

Anyi Mei

List of Publications by Year in descending order

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76294

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docs citations

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8573
citing authors

#	ARTICLE	IF	CITATIONS
1	A hole-conductor-free, fully printable mesoscopic perovskite solar cell with high stability. Science, 2014, 345, 295-298.	6.0	2,685
2	Challenges for commercializing perovskite solar cells. Science, 2018, 361, .	6.0	1,327
3	Fully Printable Mesoscopic Perovskite Solar Cells with Organic Silane Self-Assembled Monolayer. Journal of the American Chemical Society, 2015, 137, 1790-1793.	6.6	414
4	Beyond Efficiency: the Challenge of Stability in Mesoscopic Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1501066.	10.2	395
5	Stable Large-Area (10 cm^2) Printable Mesoscopic Perovskite Module Exceeding 10% Efficiency. Solar Rrl, 2017, 1, 1600019.	3.1	272
6	Synergy of ammonium chloride and moisture on perovskite crystallization for efficient printable mesoscopic solar cells. Nature Communications, 2017, 8, 14555.	5.8	270
7	A Review on Additives for Halide Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902492.	10.2	240
8	Hole-Conductor-Free Mesoscopic $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ Heterojunction Solar Cells Based on Anatase Nanosheets and Carbon Counter Electrodes. Journal of Physical Chemistry Letters, 2014, 5, 2160-2164.	2.1	224
9	Stabilizing Perovskite Solar Cells to IEC61215:2016 Standards with over 9,000-h Operational Tracking. Joule, 2020, 4, 2646-2660.	11.7	218
10	Improved Performance of Printable Perovskite Solar Cells with Bifunctional Conjugated Organic Molecule. Advanced Materials, 2018, 30, 1705786.	11.1	209
11	The effect of carbon counter electrodes on fully printable mesoscopic perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 9165-9170.	5.2	207
12	Tunable hysteresis effect for perovskite solar cells. Energy and Environmental Science, 2017, 10, 2383-2391.	15.6	188
13	Hole-Conductor-Free Fully Printable Mesoscopic Solar Cell with Mixed-Anion Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3(3\text{H}_2\text{O})\cdot\text{BF}_4$. Advanced Energy Materials, 2016, 6, 1502009.	5.2	186
14	The size effect of TiO_2 nanoparticles on a printable mesoscopic perovskite solar cell. Journal of Materials Chemistry A, 2015, 3, 9103-9107.	5.2	153
15	Effect of guanidinium on mesoscopic perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 73-78.	5.2	146
16	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. Advanced Materials, 2019, 31, e1807435.	11.1	143
17	A Review on Scaling Up Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2008621.	7.8	143
18	Solvent effect on the hole-conductor-free fully printable perovskite solar cells. Nano Energy, 2016, 27, 130-137.	8.2	141

#	ARTICLE	IF	CITATIONS
19	Encapsulation of Printable Mesoscopic Perovskite Solar Cells Enables High Temperature and Long-Term Outdoor Stability. <i>Advanced Functional Materials</i> , 2019, 29, 1809129.	7.8	133
20	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. <i>ACS Energy Letters</i> , 2019, 4, 1521-1527.	8.8	130
21	Toward Industrial-Scale Production of Perovskite Solar Cells: Screen Printing, Slot-Die Coating, and Emerging Techniques. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2707-2713.	2.1	124
22	Critical parameters in TiO ₂ /ZrO ₂ /Carbon-based mesoscopic perovskite solar cell. <i>Journal of Power Sources</i> , 2015, 293, 533-538.	4.0	114
23	Improvement and Regeneration of Perovskite Solar Cells via Methylamine Gas Post-Treatment. <i>Advanced Functional Materials</i> , 2017, 27, 1703060.	7.8	89
24	Highly ordered mesoporous carbon for mesoscopic CH ₃ NH ₃ PbI ₃ /TiO ₂ heterojunction solar cell. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8607.	5.2	88
25	Tailoring the Dimensionality of Hybrid Perovskites in Mesoporous Carbon Electrodes for Type-II Band Alignment and Enhanced Performance of Printable Hole-Conductor-Free Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2100292.	10.2	85
26	Boron-Doped Graphite for High Work Function Carbon Electrode in Printable Hole-Conductor-Free Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31721-31727.	4.0	83
27	Oxygen management in carbon electrode for high-performance printable perovskite solar cells. <i>Nano Energy</i> , 2018, 53, 160-167.	8.2	83
28	Enhanced electronic properties in CH ₃ NH ₃ PbI ₃ via LiCl mixing for hole-conductor-free printable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16731-16736.	5.2	81
29	Efficient hole-conductor-free, fully printable mesoscopic perovskite solar cells with carbon electrode based on ultrathin graphite. <i>Carbon</i> , 2017, 120, 71-76.	5.4	77
30	Efficient Perovskite Photovoltaic-Thermoelectric Hybrid Device. <i>Advanced Energy Materials</i> , 2018, 8, 1702937.	10.2	71
31	Crystallization Control of Ternary-Cation Perovskite Absorber in Triple-Mesoscopic Layer for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903092.	10.2	63
32	Efficient triple-mesoscopic perovskite solar mini-modules fabricated with slot-die coating. <i>Nano Energy</i> , 2020, 74, 104842.	8.2	63
33	Amide Additives Induced a Fermi Level Shift To Improve the Performance of Hole-Conductor-Free, Printable Mesoscopic Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6865-6872.	2.1	62
34	Standardizing Perovskite Solar Modules beyond Cells. <i>Joule</i> , 2019, 3, 2076-2085.	11.7	56
35	The Influence of the Work Function of Hybrid Carbon Electrodes on Printable Mesoscopic Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16481-16487.	1.5	52
36	Halide Perovskite Crystallization Processes and Methods in Nanocrystals, Single Crystals, and Thin Films. <i>Advanced Materials</i> , 2022, 34, e2200720.	11.1	50

