

Yan Jiang

List of Publications by Year in descending order

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4,219
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201674

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times ranked

5561
citing authors

#	ARTICLE	IF	CITATIONS
1	Hole transporting materials in inorganic CsPbI ₃ ~Br solar cells: Fundamentals, criteria and opportunities. <i>Materials Today</i> , 2022, 52, 250-268.	14.2	20
2	Strain relaxation and domain enlargement via phase transition towards efficient CsPbI ₂ Br solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3513-3521.	10.3	11
3	Perovskite solar cells by vapor deposition based and assisted methods. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	33
4	Metal halide perovskite-based flexible tandem solar cells: next-generation flexible photovoltaic technology. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4833-4850.	5.9	15
5	Metal halide perovskite solar cells by modified chemical vapor deposition. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22759-22780.	10.3	22
6	Electrical Loss Management by Molecularly Manipulating Dopant-free Poly(3-hexylthiophene) towards 16.93% CsPbI ₂ Br Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 16524-16529.	2.0	18
7	Electrical Loss Management by Molecularly Manipulating Dopant-free Poly(3-hexylthiophene) towards 16.93% CsPbI ₂ Br Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16388-16393.	13.8	57
8	Engineering inorganic lead halide perovskite deposition toward solar cells with efficiency approaching 20%. <i>Aggregate</i> , 2021, 2, 66-83.	9.9	24
9	Regulating the crystalline phase of intermediate films enables FA _{1-x} MA _x PbI ₃ perovskite solar cells with efficiency over 22%. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24064-24070.	10.3	20
10	Revealing the perovskite formation kinetics during chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21973-21982.	10.3	24
11	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. <i>Nature Energy</i> , 2020, 5, 596-604.	39.5	274
12	Near-Infrared-Transparent Perovskite Solar Cells and Perovskite-Based Tandem Photovoltaics. <i>Small Methods</i> , 2020, 4, 2000395.	8.6	63
13	High-Mobility In ₂ O ₃ :H Electrodes for Four-Terminal Perovskite/CuInSe ₂ Tandem Solar Cells. <i>ACS Nano</i> , 2020, 14, 7502-7512.	14.6	54
14	Mitigation of Vacuum and Illumination-Induced Degradation in Perovskite Solar Cells by Structure Engineering. <i>Joule</i> , 2020, 4, 1087-1103.	24.0	69
15	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. <i>Advanced Materials</i> , 2019, 31, e1804284.	21.0	161
16	Reduction of lead leakage from damaged lead halide perovskite solar modules using self-healing polymer-based encapsulation. <i>Nature Energy</i> , 2019, 4, 585-593.	39.5	327
17	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm ² approaching 10% efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6920-6929.	10.3	112
18	Negligible Pb Waste and Upscalable Perovskite Deposition Technology for High-Operational Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019, 9, 1803047.	19.5	68

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19	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO ₂ Electron Transport Layer. <i>Advanced Functional Materials</i> , 2019, 29, 1806779.	14.9	118
20	Photodecomposition and thermal decomposition in methylammonium halide lead perovskites and inferred design principles to increase photovoltaic device stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9604-9612.	10.3	437
21	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution for High-Stability All-Inorganic Perovskite Solar Cells with Carbon Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800504.	19.5	272
22	Highly Boosted Microbial Extracellular Electron Transfer by Semiconductor Nanowire Array with Suitable Energy Level. <i>Advanced Functional Materials</i> , 2018, 28, 1707408.	14.9	17
23	Large-Area Perovskite Solar Modules: Combination of Hybrid CVD and Cation Exchange for Upscaling Cs-Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability (<i>Adv. Funct. Mater.</i>)	14.9	158
24	Engineering Interface Structure to Improve Efficiency and Stability of Organometal Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry B</i> , 2018, 122, 511-520.	2.6	68
25	Combination of Hybrid CVD and Cation Exchange for Upscaling Cs-Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1703835.	14.9	158
26	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. <i>Nature Communications</i> , 2018, 9, 3880.	12.8	109
27	Benchmarking Chemical Stability of Arbitrarily Mixed 3D Hybrid Halide Perovskites for Solar Cell Applications. <i>Small Methods</i> , 2018, 2, 1800242.	8.6	26
28	The influence of secondary solvents on the morphology of a spiro-MeOTAD hole transport layer for lead halide perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 294001.	2.8	23
29	Improved Efficiency and Stability of Perovskite Solar Cells Induced by C ₁₈ H ₃₇ O ₄ Functionalized Hydrophobic Ammonium-Based Additives. <i>Advanced Materials</i> , 2018, 30, 1703670.	21.0	132
30	Accelerated degradation of methylammonium lead iodide perovskites induced by exposure to iodine vapour. <i>Nature Energy</i> , 2017, 2, .	39.5	491
31	Application of Methylamine Gas in Fabricating Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 1750-1761.	3.8	46
32	Methylammonium Lead Bromide Perovskite Light-Emitting Diodes by Chemical Vapor Deposition. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3193-3198.	4.6	113
33	Chemical vapor deposition grown formamidinium perovskite solar modules with high steady state power and thermal stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13125-13132.	10.3	169
34	Post-annealing of MAPbI ₃ perovskite films with methylamine for efficient perovskite solar cells. <i>Materials Horizons</i> , 2016, 3, 548-555.	12.2	141
35	Hierarchical Nanowire Arrays as Three-Dimensional Fractal Nanobiointerfaces for High Efficient Capture of Cancer Cells. <i>Nano Letters</i> , 2016, 16, 766-772.	9.1	122
36	Boosting the Open Circuit Voltage and Fill Factor of QDSSCs Using Hierarchically Assembled ITO@Cu ₂ S Nanowire Array Counter Electrodes. <i>Nano Letters</i> , 2015, 15, 3088-3095.	9.1	86

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37	Physical vapor deposition of amorphous MoS ₂ nanosheet arrays on carbon cloth for highly reproducible large-area electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 19277-19281.	10.3	97
38	Carbon-free Cu ₂ ZnSn(S,Se) ₄ film prepared via a non-hydrazine route. Science China Chemistry, 2014, 57, 1552-1558.	8.2	3
39	ITO@Cu ₂ S Tunnel Junction Nanowire Arrays as Efficient Counter Electrode for Quantum-Dot-Sensitized Solar Cells. Nano Letters, 2014, 14, 365-372.	9.1	118
40	In situ nitrogen-doped nanoporous carbon nanocables as an efficient metal-free catalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 10154.	10.3	73
41	Engineering the Interfaces of ITO@Cu ₂ S Nanowire Arrays toward Efficient and Stable Counter Electrodes for Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15448-15455.	8.0	24
42	Up-Scaling of Organic-Inorganic Hybrid Perovskite Solar Cells and Modules. , 0, , .		0