

# Xiangchuan Meng

## List of Publications by Year in Descending Order

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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.

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	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. <i>Advanced Materials</i> , <b>2022</b> , e2201604	24	4
38	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> , <b>2022</b> , e2201840	24	7
37	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 834-843	7.9	9
36	Mechanically Robust and Flexible Perovskite Solar Cells via a Printable and Gelatinous Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19959-19969	9.5	20
35	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14693-14700	16.4	20
34	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14814-14821	3.6	1
33	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasi-2D Perovskites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101823	24	7
32	Releasing Nanocapsules for High-Throughput Printing of Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101291	21.8	3
31	Recent Advances of PEDOT in Flexible Energy Conversion and Storage Devices. <i>Acta Chimica Sinica</i> , <b>2021</b> , 79, 853	3.3	0
30	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> , <b>2021</b> , 9, 5759-5768	13	21
29	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. <i>Chemical Communications</i> , <b>2021</b> , 57, 6320-6323	5.8	5
28	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> , <b>2021</b> , 31, 2106495	15.6	16
27	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16178-16186	13	5
26	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16602-16608	16.4	57
25	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16745.6		
24	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 3016	17.4	86
23	Stabilized and Operational PbI2 Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8129-8139	3.8	14

22	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000417	15.6	14
21	Innenrücktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16947	3.6	1
20	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. <i>Small Methods</i> , <b>2020</b> , 4, 2000588	12.8	10
19	Nacre-inspired crystallization and elastic brick-and-mortar structure for a wearable perovskite solar module. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 979-987	35.4	77
18	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> , <b>2019</b> , 9, 1970064	21.8	7
17	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> , <b>2019</b> , 29, 1970117	15.6	3
16	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900198	21.8	133
15	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808059	15.6	93
14	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903649	24	81
13	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. <i>Langmuir</i> , <b>2019</b> , 35, 9713-9720	4	12
12	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902629	15.6	64
11	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 2205-2218	27.8	111
10	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970294	24	3
9	Fluorobenzotriazole (FTAZ)-Based Polymer Donor Enables Organic Solar Cells Exceeding 12% Efficiency. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808828	15.6	53
8	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1909-1916	9.5	91
7	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 382-389	7.1	27
6	Roll-to-Roll Fabrication of Flexible Orientated Graphene Transparent Electrodes by Shear Force and One-Step Reducing Post-Treatment. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700138	6.8	18
5	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26468-26475	9.5	55

4	Scalable Flexible Perovskite Solar Cells Based on a Crystalline and Printable Template with Intelligent Temperature Sensitivity. <i>Solar Rrl</i> ,2100991	7.1	1
3	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. <i>Advanced Functional Materials</i> ,2106460	15.6	16
2	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
1	A Highly Tolerant Printing for Scalable and Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2107726	15.6	13