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37	Bifunctional Al ₂ O ₃ Interlayer Leads to Enhanced Open-Circuit Voltage for Hole-Conductor-Free Carbon-Based Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800002.	3.1	48
38	Printable carbon-based hole-conductor-free mesoscopic perovskite solar cells: From lab to market. Materials Today Energy, 2018, 7, 221-231.	2.5	47
39	A favored crystal orientation for efficient printable mesoscopic perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 11148-11154.	5.2	42
40	Minimizing the Voltage Loss in Hole-Conductor-Free Printable Mesoscopic Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	41
41	Mixed (5-AVA) _x MA _{1-x} Pb ₃ (BF ₄) _y perovskites enhance the photovoltaic performance of hole-conductor-free printable mesoscopic solar cells. Journal of Materials Chemistry A, 2018, 6, 2360-2364.	5.2	40
42	A low-temperature carbon electrode with good perovskite compatibility and high flexibility in carbon based perovskite solar cells. Chemical Communications, 2019, 55, 2765-2768.	2.2	40
43	Highly oriented MAPbI ₃ crystals for efficient hole-conductor-free printable mesoscopic perovskite solar cells. Fundamental Research, 2022, 2, 276-283.	1.6	40
44	Improving the Performance of Perovskite Solar Cells via a Novel Additive of N-Fluoroformamidinium Iodide with Electron-Withdrawing Fluorine Group. Advanced Functional Materials, 2021, 31, 2010603.	7.8	37
45	Development of formamidinium lead iodide-based perovskite solar cells: efficiency and stability. Chemical Science, 2022, 13, 2167-2183.	3.7	37
46	Vanadium Oxide Post-Treatment for Enhanced Photovoltage of Printable Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 2619-2625.	3.2	36
47	Enhanced perovskite electronic properties via A-site cation engineering. Fundamental Research, 2021, 1, 385-392.	1.6	34
48	Oxygen Vacancy Management for High-Temperature Mesoporous SnO ₂ Electron Transport Layers in Printable Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	32
49	Screen printing process control for coating high throughput titanium dioxide films toward printable mesoscopic perovskite solar cells. Frontiers of Optoelectronics, 2019, 12, 344-351.	1.9	26
50	van der Waals Mixed Valence Tin Oxides for Perovskite Solar Cells as UV-Stable Electron Transport Materials. Nano Letters, 2020, 20, 8178-8184.	4.5	26
51	Crystallization Control of Methylammonium-Free Perovskite in Two-Step Deposited Printable Triple-Mesoscopic Solar Cells. Solar Rrl, 2020, 4, 2000455.	3.1	24
52	In Situ Formation of FAPbI ₃ at the Perovskite/Carbon Interface for Enhanced Photovoltage of Printable Mesoscopic Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 728-735.	3.2	24
53	Mesoporous-Carbon-Based Fully-Printable All-Inorganic Monoclinic CsPbBr ₃ Perovskite Solar Cells with Ultrastability under High Temperature and High Humidity. Journal of Physical Chemistry Letters, 2020, 11, 9689-9695.	2.1	23
54	Post-Treatment of Mesoporous Scaffolds for Enhanced Photovoltage of Triple-Mesoscopic Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000185.	3.1	22

