Yaoguang Rong

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112 papers	9,289 citations	41 h-index	96 g-index
117 ext. papers	10,674 ext. citations	11.1 avg, IF	6.23 L-index

#	Paper	IF	Citations
112	A hole-conductor-free, fully printable mesoscopic perovskite solar cell with high stability. *Science*, **2014**, 345, 295-8	33.3	2374
111	Challenges for commercializing perovskite solar cells. *Science*, **2018**, 361,	33.3	853
110	Full printable processed mesoscopic CH□NH□PbI□/TiO□heterojunction solar cells with carbon counter electrode. *Scientific Reports*, **2013**, 3, 3132	4.9	574
109	High-strain sensors based on ZnO nanowire/polystyrene hybridized flexible films. *Advanced Materials*, **2011**, 23, 5440-4	24	438
108	Beyond Efficiency: the Challenge of Stability in Mesoscopic Perovskite Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1501066	21.8	335
107	Solvent engineering towards controlled grain growth in perovskite planar heterojunction solar cells. *Nanoscale*, **2015**, 7, 10595-9	7.7	251
106	Synergy of ammonium chloride and moisture on perovskite crystallization for efficient printable mesoscopic solar cells. *Nature Communications*, **2017**, 8, 14555	17.4	234
105	Stable Large-Area (10 □10 cm2) Printable Mesoscopic Perovskite Module Exceeding 10% Efficiency. *Solar Rrl*, **2017**, 1, 1600019	7.1	228
104	Hole-Conductor-Free Mesoscopic TiO2/CH3NH3PbI3 Heterojunction Solar Cells Based on Anatase Nanosheets and Carbon Counter Electrodes. *Journal of Physical Chemistry Letters*, **2014**, 5, 2160-4	6.4	211
103	Heavily n-Dopable □Conjugated Redox Polymers with Ultrafast Energy Storage Capability. *Journal of the American Chemical Society*, **2015**, 137, 4956-9	16.4	188
102	Improved Performance of Printable Perovskite Solar Cells with Bifunctional Conjugated Organic Molecule. *Advanced Materials*, **2018**, 30, 1705786	24	176
101	Tunable hysteresis effect for perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 2383-2391	33.4	135
100	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI3: From Dynamic Orientational Disorder to Hydrogen Bonding. *Chemistry of Materials*, **2016**, 28, 7385-7393	9.6	133
99	Hole-Conductor-Free Fully Printable Mesoscopic Solar Cell with Mixed-Anion Perovskite CH3NH3PbI(3□)(BF4)x. *Advanced Energy Materials*, **2016**, 6, 1502009	21.8	132
98	A Review on Additives for Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1902492	21.8	131
97	Effect of guanidinium on mesoscopic perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 73-78	13	119
96	Solvent effect on the hole-conductor-free fully printable perovskite solar cells. *Nano Energy*, **2016**, 27, 130-137	17.1	113

95	Multifunctional Polymer-Regulated SnO Nanocrystals Enhance Interface Contact for Efficient and Stable Planar Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e2003990	24	99
94	Stabilizing Perovskite Solar Cells to IEC61215:2016 Standards with over 9,000-h Operational Tracking. *Joule*, **2020**, 4, 2646-2660	27.8	97
93	Critical kinetic control of non-stoichiometric intermediate phase transformation for efficient perovskite solar cells. *Nanoscale*, **2016**, 8, 12892-9	7.7	83
92	Highly ordered mesoporous carbon for mesoscopic CH3NH3PbI3/TiO2 heterojunction solar cell. *Journal of Materials Chemistry A*, **2014**, 2, 8607	13	80
91	Toward Industrial-Scale Production of Perovskite Solar Cells: Screen Printing, Slot-Die Coating, and Emerging Techniques. *Journal of Physical Chemistry Letters*, **2018**, 9, 2707-2713	6.4	78
90	A mesoscopic platinized graphite/carbon black counter electrode for a highly efficient monolithic dye-sensitized solar cell. *Electrochimica Acta*, **2012**, 69, 334-339	6.7	77
89	Synergistic Effect of PbI2 Passivation and Chlorine Inclusion Yielding High Open-Circuit Voltage Exceeding 1.15 V in Both Mesoscopic and Inverted Planar CH3NH3PbI3(Cl)-Based Perovskite Solar Cells. *Advanced Functional Materials*, **2016**, 26, 8119-8127	15.6	77
88	Encapsulation of Printable Mesoscopic Perovskite Solar Cells Enables High Temperature and Long-Term Outdoor Stability. *Advanced Functional Materials*, **2019**, 29, 1809129	15.6	75
87	Lead-Free Dion□acobson Tin Halide Perovskites for Photovoltaics. *ACS Energy Letters*, **2019**, 4, 276-277	20.1	73
86	Enhanced electronic properties in CH3NH3PbI3via LiCl mixing for hole-conductor-free printable perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 16731-16736	13	72
85	Flexible electrode for long-life rechargeable sodium-ion batteries: effect of oxygen vacancy in MoO3□. *Journal of Materials Chemistry A*, **2016**, 4, 5402-5405	13	71
84	Improvement and Regeneration of Perovskite Solar Cells via Methylamine Gas Post-Treatment. *Advanced Functional Materials*, **2017**, 27, 1703060	15.6	68
83	Highly efficient poly(3-hexylthiophene) based monolithic dye-sensitized solar cells with carbon counter electrode. *Energy and Environmental Science*, **2011**, 4, 2025	35.4	64
82	Transparent NiS counter electrodes for thiolate/disulfide mediated dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 237-240	13	62
81	Efficient hole-conductor-free, fully printable mesoscopic perovskite solar cells with carbon electrode based on ultrathin graphite. *Carbon*, **2017**, 120, 71-76	10.4	60
80	Oxygen management in carbon electrode for high-performance printable perovskite solar cells. *Nano Energy*, **2018**, 53, 160-167	17.1	59
79	Improvement in Solid-State Dye Sensitized Solar Cells by p-Type Doping with Lewis Acid SnCl4. *Journal of Physical Chemistry C*, **2013**, 117, 22492-22496	3.8	57
78	Boron-Doped Graphite for High Work Function Carbon Electrode in Printable Hole-Conductor-Free Mesoscopic Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 31721-31727	9.5	55

