

He Xi

List of Publications by Year in descending order

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papers

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331538

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Mixed-solvent-vapor annealing of perovskite for photovoltaic device efficiency enhancement. <i>Nano Energy</i> , 2016, 28, 417-425.	8.2	114
2	Dual-Phase CsPbCl ₃ â€“Cs ₄ PbCl ₆ Perovskite Films for Self-Powered, Visible-Blind UV Photodetectors with Fast Response. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32961-32969.	4.0	114
3	High-Efficiency (>14%) and Air-Stable Carbon-Based, All-Inorganic CsPbI ₂ Br Perovskite Solar Cells through a Top-Seeded Growth Strategy. <i>ACS Energy Letters</i> , 0, , 1500-1510.	8.8	106
4	Enhanced efficiency of planar perovskite solar cells via a two-step deposition using DMF as an additive to optimize the crystal growth behavior. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13032-13038.	5.2	82
5	Performance Enhancement of Planar Heterojunction Perovskite Solar Cells through Tuning the Doping Properties of Hole-Transporting Materials. <i>ACS Omega</i> , 2017, 2, 326-336.	1.6	72
6	Boosting performance of perovskite solar cells with Graphene quantum dots decorated SnO ₂ electron transport layers. <i>Applied Surface Science</i> , 2020, 507, 145099.	3.1	66
7	Elucidating the Roles of TiCl ₄ and PCBM Fullerene Treatment on TiO ₂ Electron Transporting Layer for Highly Efficient Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1044-1053.	1.5	57
8	Efficient bifacial semitransparent perovskite solar cells with silver thin film electrode. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 278-286.	3.0	55
9	Efficient Bifacial Semitransparent Perovskite Solar Cells Using Ag/V ₂ O ₅ as Transparent Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12731-12739.	4.0	46
10	Seawater splitting for hydrogen evolution by robust electrocatalysts from secondaryâ€“ (M = Cr, Fe,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.7	43
11	Recycling of FTO/TiO ₂ Substrates: Route toward Simultaneously High-Performance and Cost-Efficient Carbon-Based, All-Inorganic CsPbI ₂ Br Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4549-4557.	4.0	38
12	Benign Pinholes in CsPbI ₂ Br Absorber Film Enable Efficient Carbon-Based, All-Inorganic Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 5254-5262.	2.5	37
13	Efficient NiO<i>x</i> Hole Transporting Layer Obtained by the Oxidation of Metal Nickel Film for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 4700-4707.	2.5	37
14	Improving Electron Extraction Ability and Device Stability of Perovskite Solar Cells Using a Compatible PCBM/AZO Electron Transporting Bilayer. <i>Nanomaterials</i> , 2018, 8, 720.	1.9	34
15	Intermediate Phase Halide Exchange Strategy toward a High-Quality, Thick CsPbBr ₃ Film for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22543-22549.	4.0	34
16	Suppressing Halide Phase Segregation in CsPbI ₂ Br Films by Polymer Modification for Hysteresis-Less All-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2868-2878.	4.0	34
17	Effects of Annealing Conditions on Mixed Lead Halide Perovskite Solar Cells and Their Thermal Stability Investigation. <i>Materials</i> , 2017, 10, 837.	1.3	30
18	Sacrificial additive-assisted film growth endows self-powered CsPbBr ₃ photodetectors with ultra-low dark current and high sensitivity. <i>Journal of Materials Chemistry C</i> , 2020, 8, 209-218.	2.7	28

