

Xiangchuan Meng

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6960339/xiangchuan-meng-publications-by-citations.pdf>

Version: 2024-04-27

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.

39
papers

1,174
citations

16
h-index

34
g-index

43
ext. papers

1,610
ext. citations

14.7
avg, IF

4.55
L-index

#	Paper	IF	Citations
39	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylene-diimide. <i>Advanced Energy Materials</i> , 2019 , 9, 1900198	21.8	133
38	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 2205-2218	27.8	111
37	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1808059	15.6	93
36	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1909-1916	9.5	91
35	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. <i>Nature Communications</i> , 2020 , 11, 3016	17.4	86
34	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903649	24	81
33	Nacre-inspired crystallization and elastic brick-and-mortar structure for a wearable perovskite solar module. <i>Energy and Environmental Science</i> , 2019 , 12, 979-987	35.4	77
32	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. <i>Advanced Functional Materials</i> , 2019 , 29, 1902629	15.6	64
31	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16602-16608	16.4	57
30	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26468-26475	9.5	55
29	Fluorobenzotriazole (FTAZ)-Based Polymer Donor Enables Organic Solar Cells Exceeding 12% Efficiency. <i>Advanced Functional Materials</i> , 2019 , 29, 1808828	15.6	53
28	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 382-389	7.1	27
27	An in situ bifacial passivation strategy for flexible perovskite solar module with mechanical robustness by roll-to-roll fabrication. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5759-5768	13	21
26	Mechanically Robust and Flexible Perovskite Solar Cells via a Printable and Gelatinous Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19959-19969	9.5	20
25	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14693-14700	16.4	20
24	Roll-to-Roll Fabrication of Flexible Orientated Graphene Transparent Electrodes by Shear Force and One-Step Reducing Post-Treatment. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700138	6.8	18
23	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. <i>Advanced Functional Materials</i> , 2021 , 31, 2106460	15.6	16

22	Printable and Homogeneous NiOx Hole Transport Layers Prepared by a Polymer-Network Gel Method for Large-Area and Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2106495	15.6	16
21	Stabilized and Operational PbI2 Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8129-8139	3.8	14
20	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000417	15.6	14
19	A Highly Tolerant Printing for Scalable and Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2107726	15.6	13
18	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. <i>Langmuir</i> , 2019 , 35, 9713-9720	4	12
17	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. <i>Small Methods</i> , 2020 , 4, 2000588	12.8	10
16	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. <i>Science China Chemistry</i> , 2021 , 64, 834-843	7.9	9
15	Perovskite Solar Cells: High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide (Adv. Energy Mater. 18/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970064	21.8	7
14	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasi-2D Perovskites. <i>Advanced Materials</i> , 2021 , 33, e2101823	24	7
13	A Bionic Interface to Suppressing the Coffee-ring Effect for Reliable and Flexible Perovskite Modules with a near 90% Yield Rate.. <i>Advanced Materials</i> , 2022 , e2201840	24	7
12	A Regularity-Based Fullerene Interfacial Layer for Efficient and Stable Perovskite Solar Cells via Blade-Coating. <i>Advanced Functional Materials</i> , 2105917	15.6	5
11	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. <i>Chemical Communications</i> , 2021 , 57, 6320-6323	5.8	5
10	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16178-16186	13	5
9	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. <i>Advanced Materials</i> , 2022 , e2201604	24	4
8	Hole Transportation: Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability (Adv. Funct. Mater. 18/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970117	15.6	3
7	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). <i>Advanced Materials</i> , 2019 , 31, 1970294	24	3
6	Releasing Nanocapsules for High-Throughput Printing of Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2101291	21.8	3
5	Scalable Flexible Perovskite Solar Cells Based on a Crystalline and Printable Template with Intelligent Temperature Sensitivity. <i>Solar Rrl</i> , 2100991	7.1	1

4	Innenrücktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). <i>Angewandte Chemie</i> , 2020 , 132, 16947	3.6	1
3	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. <i>Angewandte Chemie</i> , 2021 , 133, 14814-14821	3.6	1
2	Recent Advances of PEDOT in Flexible Energy Conversion and Storage Devices. <i>Acta Chimica Sinica</i> , 2021 , 79, 853	3.3	0
1	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie</i> , 2020 , 132, 16745.6	3.6	1