

# Ziqi Xu

## List of Publications by Citations

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66

papers

16,722

citations

36

h-index

70

g-index

70

ext. papers

18,780

ext. citations

15.9

avg, IF

6.64

L-index

#	Paper	IF	Citations
66	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , <b>2014</b> , 345, 542-6	33.3	5272
65	Planar heterojunction perovskite solar cells via vapor-assisted solution process. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 622-5	16.4	1921
64	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 75-81	28.7	1614
63	Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. <i>Nano Letters</i> , <b>2014</b> , 14, 4158-63	11.5	1143
62	Under the spotlight: The organic-inorganic hybrid halide perovskite for optoelectronic applications. <i>Nano Today</i> , <b>2015</b> , 10, 355-396	17.9	700
61	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 183902	3.4	598
60	A Eu-Eu ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. <i>Science</i> , <b>2019</b> , 363, 265-270	33.3	533
59	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , <b>2019</b> , 4, 408-415	62.3	511
58	Guanidinium: A Route to Enhanced Carrier Lifetime and Open-Circuit Voltage in Hybrid Perovskite Solar Cells. <i>Nano Letters</i> , <b>2016</b> , 16, 1009-16	11.5	400
57	The optoelectronic role of chlorine in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> (Cl)-based perovskite solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7269	17.4	354
56	Perovskite solar cells: film formation and properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9032-9050	3	327
55	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. <i>Nature Communications</i> , <b>2019</b> , 10, 815	17.4	286
54	The identification and characterization of defect states in hybrid organic-inorganic perovskite photovoltaics. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 112-6	3.6	285
53	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606774	24	267
52	Impact of H <sub>2</sub> O on organic-inorganic hybrid perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2284-2311	35.4	248
51	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. <i>Advanced Materials</i> , <b>2016</b> , 28, 9862-9868	24	235
50	Towards commercialization: the operational stability of perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 8235-8286	58.5	143

49	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , <b>2018</b> , 9, 2793	17.4	127
48	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 1112	17.4	124
47	The Progress of Interface Design in Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600460	21.8	121
46	The intrinsic properties of FA(1-x)MAxPbI3 perovskite single crystals. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8537-8544	13	110
45	Enhanced physical properties of pulsed laser deposited NiO films via annealing and lithium doping for improving perovskite solar cell efficiency. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7084-7094	7.1	92
44	Low-Temperature TiOx Compact Layer for Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11076-83	9.5	91
43	CsI Pre-Intercalation in the Inorganic Framework for Efficient and Stable FA Cs Pbi (Cl) Perovskite Solar Cells. <i>Small</i> , <b>2017</b> , 13, 1700484	11	88
42	Congeneric Incorporation of CsPbBr3 Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 30-38	20.1	86
41	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , <b>2020</b> , 4, 1961-1976	27.8	82
40	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900390	24	62
39	1000 h Operational Lifetime Perovskite Solar Cells by Ambient Melting Encapsulation. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902472	21.8	60
38	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. <i>Nano Energy</i> , <b>2018</b> , 53, 798-807	17.1	56
37	Tailored Au@TiO2 nanostructures for the plasmonic effect in planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12034-12042	13	51
36	High-Performance Fused Ring Electron Acceptor-Perovskite Hybrid. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14938-14944	16.4	51
35	Low-temperature-processed inorganic perovskite solar cells via solvent engineering with enhanced mass transport. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23602-23609	13	49
34	To probe the performance of perovskite memory devices: defects property and hysteresis. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5810-5817	7.1	46
33	Precise Composition Tailoring of Mixed-Cation Hybrid Perovskites for Efficient Solar Cells by Mixture Design Methods. <i>ACS Nano</i> , <b>2017</b> , 11, 8804-8813	16.7	44
32	Defects chemistry in high-efficiency and stable perovskite solar cells. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 060903	2.5	43