77	Low-temperature solution-processed p-type vanadium oxide for perovskite solar cells. *Chemical Communications*, **2016**, 52, 8099-102	5.8	55
76	A Review on Scaling Up Perovskite Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2008621	15.6	54
75	Fully printable perovskite solar cells with highly-conductive, low-temperature, perovskite-compatible carbon electrode. *Carbon*, **2018**, 129, 830-836	10.4	53
74	Stable monolithic hole-conductor-free perovskite solar cells using TiO2 nanoparticle binding carbon films. *Organic Electronics*, **2017**, 45, 131-138	3.5	47
73	Crystallization Control of Ternary-Cation Perovskite Absorber in Triple-Mesoscopic Layer for Efficient Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1903092	21.8	47
72	Efficient Perovskite Photovoltaic-Thermoelectric Hybrid Device. *Advanced Energy Materials*, **2018**, 8, 1702937	21.8	45
71	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. *Advanced Energy Materials*, **2021**, 11, 2100292	21.8	40
70	An efficient thiolate/disulfide redox couple based dye-sensitized solar cell with a graphene modified mesoscopic carbon counter electrode. *Carbon*, **2013**, 53, 11-18	10.4	38
69	Amide Additives Induced a Fermi Level Shift To Improve the Performance of Hole-Conductor-Free, Printable Mesoscopic Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2019**, 10, 6865-6872	6.4	37
68	The Influence of the Work Function of Hybrid Carbon Electrodes on Printable Mesoscopic Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 16481-16487	3.8	36
67	Printable carbon-based hole-conductor-free mesoscopic perovskite solar cells: From lab to market. *Materials Today Energy*, **2018**, 7, 221-231	7	35
66	Efficient triple-mesoscopic perovskite solar mini-modules fabricated with slot-die coating. *Nano Energy*, **2020**, 74, 104842	17.1	34
65	Mixed (5-AVA)xMA1−xPbI3−y(BF4)y perovskites enhance the photovoltaic performance of hole-conductor-free printable mesoscopic solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 2360-2364	13	33
64	Design of an organic redox mediator and optimization of an organic counter electrode for efficient transparent bifacial dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 14383-90	3.6	30
63	Standardizing Perovskite Solar Modules beyond Cells. *Joule*, **2019**, 3, 2076-2085	27.8	29
62	High performance printable perovskite solar cells based on Cs0.1FA0.9PbI3 in mesoporous scaffolds. *Journal of Power Sources*, **2019**, 415, 105-111	8.9	29
61	Efficient Compact-Layer-Free, Hole-Conductor-Free, Fully Printable Mesoscopic Perovskite Solar Cell. *Journal of Physical Chemistry Letters*, **2016**, 7, 4142-4146	6.4	29
60	A low-temperature carbon electrode with good perovskite compatibility and high flexibility in carbon based perovskite solar cells. *Chemical Communications*, **2019**, 55, 2765-2768	5.8	28