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55	Spacer improvement for efficient and fully printable mesoscopic perovskite solar cells. RSC Advances, 2017, 7, 10118-10123.	1.7	19
56	A C ₆₀ Modification Layer Using a Scalable Deposition Technology for Efficient Printable Mesoscopic Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800174.	3.1	19
57	<i>In situ</i> transfer of CH ₃ NH ₃ PbI ₃ single crystals in mesoporous scaffolds for efficient perovskite solar cells. Chemical Science, 2020, 11, 474-481.	3.7	19
58	Fully printable hole-conductor-free mesoscopic perovskite solar cells based on mesoporous anatase single crystals. New Journal of Chemistry, 2018, 42, 2669-2674.	1.4	17
59	Modulating Oxygen Vacancies in BaSnO ₃ for Printable Carbon-Based Mesoscopic Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 11032-11040.	2.5	17
60	Cellulose-Based Oxygen-Rich Activated Carbon for Printable Mesoscopic Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100333.	3.1	16
61	Yttrium-doped Sn ₃ O ₄ two-dimensional electron transport material for perovskite solar cells with efficiency over 23%. EcoMat, 2022, 4, .	6.8	16
62	Two-Stage Melt Processing of Phase-Pure Selenium for Printable Triple-Mesoscopic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 33879-33885.	4.0	14
63	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells. RSC Advances, 2019, 9, 29840-29846.	1.7	14
64	Halogen Bond Involved Post-Treatment for Improved Performance of Printable Hole-Conductor-Free Mesoscopic Perovskite Solar Cells. Solar Rrl, 2022, 6, 2100851.	3.1	14
65	Series Resistance Modulation for Large-Area Fully Printable Mesoscopic Perovskite Solar Cells. Solar Rrl, 2022, 6, 2100554.	3.1	13
66	A multifunctional piperidine-based modulator for printable mesoscopic perovskite solar cells. Chemical Engineering Journal, 2022, 446, 136967.	6.6	13
67	Modeling the edge effect for measuring the performance of mesoscopic solar cells with shading masks. Journal of Materials Chemistry A, 2019, 7, 10942-10948.	5.2	11
68	Influence of precursor concentration on printable mesoscopic perovskite solar cells. Frontiers of Optoelectronics, 2020, 13, 256-264.	1.9	11
69	Fullerene derivative as an additive for highly efficient printable mesoscopic perovskite solar cells. Organic Electronics, 2018, 62, 653-659.	1.4	10
70	Revealing the Role of Bifunctional Molecules in Crystallizing Methylammonium Lead Iodide through Geometric Isomers. Chemistry of Materials, 2021, 33, 4014-4022.	3.2	10
71	Interfacial Energy Band Alignment Enables the Reduction of Potential Loss for Hole-Conductor-Free Printable Mesoscopic Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2022, 13, 2144-2149.	2.1	10
72	Cl-Assisted Perovskite Crystallization Pathway in the Confined Space of Mesoporous Metal Oxides Unveiled by In Situ Grazing Incidence Wide-Angle X-ray Scattering. Chemistry of Materials, 2022, 34, 2231-2237.	3.2	9

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73	Investigating the iodide and bromide ion exchange in metal halide perovskite single crystals and thin films. Chemical Communications, 2021, 57, 6125-6128.	2.2	7
74	Improving Hole-Transport-Free Fully Printable Mesoscopic Perovskite Solar Cells TM Performance with Enhanced Open-Circuit Voltage via the Octyltrimethylammonium Chloride Additive. Solar Rrl, 2021, 5, 2000825.	3.1	6
75	Hole-conductor-free perovskite solar cells. MRS Bulletin, 2020, 45, 449-457.	1.7	5
76	Oxygen Vacancy Management for High-Temperature Mesoporous SnO ₂ Electron Transport Layers in Printable Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	3
77	Aiming at the industrialization of perovskite solar cells: Coping with stability challenge. Applied Physics Letters, 2021, 119, .	1.5	3
78	Modeling and Balancing the Solvent Evaporation of Thermal Annealing Process for Metal Halide Perovskites and Solar Cells. Small Methods, 2022, 6, e2200161.	4.6	2
79	Solar Cells: Crystallization Control of Ternary-Cation Perovskite Absorber in Triple-Mesoscopic Layer for Efficient Solar Cells (Adv. Energy Mater. 5/2020). Advanced Energy Materials, 2020, 10, 2070022.	10.2	1