Dongqin Bi

List of Publications by Citations

34 papers	6,567 citations	26 h-index	34 g-index
34 ext. papers	7,315 ext. citations	15.6 avg, IF	5.86 L-index

#	Paper	IF	Citations
34	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater than 21%. *Nature Energy*, **2016**, 1,	62.3	1422
33	A vacuum flash-assisted solution process for high-efficiency large-area perovskite solar cells. *Science*, **2016**, 353, 58-62	33.3	1406
32	Effect of Different Hole Transport Materials on Recombination in CH3NH3PbI3 Perovskite-Sensitized Mesoscopic Solar Cells. *Journal of Physical Chemistry Letters*, **2013**, 4, 1532-6	6.4	425
31	Electronic Structure of TiO2/CH3NH3PbI3 Perovskite Solar Cell Interfaces. *Journal of Physical Chemistry Letters*, **2014**, 5, 648-53	6.4	384
30	Using a two-step deposition technique to prepare perovskite (CH3NH3PbI3) for thin film solar cells based on ZrO2 and TiO2 mesostructures. *RSC Advances*, **2013**, 3, 18762	3.7	369
29	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. *Advanced Materials*, **2017**, 29, 1606806	24	276
28	Efficient and stable CH3NH3PbI3-sensitized ZnO nanorod array solid-state solar cells. *Nanoscale*, **2013**, 5, 11686-91	7.7	253
27	High-Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphile-Modified CH3 NH3 PbI3. *Advanced Materials*, **2016**, 28, 2910-5	24	207
26	Suppressing defects through the synergistic effect of a Lewis base and a Lewis acid for highly efficient and stable perovskite solar cells. *Energy and Environmental Science*, **2018**, 11, 3480-3490	35.4	202
25	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. *Nano Energy*, **2017**, 41, 469-475	17.1	191
24	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. *Nature Communications*, **2018**, 9, 4482	17.4	189
23	Formation of Stable Mixed Guanidinium-Methylammonium Phases with Exceptionally Long Carrier Lifetimes for High-Efficiency Lead Iodide-Based Perovskite Photovoltaics. *Journal of the American Chemical Society*, **2018**, 140, 3345-3351	16.4	183
22	Transparent Cuprous Oxide Photocathode Enabling a Stacked Tandem Cell for Unbiased Water Splitting. *Advanced Energy Materials*, **2015**, 5, 1501537	21.8	123
21	Bipolar Membrane-Assisted Solar Water Splitting in Optimal pH. *Advanced Energy Materials*, **2016**, 6, 1600100	21.8	108
20	Electronic Structure of CH3NH3PbX3 Perovskites: Dependence on the Halide Moiety. *Journal of Physical Chemistry C*, **2015**, 119, 1818-1825	3.8	105
19	Unraveling the Effect of PbI2 Concentration on Charge Recombination Kinetics in Perovskite Solar Cells. *ACS Photonics*, **2015**, 2, 589-594	6.3	86
18	Adamantanes Enhance the Photovoltaic Performance and Operational Stability of Perovskite Solar Cells by Effective Mitigation of Interfacial Defect States. *Advanced Energy Materials*, **2018**, 8, 1800275	21.8	86

List of Publications

17	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 16330-16334	13	78
16	Dopant-Free Donor (D)-ED-ED Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. *ChemSusChem*, **2016**, 9, 2578-2585	8.3	75
15	Efficient solid state dye-sensitized solar cells based on an oligomer hole transport material and an organic dye. *Journal of Materials Chemistry A*, **2013**, 1, 14467	13	62
14	Improved morphology control using a modified two-step method for efficient perovskite solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 18751-7	9.5	54
13	High-Efficiency Perovskite Solar Cells Employing a S,N-Heteropentacene-based D-A Hole-Transport Material. *ChemSusChem*, **2016**, 9, 433-8	8.3	53
12	Stable Layered 2D Perovskite Solar Cells with an Efficiency of over 19% via Multifunctional Interfacial Engineering. *Journal of the American Chemical Society*, **2021**, 143, 3911-3917	16.4	42
11	Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. *ChemSusChem*, **2017**, 10, 1624-1630	8.3	40
10	HIGH-EFFICIENT SOLID-STATE PEROVSKITE SOLAR CELL WITHOUT LITHIUM SALT IN THE HOLE TRANSPORT MATERIAL. *Nano*, **2014**, 09, 1440001	1.1	32
9	New Approach for Preparation of Efficient Solid-State Dye-Sensitized Solar Cells by Photoelectrochemical Polymerization in Aqueous Micellar Solution. *Journal of Physical Chemistry Letters*, **2013**, 4, 4026-4031	6.4	29
8	Perovskitoid-Templated Formation of a 1D@3D Perovskite Structure toward Highly Efficient and Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2101018	21.8	22
7	Recent Progress of Critical Interface Engineering for Highly Efficient and Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2022**, 12, 2102730	21.8	17
6	Toward highly efficient and stable Sn2+ and mixed Pb2+/Sn2+ based halide perovskite solar cells through device engineering. *Energy and Environmental Science*, **2021**, 14, 3256-3300	35.4	16
5	Molecularly Tailored SnO2/Perovskite Interface Enabling Efficient and Stable FAPbI3 Solar Cells. *ACS Energy Letters*,929-938	20.1	13
4	Review of Two-Step Method for Lead Halide Perovskite Solar Cells. *Solar Rrl*,	7.1	7
3	Hydrophobic Fluorinated Conjugated Polymer as a Multifunctional Interlayer for High-Performance Perovskite Solar Cells. *ACS Photonics*,	6.3	6
2	In Situ Perovskitoid Engineering at SnO Interface toward Highly Efficient and Stable Formamidinium Lead Triiodide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2021**, 12, 10567-10573	6.4	4
1	Multistrategy Toward Highly Efficient and Stable CsPbI 2 Br Perovskite Solar Cells Based on Dopant-Free Poly(3-Hexylthiophene). *Solar Rrl*,2100880	7.1	2