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19	A sensitive pyridine-containing turn-off fluorescent probe for pH detection. <i>Materials Letters</i> , 2019, 236, 9-12.	1.3	27
20	Ultrawide Band Gap Oxide Semiconductor-Triggered Performance Improvement of Perovskite Solar Cells via the Novel Ga ₂ O ₃ /SnO ₂ Composite Electron-Transporting Bilayer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54703-54710.	4.0	26
21	Suppressing intrinsic self-doping of CsPbI ₂ Br ₂ films for high-performance all-inorganic, carbon-based perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4506-4515.	2.5	25
22	Efficient planar perovskite solar cells with low-temperature atomic layer deposited TiO ₂ electron transport layer and interfacial modifier. <i>Solar Energy</i> , 2019, 188, 239-246.	2.9	24
23	Efficient Ni/Au Mesh Transparent Electrodes for ITO-Free Planar Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 932.	1.9	23
24	High performance transient organic solar cells on biodegradable polyvinyl alcohol composite substrates. <i>RSC Advances</i> , 2017, 7, 52930-52937.	1.7	22
25	An acidic pH fluorescent probe based on Tröger's base. <i>RSC Advances</i> , 2017, 7, 55577-55581.	1.7	20
26	Annealing-Free, High-Performance Perovskite Solar Cells by Controlling Crystallization via Guanidinium Cation Doping. <i>Solar Rrl</i> , 2021, 5, 2100097.	3.1	13
27	Intermediate Phase-Assisted Sequential Deposition Toward 15.24% Efficiency Carbon Electrode CsPbI ₂ Br Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	13
28	A Modulated Double-Passivation Strategy Toward Highly Efficient Perovskite Solar Cells with Efficiency Over 21%. <i>Solar Rrl</i> , 2019, 3, 1900291.	3.1	12
29	Enhancing material quality and device performance of perovskite solar cells via a facile regrowth way assisted by the DMF/Chlorobenzene mixed solution. <i>Organic Electronics</i> , 2019, 70, 300-305.	1.4	11
30	Highly efficient bifacial CsPbI ₂ Br ₂ solar cells with a TeO ₂ /Ag transparent electrode and unsymmetrical carrier transport behavior. <i>Dalton Transactions</i> , 2020, 49, 6012-6019.	1.6	11
31	Alleviating hysteresis and improving efficiency of MA _{1-y} FA _y PbI _{3-x} Br _x perovskite solar cells by controlling the halide composition. <i>Journal of Materials Science</i> , 2018, 53, 16500-16510.	1.7	10
32	Generic water-based spray-assisted growth for scalable high-efficiency carbon-electrode all-inorganic perovskite solar cells. <i>IScience</i> , 2021, 24, 103365.	1.9	10
33	Performance enhancement of perovskite solar cells via material quality improvement assisted by MAI/IPA solution post-treatment. <i>Dalton Transactions</i> , 2019, 48, 5292-5298.	1.6	8
34	High-Purity, Thick CsPbCl ₃ Films toward Selective Ultraviolet-Harvesting Visibly Transparent Photovoltaics. <i>ACS Applied Energy Materials</i> , 2021, 4, 12121-12127.	2.5	8
35	Efficient Semitransparent Perovskite Solar Cells Using a Transparent Silver Electrode and Four-Terminal Perovskite/Silicon Tandem Device Exploration. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-8.	1.5	7
36	Simulation study towards high performance transparent-conductive-oxide free perovskite solar cells using metal microcavity and optical coupling layer. <i>IEEE Photonics Journal</i> , 2018, , 1-1.	1.0	6

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37	Performance Enhancement of All-Inorganic Carbon-Based CsPbI ₂ Br ₂ Perovskite Solar Cells Using a Moth-Eye Anti-Reflector. <i>Nanomaterials</i> , 2021, 11, 2726.	1.9	5
38	Simple and Convenient Interface Modification by Nanosized Diamond for Carbon Based All-Inorganic CsPbI ₂ Br ₂ Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 5661-5667.	2.5	4
39	Efficient planar heterojunction solar cell employing CH ₃ NH ₃ PbI _{2-x} Cl _{1+x} mixed halide perovskite utilizing modified sequential deposition. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 092301.	0.8	3
40	Interfacial Dipole poly(2-ethyl-2-oxazoline) Modification Triggers Simultaneous Band Alignment and Passivation for Air-Stable Perovskite Solar Cells. <i>Polymers</i> , 2022, 14, 2748.	2.0	2
41	Wide-Bandgap All-Inorganic CsPbI ₂ Br ₂ Top Cells With MoO _x /Ag/TeO ₂ Composite Transparent Anode Towards Efficient Four-Terminal Perovskite/Si Tandem Solar Cells. <i>IEEE Photonics Journal</i> , 2021, 13, 1-8.	1.0	1
42	Transparent Ultrathin Metal Electrode with Microcavity Configuration for Highly Efficient TCO-Free Perovskite Solar Cells. <i>Materials</i> , 2020, 13, 2328.	1.3	1
43	All-Inorganic Two-Dimensional Ruddlesden-Popper Perovskite Cs ₂ PbI ₂ Cl ₂ Nanosheet Films for Self-Powered, Visible-Blind UV Photodetectors. , 2021, , .		0