31	The Exploration of Carrier Behavior in the Inverted Mixed Perovskite Single-Crystal Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800224	4.6	38
30	A low temperature processed fused-ring electron transport material for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24820-24825	13	36
29	Recent Advances in Improving Phase Stability of Perovskite Solar Cells. <i>Small Methods</i> , <b>2020</b> , 4, 1900877	12.8	35
28	Extremely low trap-state energy level perovskite solar cells passivated using NH <sub>2</sub> -POSS with improved efficiency and stability. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6806-6814	13	34
27	High-Mobility p-Type Organic Semiconducting Interlayer Enhancing Efficiency and Stability of Perovskite Solar Cells. <i>Advanced Science</i> , <b>2017</b> , 4, 1700025	13.6	29
26	Understanding the Defect Properties of Quasi-2D Halide Perovskites for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3521-3528	6.4	29
25	Synergistic Effects of Eu-MOF on Perovskite Solar Cells with Improved Stability. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102947	24	29
24	Temporal and spatial pinhole constraints in small-molecule hole transport layers for stable and efficient perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7338-7346	13	28
23	Promoting Energy Transfer via Manipulation of Crystallization Kinetics of Quasi-2D Perovskites for Efficient Green Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102246	24	25
22	Reduction of intrinsic defects in hybrid perovskite films via precursor purification. <i>Chemical Communications</i> , <b>2017</b> , 53, 10548-10551	5.8	24
21	Stacking Effects on Electron-Phonon Coupling in Layered Hybrid Perovskites Microstrain Manipulation. <i>ACS Nano</i> , <b>2020</b> , 14, 5806-5817	16.7	24
20	Energy-Level Modulation in Diboron-Modified SnO <sub>2</sub> for High-Efficiency Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900217	7.1	21
19	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12931-12937	16.4	19
18	An amino-substituted perylene diimide polymer for conventional perovskite solar cells. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2078-2084	7.8	15
17	Carrier transport composites with suppressed glass-transition for stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14106-14113	13	13
16	Electronic Tunability and Mobility Anisotropy of Quasi-2D Perovskite Single Crystals with Varied Spacer Cations. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7610-7616	6.4	13
15	Defect suppression and passivation for perovskite solar cells: from the birth to the lifetime operation. <i>EnergyChem</i> , <b>2020</b> , 2, 100032	36.9	12
14	An overview of rare earth coupled lead halide perovskite and its application in photovoltaics and light emitting devices. <i>Progress in Materials Science</i> , <b>2021</b> , 120, 100737	42.2	10

13	A-Site Cation Effect on Growth Thermodynamics and Photoconductive Properties in Ultrapure Lead Iodine Perovskite Monocrystalline Wires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25985-25994	9.5	9
12	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	9
11	Ion migration in halide perovskite solar cells: mechanism, characterization, impact and suppression. <i>Journal of Energy Chemistry</i> , <b>2021</b> ,	12	8
10	Microstructure variations induced by excess PbX or AX within perovskite thin films. <i>Chemical Communications</i> , <b>2017</b> , 53, 12966-12969	5.8	7
9	Thermal Management Enables More Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3029-3036	20.1	5
8	Avoiding Structural Collapse to Reduce Lead Leakage in Perovskite Photovoltaics.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	5
7	Progress in flexible perovskite solar cells with improved efficiency. <i>Journal of Semiconductors</i> , <b>2021</b> , 42, 101605	2.3	4
6	A general approach for nanoparticle composite transport materials toward efficient perovskite solar cells. <i>Chemical Communications</i> , <b>2017</b> , 53, 11028-11031	5.8	2
5	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13031-13037	3.6	1
4	Effects of Synthesis Parameters on Silicon Nanopowders Produced by CO <sub>2</sub> Laser-Driven Pyrolysis of Silane. <i>Chemical Vapor Deposition</i> , <b>2015</b> , 21, 133-139		1
3	Collective and individual impacts of the cascade doping of alkali cations in perovskite single crystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15351-15360	7.1	1
2	Repair Strategies for Perovskite Solar Cells. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 1055	2.2	1
1	Phase transformation barrier modulation of CsPbI <sub>3</sub> films via PbI <sub>2</sub> complex for efficient all-inorganic perovskite photovoltaics. <i>Nano Energy</i> , <b>2022</b> , 99, 107388	17.1	0