

Xiaoyu Yang

List of Publications by Year in descending order

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31
papers

3,355
citations

279701

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434063

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32
docs citations

32
times ranked

4096
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemistry Advances High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2107420.	11.1	51
2	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances. <i>Journal of the American Chemical Society</i> , 2022, 144, 1700-1708.	6.6	88
3	Disorder control enhances ultrathin solar cells. <i>Nature Photonics</i> , 2022, 16, 176-177.	15.6	2
4	Ultralight flexible perovskite solar cells. <i>Science China Materials</i> , 2022, 65, 2319-2324.	3.5	21
5	Perovskite hetero-bilayer for efficient charge-transport-layer-free solar cells. <i>Joule</i> , 2022, 6, 1277-1289.	11.7	25
6	Surface-anchoring zwitterionic antioxidant enables efficient, stable, and scalable all-perovskite tandem solar cells. <i>Science China Chemistry</i> , 2021, 64, 3-4.	4.2	2
7	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2006435.	11.1	214
8	Dielectric screening in perovskite photovoltaics. <i>Nature Communications</i> , 2021, 12, 2479.	5.8	88
9	Perovskite Solar Cells for Space Applications: Progress and Challenges. <i>Advanced Materials</i> , 2021, 33, e2006545.	11.1	184
10	Multiple-Defect Management for Efficient Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2021, 6, 2404-2412.	8.8	74
11	Optimizing Vertical Crystallization for Efficient Perovskite Solar Cells by Buried Composite Layers. <i>Solar Rrl</i> , 2021, 5, 2100457.	3.1	14
12	Depth-dependent defect manipulation in perovskites for high-performance solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6526-6535.	15.6	114
13	Cyanogel-Derived Synthesis of Porous PdFe Nanohydrangeas as Electrocatalysts for Oxygen Reduction Reaction. <i>Nanomaterials</i> , 2021, 11, 3382.	1.9	9
14	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. <i>Nano Energy</i> , 2020, 67, 104189.	8.2	81
15	Reduced bilateral recombination by functional molecular interface engineering for efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2020, 78, 105249.	8.2	45
16	Superior Carrier Lifetimes Exceeding 6 μ s in Polycrystalline Halide Perovskites. <i>Advanced Materials</i> , 2020, 32, e2002585.	11.1	151
17	Green Solution-Bathing Process for Efficient Large-Area Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24905-24912.	4.0	20
18	High-Performance CsPbBr ₃ All-inorganic Perovskite Solar Cells with Efficiency over 18% via Spontaneous Interfacial Manipulation. <i>Advanced Functional Materials</i> , 2020, 30, 2000457.	7.8	118

#	ARTICLE	IF	CITATIONS
19	Low-Dimensional Contact Layers for Enhanced Perovskite Photodiodes. <i>Advanced Functional Materials</i> , 2020, 30, 2001692.	7.8	30
20	Mixed-cation perovskite solar cells in space. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	116
21	Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 86-93.	10.8	63
22	High-Performance Oxygen Reduction Electrocatalysis Enabled by 3D PdNi Nanocorals with Hierarchical Porosity. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700366.	1.2	21
23	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. <i>Nano Energy</i> , 2018, 49, 411-418.	8.2	184
24	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805085.	11.1	128
25	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018, 360, 1442-1446.	6.0	1,221
26	Patterned Perovskites for Optoelectronic Applications. <i>Small Methods</i> , 2018, 2, 1800110.	4.6	67
27	Ultracompact all-optical logic gates based on nonlinear plasmonic nanocavities. <i>Nanophotonics</i> , 2017, 6, 365-376.	2.9	72
28	Facile synthesis of ultrathin Pd-Pt alloy nanowires as highly active and durable catalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6805-6813.	3.8	27
29	Nanoscale on-chip all-optical logic parity checker in integrated plasmonic circuits in optical communication range. <i>Scientific Reports</i> , 2016, 6, 24433.	1.6	30
30	On-Chip Optical Switch Based on Plasmon-Photon Hybrid Nanostructure-Coated Multicomponent Nanocomposite. <i>Advanced Optical Materials</i> , 2016, 4, 1159-1166.	3.6	28
31	Tunable ultracompact chip-integrated multichannel filter based on plasmon-induced transparencies. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	67