

Qidong Tai

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33
papers

2,585
citations

19
h-index

34
g-index

34
ext. papers

3,023
ext. citations

12.8
avg. IF

5.61
L-index

#	Paper	IF	Citations
33	Efficient and stable perovskite solar cells prepared in ambient air irrespective of the humidity. <i>Nature Communications</i> , 2016 , 7, 11105	17.4	389
32	Efficient Semitransparent Perovskite Solar Cells with Graphene Electrodes. <i>Advanced Materials</i> , 2015 , 27, 3632-8	24	387
31	In situ prepared transparent polyaniline electrode and its application in bifacial dye-sensitized solar cells. <i>ACS Nano</i> , 2011 , 5, 3795-9	16.7	357
30	Recent progress of inorganic perovskite solar cells. <i>Energy and Environmental Science</i> , 2019 , 12, 2375-2405	15.4	271
29	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 806-810	16.4	245
28	Emerging Semitransparent Solar Cells: Materials and Device Design. <i>Advanced Materials</i> , 2017 , 29, 17001-17002	12.7	154
27	Solution-Phase Epitaxial Growth of Perovskite Films on 2D Material Flakes for High-Performance Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1807689	24	115
26	Performance Enhancement of Perovskite Solar Cells Induced by Lead Acetate as an Additive. <i>Solar Rrl</i> , 2018 , 2, 1800066	7.1	74
25	Sn-Based Perovskite for Highly Sensitive Photodetectors. <i>Advanced Science</i> , 2019 , 6, 1900751	13.6	73
24	Highly Air-Stable Tin-Based Perovskite Solar Cells through Grain-Surface Protection by Gallic Acid. <i>ACS Energy Letters</i> , 2020 , 5, 1741-1749	20.1	68
23	Enhanced performance of tin-based perovskite solar cells induced by an ammonium hypophosphite additive. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26580-26585	13	65
22	Enhanced photovoltaic performance of polymer solar cells by adding fullerene end-capped polyethylene glycol. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6848		64
21	Improvement in dye-sensitized solar cells with a ZnO-coated TiO ₂ electrode by rf magnetron sputtering. <i>Applied Physics Letters</i> , 2008 , 92, 122106	3.4	63
20	Investigation of High-Performance Air-Processed Poly(3-hexylthiophene)/Methanofullerene Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21873-21877	3.8	40
19	Recent advances toward efficient and stable tin-based perovskite solar cells. <i>EcoMat</i> , 2019 , 1, e12004	9.4	33
18	Two dimensional graphitic carbon nitride quantum dots modified perovskite solar cells and photodetectors with high performances. <i>Journal of Power Sources</i> , 2020 , 451, 227825	8.9	27
17	2D materials for conducting holes from grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021 , 10, 68	16.7	26

16	Efficient and stable flexible perovskite solar cells based on graphene-AgNWs substrate and carbon electrode without hole transport materials. <i>Journal of Power Sources</i> , 2021 , 482, 228953	8.9	23
15	High performance planar perovskite solar cells based on CH ₃ NH ₃ PbI _{3-x} (SCN) _x perovskite film and SnO ₂ electron transport layer prepared in ambient air with 70% humidity. <i>Electrochimica Acta</i> , 2018 , 260, 468-476	6.7	21
14	Lead-Free Perovskite/Organic Semiconductor Vertical Heterojunction for Highly Sensitive Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18769-18776	9.5	16
13	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 816-820	3.6	15
12	Extended Spiro Core-Based Nonfullerene Electron-Transporting Material for High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001073	15.6	10
11	Reducing the Energy Loss to Achieve High Open-circuit Voltage and Efficiency by Coordinating Energy-Level Matching in SnPb Binary Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100287	7.1	10
10	Achieving Efficient and Stable Perovskite Solar Cells in Ambient Air Through Non-Halide Engineering. <i>Advanced Energy Materials</i> , 2021 , 11, 2102169	21.8	7
9	FA/MA Cation Exchange for Efficient and Reproducible Tin-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40656-40663	9.5	7
8	Optimized crystallization and defect passivation with Yttrium (III) doped MAPbBr ₃ film for highly efficient and stable hole-transport-layer-free carbon-based perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2022 , 890, 161909	5.7	4
7	Assays: Electrospun TiO ₂ Nanofiber-Based Cell Capture Assay for Detecting Circulating Tumor Cells from Colorectal and Gastric Cancer Patients (Adv. Mater. 20/2012). <i>Advanced Materials</i> , 2012 , 24, 2755-2755	24.5	3
6	NiO x Nanocrystals with Tunable Size and Energy Levels for Efficient and UV Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2203049	15.6	3
5	Synergistic effects of the zinc acetate additive on the performance enhancement of Sn-based perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1995-2000	7.8	2
4	Solution-processed NiO x nanoparticles with a wide pH window as an efficient hole transport material for high performance tin-based perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 144002	3	2
3	A methylene bridged bisimidazolium iodide based low-volatility electrolyte for efficient dye-sensitized solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2013 , 5, 043121	2.5	1
2	In situ carbon coating for enhanced chemical stability of copper nanowires. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 557-562	3.1	0
1	Modulated crystal growth enables efficient and stable perovskite solar cells in humid air. <i>Chemical Engineering Journal</i> , 2022 , 136267	14.7	0