Wenze Li

List of Publications by Year
in descending order

54 papers	6,010 citations	147726 31 h-index	168321 53 g-index
54 all docs	54 docs citations	54 times ranked	7720 citing authors

#	Article	IF	Citations
1	Study on the stability of CH₃NH₃PbI₃films and the effect of post-modification by aluminum oxide in all-solid-state hybrid solar cells. Journal of Materials Chemistry A, 2014, 2, 705-710.	5.2	963
2	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030.	5.8	620
3	Enhanced UV-light stability of planar heterojunction perovskite solar cells with caesium bromide interface modification. Energy and Environmental Science, 2016, 9, 490-498.	15.6	535
4	All-Inorganic CsPbI₂Br Perovskite Solar Cells with High Efficiency Exceeding 13%. Journal of the American Chemical Society, 2018, 140, 3825-3828.	6.6	505
5	Controllable Grain Morphology of Perovskite Absorber Film by Molecular Self-Assembly toward Efficient Solar Cell Exceeding 17%. Journal of the American Chemical Society, 2015, 137, 10399-10405.	6.6	347
6	Montmorillonite as bifunctional buffer layer material for hybrid perovskite solar cells with protection from corrosion and retarding recombination. Journal of Materials Chemistry A, 2014, 2, 13587-13592.	5.2	277
7	Addictive-assisted construction of all-inorganic CsSnIBr₂mesoscopic perovskite solar cells with superior thermal stability up to 473 K. Journal of Materials Chemistry A, 2016, 4, 17104-17110.	5.2	250
8	Stable Î±/Î´ phase junction of formamidinium lead iodide perovskites for enhanced near-infrared emission. Chemical Science, 2017, 8, 800-805.	3.7	199
9	Graphene oxide as dual functional interface modifier for improving wettability and retarding recombination in hybrid perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 20105-20111.	5.2	194
10	Structurally Reconstructed CsPbI₂Br Perovskite for Highly Stable and Squareâ€Centimeter Allâ€Inorganic Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803572.	10.2	192
11	Ultra-thin MoOx as cathode buffer layer for the improvement of all-inorganic CsPbIBr2 perovskite solar cells. Nano Energy, 2017, 41, 75-83.	8.2	190
12	Enhancement of thermal stability for perovskite solar cells through cesium doping. RSC Advances, 2017, 7, 17473-17479.	1.7	178
13	Thermodynamically Selfâ€Healing 1Dâ€“3D Hybrid Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1703421.	10.2	158
14	In Situ Regulating the Orderâ€“Disorder Phase Transition in Cs₂AgBiBr₆ Single Crystal toward the Application in an Xâ€Ray Detector. Advanced Functional Materials, 2019, 29, 1900234.	7.8	114
15	High performance organic-inorganic perovskite-optocoupler based on low-voltage and fast response perovskite compound photodetector. Scientific Reports, 2015, 5, 7902.	1.6	104
16	Effect of cesium chloride modification on the film morphology and UV-induced stability of planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 11688-11695.	5.2	103
17	Post modification of perovskite sensitized solar cells by aluminum oxide for enhanced performance. Journal of Materials Chemistry A, 2013, 1, 11735.	5.2	96
18	<i>In situ</i> induced core/shell stabilized hybrid perovskites <i>via</i> gallium(<scp>iii</scp>) acetylacetonate intermediate towards highly efficient and stable solar cells. Energy and Environmental Science, 2018, 11, 286-293.	15.6	79

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19	C₆₀ additive-assisted crystallization in CH₃NH₃Pb_{0.75}Sn_{0.25}I₃ perovskite solar cells with high stability and efficiency. Nanoscale, 2017, 9, 13967-13975.	2.8	71
20	Multifunctional MgO Layer in Perovskite Solar Cells. ChemPhysChem, 2015, 16, 1727-1732.	1.0	70
21	Multifunctional perovskite capping layers in hybrid solar cells. Journal of Materials Chemistry A, 2014, 2, 14973.	5.2	57
22	Oxygen doping in nickel oxide for highly efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 4721-4728.	5.2	57
23	Latticeâ€Matching Structurallyâ€Stable 1D@3D Perovskites toward Highly Efficient and Stable Solar Cells. Advanced Energy Materials, 2020, 10, 1903654.	10.2	50
24	An Emerging Leadâ€Free Doubleâ€Perovskite Cs₂AgFeCl₆:In Single Crystal. Advanced Functional Materials, 2020, 30, 2002225.	7.8	48
25	Progress of interface engineering in perovskite solar cells. Science China Materials, 2016, 59, 728-742.	3.5	43
26	A brief review on the lead element substitution in perovskite solar cells. Journal of Energy Chemistry, 2018, 27, 1054-1066.	7.1	38
27	Structurally Stabilizing and Environment Friendly Triggers: Doubleâ€Metallic Leadâ€Free Perovskites. Solar Rrl, 2019, 3, 1900148.	3.1	36
28	Chromiumâ€Based Metalâ€"Organic Framework as Aâ€Site Cation in CsPbI₂Br Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2106233.	7.8	36
29	Controllable Cs<i>_x</i>FA_{1â€"<i>x</i>}PbI₃ Single-Crystal Morphology via Rationally Regulating the Diffusion and Collision of Micelles toward High-Performance Photon Detectors. ACS Applied Materials & Interfaces, 2019, 11, 13812-13821.	4.0	35
30	Aquointermediate Assisted Highly Orientated Perovskite Thin Films toward Thermally Stable and Efficient Solar Cells. Advanced Energy Materials, 2017, 7, 1601433.	10.2	34
31	Cesium carbonate as a surface modification material for organicâ€"inorganic hybrid perovskite solar cells with enhanced performance. RSC Advances, 2014, 4, 60131-60134.	1.7	31
32	High Performance of Perovskite Solar Cells via Catalytic Treatment in Two-Step Process: The Case of Solvent Engineering. ACS Applied Materials & Interfaces, 2016, 8, 30107-30115.	4.0	28
33	Molecular Selfâ€Assembly Fabrication and Carrier Dynamics of Stable and Efficient CH₃NH₃Pb_(1â^'<i>x</i>)Sn_{<i>x</i>}I₃ Perovskite Solar Cells. ChemSusChem, 2017, 10, 3839-3845.	3.6	28
34	Engineered Electronic Structure and Carrier Dynamics in Emerging Cs₂Ag_{<i>x</i>}Na_{1â€"<i>x</i>}FeCl₆ Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 9535-9542.	2.1	27
35	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. Light: Science and Applications, 2021, 10, 8.	7.7	26
36	Ï€-Ï€ conjugate structure enabling the channel construction of carrier-facilitated transport in 1Dâ€"3D multidimensional CsPbI2Br solar cells with high stability. Nano Energy, 2021, 89, 106340.	8.2	20

