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	Inhibiting octahedral tilting for stable <scp>CsPbI₂Br</scp> solar cells. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	17
2	F-containing cations improve the performance of perovskite solar cells. Journal of Semiconductors, 2022, 43, 010202.	3.7	12
3	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
4	Modifying SnO₂ with Polyacrylamide to Enhance the Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34143-34150.	8.0	27
5	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	9.0	91
6	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
7	Inorganic perovskite/organic tandem solar cells with efficiency over 20%. Journal of Semiconductors, 2021, 42, 020501.	3.7	31
8	Adjusting energy level alignment between HTL and CsPbI₂Br to improve solar cell efficiency. Journal of Semiconductors, 2021, 42, 030501.	3.7	21
9	White light-emitting diodes from perovskites. Journal of Semiconductors, 2021, 42, 030202.	3.7	14
10	Largeâ€Area Bladeâ€Coated Solar Cells: Advances and Perspectives. Advanced Energy Materials, 2021, 11, 2100378.	19.5	77
11	Organic perovskites. Journal of Semiconductors, 2021, 42, 040201.	3.7	0
12	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie, 2021, 133, 11342-11346.	2.0	20
13	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie - International Edition, 2021, 60, 11242-11246.	13.8	64
14	Intramolecular spatial charge transfer enhances TADF efficiency. Journal of Semiconductors, 2021, 42, 050201.	3.7	1
15	Defect engineering on all-inorganic perovskite solar cells for high efficiency. Journal of Semiconductors, 2021, 42, 050203.	3.7	17
16	Efficient and photostable CsPbI₂Br solar cells realized by adding PMMA. Journal of Semiconductors, 2021, 42, 050501.	3.7	12
17	Drop-coating produces efficient CsPbI₂Br solar cells. Journal of Semiconductors, 2021, 42, 050502.	3.7	13
18	Ambient air-processed Cu2ZnSn(S,Se)4 solar cells with over 12% efficiency. Science Bulletin, 2021, 66, 880-883.	9.0	27

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19	Leadâ€Free Perovskite Photodetectors: Progress, Challenges, and Opportunities. Advanced Materials, 2021, 33, e2006691.	21.0	138
20	GIWAXS: A powerful tool for perovskite photovoltaics. Journal of Semiconductors, 2021, 42, 060201.	3.7	4
21	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
22	Low-bandgap Snâ€“Pb perovskite solar cells. Journal of Semiconductors, 2021, 42, 060202.	3.7	14
23	Carrier management makes perovskite solar cells approaching Shockley-Queisser limit. Science Bulletin, 2021, 66, 1372-1374.	9.0	12
24	Efficient MAPbI₃ solar cells made via drop-coating at room temperature. Journal of Semiconductors, 2021, 42, 072201.	3.7	17
25	Blue perovskite LEDs. Journal of Semiconductors, 2021, 42, 070201.	3.7	8
26	Wide-bandgap perovskites for indoor photovoltaics. Science Bulletin, 2021, 66, 2047-2049.	9.0	4
27	Self-spreading produces highly efficient perovskite solar cells. Nano Energy, 2021, 90, 106509.	16.0	26
28	A sandwich-like structural model revealed for quasi-2D perovskite films. Journal of Materials Chemistry C, 2021, 9, 5362-5372.	5.5	14
29	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. Journal of Semiconductors, 2021, 42, 010501.	3.7	158
30	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
31	Monolithic perovskite/silicon tandem solar cells offer an efficiency over 29%. Journal of Semiconductors, 2021, 42, 120203.	3.7	6
32	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
33	A 2.16ÂeV bandgap polymer donor gives 16% power conversion efficiency. Science Bulletin, 2020, 65, 179-181.	9.0	75
34	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
35	An Electrically Modulated Singleâ€Color/Dualâ€Color Imaging Photodetector. Advanced Materials, 2020, 32, e1907257.	21.0	145
36	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. Communications Materials, 2020, 1, .	6.9	66

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37	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	8.2	158
38	Large-area perovskite solar cells. Science Bulletin, 2020, 65, 872-875.	9.0	34
39	Charge-transport layer engineering in perovskite solar cells. Science Bulletin, 2020, 65, 1237-1241.	9.0	115
40	Progress of the key materials for organic solar cells. Scientia Sinica Chimica, 2020, 50, 437-446.	0.4	8
41	CsPb(I Br1â˘’)3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
42	Controlling Homogenous Spherulitic Crystallization for Highâ€Efficiency Planar Perovskite Solar Cells Fabricated under Ambient Highâ€Humidity Conditions. Small, 2019, 15, e1904422.	10.0	30
43	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	9.0	51
44	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
45	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
46	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
47	Selfâ€Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. Advanced Energy Materials, 2019, 9, 1803258.	19.5	149
48	One-step roll-to-roll air processed high efficiency perovskite solar cells. Nano Energy, 2018, 46, 185-192.	16.0	271
49	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
50	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9â˘’<i>x</i>}. Angewandte Chemie, 2017, 129, 6628-6632.	2.0	69
51	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9â˘’<i>x</i>}. Angewandte Chemie - International Edition, 2017, 56, 6528-6532.	13.8	180
52	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
53	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
54	Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324.	11.2	482

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55	Solution-Processed Cu₂O and CuO as Hole Transport Materials for Efficient Perovskite Solar Cells. Small, 2015, 11, 5528-5532.	10.0	429
56	Hexacyclic lactam building blocks for highly efficient polymer solar cells. Chemical Communications, 2015, 51, 12122-12125.	4.1	34
57	Bulk heterojunctions push the photoresponse of perovskite solar cells to 970 nm. Journal of Materials Chemistry A, 2015, 3, 9063-9066.	10.3	96
58	Replacing indenes on fullerene with CH2 groups benefits photovoltaic performance. Science China Chemistry, 2015, 58, 370-372.	8.2	8
59	A Fusedâ€Ring Acceptor Unit in Dâ€“A Copolymers Benefits Photovoltaic Performance. Macromolecular Rapid Communications, 2014, 35, 1362-1366.	3.9	18
60	A highly efficient fullerene acceptor for polymer solar cells. Physical Chemistry Chemical Physics, 2014, 16, 7205.	2.8	31
61	An azafullerene acceptor for organic solar cells. RSC Advances, 2014, 4, 24029.	3.6	15
62	An 80.11% FF record achieved for perovskite solar cells by using the NH₄Cl additive. Nanoscale, 2014, 6, 9935-9938.	5.6	368