

Yuhang Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/717828/yuhang-liu-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Conformal quantum dot-SnO layers as electron transporters for efficient perovskite solar cells.. <i>Science</i> , 2022 , 375, 302-306	33.3	181
34	Interface modification to achieve high-efficiency and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 433, 134613	14.7	4
33	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
32	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
31	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
30	Organic Ammonium Halide Modulators as Effective Strategy for Enhanced Perovskite Photovoltaic Performance. <i>Advanced Science</i> , 2021 , 8, 2004593	13.6	12
29	Chemically tailored molecular surface modifiers for efficient and stable perovskite photovoltaics. <i>SmartMat</i> , 2021 , 2, 33-37	22.8	18
28	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
27	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021 , 5, 1587-1601	27.8	45
26	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
25	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	25.4	38
24	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
23	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
22	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
21	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
20	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
19	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

18	CuO photocathodes with band-tail states assisted hole transport for standalone solar water splitting. <i>Nature Communications</i> , 2020 , 11, 318	17.4	70
17	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
16	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
15	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020 , 4, 222-234	27.8	55
14	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40
13	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie</i> , 2020 , 132, 4721-4727	3.6	
12	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
11	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
10	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
9	SnS Quantum Dots as Hole Transporter of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3822-3829	6.1	17
8	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
7	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
6	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. <i>Joule</i> , 2018 , 2, 1108-1117	27.8	189
5	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
4	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
3	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	13.7	55
2	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
1	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

