via Polymerâ€Additiveâ€Assisted Hot Slot Die Deposition. Advanced Functional Materials, 2019, 29, 1809194.	14.9	93
16	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	9.0	91
17	Largeâ€Area Bladeâ€Coated Solar Cells: Advances and Perspectives. Advanced Energy Materials, 2021, 11, 2100378.	19.5	77
18	A 2.16Â eV bandgap polymer donor gives 16% power conversion efficiency. Science Bulletin, 2020, 65, 179-181.	9.0	75

#	ARTICLE	IF	CITATIONS
19	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9âˆ’<i>x</i>}. Angewandte Chemie, 2017, 129, 6628-6632.	2.0	69
20	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. Communications Materials, 2020, 1, .	6.9	66
21	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie - International Edition, 2021, 60, 11242-11246.	13.8	64
22	5H-dithieno[3,2-b:2â€²,3â€²-d]pyran-5-one unit yields efficient wide-bandgap polymer donors. Science Bulletin, 2019, 64, 1655-1657.	9.0	55
23	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	9.0	51
24	Revealing the Role of Methylammonium Chloride for Improving the Performance of 2D Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25980-25990.	8.0	47
25	Creating a Dualâ€Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. Small, 2021, 17, e2102368.	10.0	44
26	A Lab-to-Fab Study toward Roll-to-Roll Fabrication of Reproducible Perovskite Solar Cells under Ambient Room Conditions. Cell Reports Physical Science, 2021, 2, 100293.	5.6	39
27	Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. Flexible and Printed Electronics, 2020, 5, 014006.	2.7	37
28	Hexacyclic lactam building blocks for highly efficient polymer solar cells. Chemical Communications, 2015, 51, 12122-12125.	4.1	34
29	Large-area perovskite solar cells. Science Bulletin, 2020, 65, 872-875.	9.0	34
30	A highly efficient fullerene acceptor for polymer solar cells. Physical Chemistry Chemical Physics, 2014, 16, 7205.	2.8	31
31	Inorganic perovskite/organic tandem solar cells with efficiency over 20%. Journal of Semiconductors, 2021, 42, 020501.	3.7	31
32	Controlling Homogenous Spherulitic Crystallization for Highâ€Efficiency Planar Perovskite Solar Cells Fabricated under Ambient Highâ€Humidity Conditions. Small, 2019, 15, e1904422.	10.0	30
33	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 22143-22155.	8.0	27
34	Ambient air-processed Cu2ZnSn(S,Se)4 solar cells with over 12% efficiency. Science Bulletin, 2021, 66, 880-883.	9.0	27
35	Modifying SnO₂ with Polyacrylamide to Enhance the Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34143-34150.	8.0	27
36	Self-spreading produces highly efficient perovskite solar cells. Nano Energy, 2021, 90, 106509.	16.0	26

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37	Adjusting energy level alignment between HTL and CsPbI₂Br to improve solar cell efficiency. Journal of Semiconductors, 2021, 42, 030501.	3.7	21
38	Fully Roll-to-Roll Processed Efficient Perovskite Solar Cells via Precise Control on the Morphology of PbI2:CsI Layer. Nano-Micro Letters, 2022, 14, 79.	27.0	21
39	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie, 2021, 133, 11342-11346.	2.0	20
40	A Fusedâ€Ring Acceptor Unit in Dâ€"A Copolymers Benefits Photovoltaic Performance. Macromolecular Rapid Communications, 2014, 35, 1362-1366.	3.9	18
41	Defect engineering on all-inorganic perovskite solar cells for high efficiency. Journal of Semiconductors, 2021, 42, 050203.	3.7	17
42	Efficient MAPbI₃ solar cells made via drop-coating at room temperature. Journal of Semiconductors, 2021, 42, 072201.	3.7	17
43	Inhibiting octahedral tilting for stable <scp>CsPbI₂Br</scp> solar cells. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	17
44	Drop-Casting Method to Screen Ruddlesdenâ€"Popper Perovskite Formulations for Use in Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 56217-56225.	8.0	17
45	An azafullerene acceptor for organic solar cells. RSC Advances, 2014, 4, 24029.	3.6	15
46	White light-emitting diodes from perovskites. Journal of Semiconductors, 2021, 42, 030202.	3.7	14
47	Low-bandgap Snâ€"Pb perovskite solar cells. Journal of Semiconductors, 2021, 42, 060202.	3.7	14
48	A sandwich-like structural model revealed for quasi-2D perovskite films. Journal of Materials Chemistry C, 2021, 9, 5362-5372.	5.5	14
49	Drop-coating produces efficient CsPbI₂Br solar cells. Journal of Semiconductors, 2021, 42, 050502.	3.7	13
50	Efficient and photostable CsPbI₂Br solar cells realized by adding PMMA. Journal of Semiconductors, 2021, 42, 050501.	3.7	12
51	Carrier management makes perovskite solar cells approaching Shockley-Queisser limit. Science Bulletin, 2021, 66, 1372-1374.	9.0	12
52	F-containing cations improve the performance of perovskite solar cells. Journal of Semiconductors, 2022, 43, 010202.	3.7	12
53	D-A copolymers based on lactam acceptor unit and thiophene derivatives for efficient polymer solar cells. Dyes and Pigments, 2017, 139, 201-207.	3.7	11
54	Replacing indenes on fullerene with CH2 groups benefits photovoltaic performance. Science China Chemistry, 2015, 58, 370-372.	8.2	8

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55	Blue perovskite LEDs. Journal of Semiconductors, 2021, 42, 070201.	3.7	8
56	Progress of the key materials for organic solar cells. Scientia Sinica Chimica, 2020, 50, 437-446.	0.4	8
57	A wide-bandgap copolymer donor based on a phenanthridin-6(5<i>H</i>)-one unit. Materials Chemistry Frontiers, 2019, 3, 2686-2689.	5.9	6
58	Monolithic perovskite/silicon tandem solar cells offer an efficiency over 29%. Journal of Semiconductors, 2021, 42, 120203.	3.7	6
59	GIWAXS: A powerful tool for perovskite photovoltaics. Journal of Semiconductors, 2021, 42, 060201.	3.7	4
60	Wide-bandgap perovskites for indoor photovoltaics. Science Bulletin, 2021, 66, 2047-2049.	9.0	4
61	Intramolecular spatial charge transfer enhances TADF efficiency. Journal of Semiconductors, 2021, 42, 050201.	3.7	1
62	Organic perovskites. Journal of Semiconductors, 2021, 42, 040201.	3.7	0