

Yuhang Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

2,276
citations

20
h-index

36
g-index

36
ext. papers

3,363
ext. citations

16.9
avg, IF

5.23
L-index

#	Paper	IF	Citations
35	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22. <i>Science Advances</i> , 2019 , 5, eaaw2543	14.3	362
34	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
33	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. <i>Joule</i> , 2018 , 2, 1108-1117	27.8	189
32	Conformal quantum dot-SnO layers as electron transporters for efficient perovskite solar cells.. <i>Science</i> , 2022 , 375, 302-306	33.3	181
31	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
30	Improving the stability and performance of perovskite solar cells via off-the-shelf post-device ligand treatment. <i>Energy and Environmental Science</i> , 2018 , 11, 2253-2262	35.4	137
29	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15688-15694	16.4	115
28	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 1779-1787	35.4	112
27	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3231-3237	16.4	73
26	CuO photocathodes with band-tail states assisted hole transport for standalone solar water splitting. <i>Nature Communications</i> , 2020 , 11, 318	17.4	70
25	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. <i>ACS Energy Letters</i> , 2020 , 5, 2223-2230	20.1	60
24	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020 , 4, 222-234	27.8	55
23	Hydrothermally processed CuCrO ₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20327-20337	13.3	55
22	Low-Cost and Highly Efficient Carbon-Based Perovskite Solar Cells Exhibiting Excellent Long-Term Operational and UV Stability. <i>Small</i> , 2019 , 15, e1904746	11	53
21	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021 , 5, 1587-1601	27.8	45
20	Electron-Affinity-Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14125-14128	16.4	42
19	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40

18	Modulation of perovskite crystallization processes towards highly efficient and stable perovskite solar cells with MXene quantum dot-modified SnO ₂ . <i>Energy and Environmental Science</i> , 2021 , 14, 3447-3454	35.4	38
17	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. <i>ACS Energy Letters</i> , 2021 , 6, 208-215	20.1	30
16	Nanoscale Phase Segregation in Supramolecular Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1529-1538	16.4	26
15	Minimizing the Trade-Off between Photocurrent and Photovoltage in Triple-Cation Mixed-Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10188-10195	6.4	20
14	Chemically tailored molecular surface modifiers for efficient and stable perovskite photovoltaics. <i>SmartMat</i> , 2021 , 2, 33-37	22.8	18
13	SnS Quantum Dots as Hole Transporter of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3822-3829	6.1	17
12	Electron-Affinity-Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 14321-14324	3.6	17
11	Molecular Engineering of Simple Metal-Free Organic Dyes Derived from Triphenylamine for Dye-Sensitized Solar Cell Applications. <i>ChemSusChem</i> , 2020 , 13, 212-220	8.3	16
10	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7456-7463	6.1	14
9	Organic Ammonium Halide Modulators as Effective Strategy for Enhanced Perovskite Photovoltaic Performance. <i>Advanced Science</i> , 2021 , 8, 2004593	13.6	12
8	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie</i> , 2020 , 132, 15818-15824	3.6	11
7	Combined Precursor Engineering and Grain Anchoring Leading to MA-Free, Phase-Pure, and Stable Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27299	16.4	10
6	The Rise of Dye-Sensitized Solar Cells: From Molecular Photovoltaics to Emerging Solid-State Photovoltaic Technologies. <i>Helvetica Chimica Acta</i> , 2021 , 104, e2000230	2	8
5	Interface modification to achieve high-efficiency and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 433, 134613	14.7	4
4	Cyclopentadiene-Based Hole-Transport Material for Cost-Reduced Stabilized Perovskite Solar Cells with Power Conversion Efficiencies Over 23%. <i>Advanced Energy Materials</i> , 2021 , 11, 2003953	21.8	4
3	Efficient and Stable Large Bandgap MAPbBr ₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022 , 7, 1112-1119	20.1	4
2	Combined Precursor Engineering and Grain Anchoring Leading to MA-Free, Phase-Pure, and Stable Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. <i>Angewandte Chemie</i> ,	3.6	3
1	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie</i> , 2020 , 132, 4721-4727	3.6	