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37	Enhanced performance in hybrid perovskite solar cell by modification with spinel lithium titanate. Journal of Materials Chemistry A, 2015, 3, 8882-8889.	5.2	19
38	Alleviation of Ï€â€“Ï€* Transition Enabling Enhanced Luminescence in Emerging TpyInCl<i>_x</i> (<i>x</i>Â= 3, 5) Perovskite Single Crystals. Advanced Optical Materials, 2022, 10, .	3.6	19
39	Architecturing 1Dâ€2Dâ€3D Multidimensional Coupled CsPbI₂Br Perovskites toward Highly Effective and Stable Solar Cells. Small, 2021, 17, e2100888.	5.2	17
40	An Emerging All-Inorganic CsSn_{<i>x</i>}Pb_{1â€“<i>x</i>}Br₃ (0 â‰) Tj ETQq0 0 0 rgBT /Overlock 1 Properties. Journal of Physical Chemistry C, 2020, 124, 13434-13446.	1.5	16
41	Regulation of the orderâ€“disorder phase transition in a Cs₂NaFeCl₆ double perovskite towards reversible thermochromic application. Journal of Semiconductors, 2021, 42, 072202.	2.0	15
42	Enhanced efficiency and stability of inverted perovskite solar cells by interfacial engineering with alkyl bisphosphonic molecules. RSC Advances, 2017, 7, 42105-42112.	1.7	13
43	Enhanced charge collection and stability in planar perovskite solar cells based on a cobalt(<scp>iii</scp>)-complex additive. RSC Advances, 2017, 7, 37654-37658.	1.7	9
44	High quality perovskite thin films induced by crystal seeds with lead monoxide interfacial engineering. Journal of Materials Chemistry A, 2016, 4, 16913-16919.	5.2	8
45	Crystallization Dependent Stability of Perovskite Solar Cells With Different Hole Transporting Layers. Solar Rrl, 2017, 1, 1700141.	3.1	7
46	Dimensionally and structurally controllable perovskite single crystals: nickel(<scp>ii</scp>)â€“terpyridine complex (Niâ€“Tpy₂)-based perovskites. CrystEngComm, 2020, 22, 1904-1908.	1.3	7
47	Terpyridine-derived perovskite single crystals with tunable structures and electronic dimensionality. RSC Advances, 2021, 11, 24816-24821.	1.7	7
48	Electron Delocalization and Structure Coupling Promoted Ï€-Conjugated Charge Transport in a Novel [Ga-Tpy₂]PbI₅ Perovskite-like Single Crystal. Journal of Physical Chemistry Letters, 2021, 12, 5571-5579.	2.1	7
49	Ambient Air Temperature Assisted Crystallization for Inorganic CsPbI2Br Perovskite Solar Cells. Molecules, 2021, 26, 3398.	1.7	6
50	Enhanced Charge Transport by Regulating the Electronic Structure in 2D Tin-Based Perovskite Solar Cells. Journal of Physical Chemistry C, 2022, 126, 9425-9436.	1.5	6
51	Multiple Electronic Transition-Induced Anomalous Broadband Absorption in a New Class of [Ni-Tpy₂]-Based Lead-Free Perovskite Single Crystals. Journal of Physical Chemistry C, 2021, 125, 15579-15589.	1.5	5
52	Oriented mesoporous TiO2 film as photoanode for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 8023.	5.2	4
53	Multidimensional perovskites enhance solar cell performance. Journal of Semiconductors, 2021, 42, 020201.	2.0	4
54	Picolylamine Isomers Trigger Multidimension Coupling Strategy toward Efficient and Stable Inorganic Perovskite Solar Cells. Solar Rrl, 0, , .	3.1	2