59	Enhancement of monobasal solid-state dye-sensitized solar cells with polymer electrolyte assembling imidazolium iodide-functionalized silica nanoparticles. *Journal of Power Sources*, **2014**, 248, 283-288	8.9	28
58	A Multifunctional Bis-Adduct Fullerene for Efficient Printable Mesoscopic Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 10835-10841	9.5	25
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56	Efficient monolithic solid-state dye-sensitized solar cell with a low-cost mesoscopic carbon based screen printable counter electrode. *Organic Electronics*, **2013**, 14, 628-634	3.5	23
55	Mesoporous nitrogen-doped TiO2 sphere applied for quasi-solid-state dye-sensitized solar cell. *Nanoscale Research Letters*, **2011**, 6, 606	5	23
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52	Monolithic all-solid-state dye-sensitized solar module based on mesoscopic carbon counter electrodes. *Solar Energy Materials and Solar Cells*, **2012**, 105, 148-152	6.4	22
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50	Vanadium Oxide Post-Treatment for Enhanced Photovoltage of Printable Perovskite Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2619-2625	8.3	21
49	Efficient Dye-Sensitized Solar Cells with Potential-Tunable Organic Sulfide Mediators and Graphene-Modified Carbon Counter Electrodes. *Advanced Functional Materials*, **2013**, 23, 3344-3352	15.6	18
48	Efficient monolithic quasi-solid-state dye-sensitized solar cells based on poly(ionic liquids) and carbon counter electrodes. *RSC Advances*, **2014**, 4, 9271	3.7	17
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46	Spacer improvement for efficient and fully printable mesoscopic perovskite solar cells. *RSC Advances*, **2017**, 7, 10118-10123	3.7	16
45	Post-Treatment of Mesoporous Scaffolds for Enhanced Photovoltage of Triple-Mesoscopic Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000185	7.1	16
44	A class of carbon supported transition metal–nitrogen complex catalysts for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 1475-1480	13	16
43	Enhanced perovskite electronic properties via A-site cation engineering. *Fundamental Research*, **2021**, 1, 385-392		16
42	Ethanol stabilized precursors for highly reproducible printable mesoscopic perovskite solar cells. *Journal of Power Sources*, **2019**, 424, 261-267	8.9	15

41	Effect of photo-doping on performance for solid-state dye-sensitized solar cell based on 2,2?7,7?-tetrakis-(N,N-di-p-methoxyphenyl-amine)-9,9?-spirobifluorene and carbon counter electrode. *Electrochimica Acta*, **2013**, 99, 238-241	6.7	15
40	Designs and applications of multi-functional covalent organic frameworks in rechargeable batteries. *Energy Storage Materials*, **2021**, 41, 354-379	19.4	14
39	Screen printing process control for coating high throughput titanium dioxide films toward printable mesoscopic perovskite solar cells. *Frontiers of Optoelectronics*, **2019**, 12, 344-351	2.8	13
38	Minimizing the Voltage Loss in Hole-Conductor-Free Printable Mesoscopic Perovskite Solar Cells. *Advanced Energy Materials*,2102229	21.8	13
37	transfer of CHNHPbI single crystals in mesoporous scaffolds for efficient perovskite solar cells. *Chemical Science*, **2020**, 11, 474-481	9.4	13
36	Moisture-driven phase transition for improved perovskite solar cells with reduced trap-state density. *Nano Research*, **2017**, 10, 1413-1422	10	12
35	A C60 Modification Layer Using a Scalable Deposition Technology for Efficient Printable Mesoscopic Perovskite Solar Cells. *Solar Rrl*, **2018**, 2, 1800174	7.1	12
34	Highly oriented MAPbI3 crystals for efficient hole-conductor-free printable mesoscopic perovskite solar cells. *Fundamental Research*, **2021**,		12
33	Mesoporous-Carbon-Based Fully-Printable All-Inorganic Monoclinic CsPbBr Perovskite Solar Cells with Ultrastability under High Temperature and High Humidity. *Journal of Physical Chemistry Letters* , **2020**, 11, 9689-9695	6.4	12
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31	van der Waals Mixed Valence Tin Oxides for Perovskite Solar Cells as UV-Stable Electron Transport Materials. *Nano Letters*, **2020**, 20, 8178-8184	11.5	11
30	Crystallization Control of Methylammonium-Free Perovskite in Two-Step Deposited Printable Triple-Mesoscopic Solar Cells. *Solar Rrl*, **2020**, 4, 2000455	7.1	11
29	Effects of 5-Ammonium Valeric Acid Iodide as Additive on Methyl Ammonium Lead Iodide Perovskite Solar Cells. *Nanomaterials*, **2020**, 10,	5.4	10
28	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells.. *RSC Advances*, **2019**, 9, 29840-29846	3.7	10
27	Improvements in printable mesoscopic perovskite solar cells via thinner spacer layers. *Sustainable Energy and Fuels*, **2018**, 2, 2412-2418	5.8	10
26	Modeling the edge effect for measuring the performance of mesoscopic solar cells with shading masks. *Journal of Materials Chemistry A*, **2019**, 7, 10942-10948	13	9
25	Two-Stage Melt Processing of Phase-Pure Selenium for Printable Triple-Mesoscopic Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 33879-33885	9.5	9
24	Fully printable transparent monolithic solid-state dye-sensitized solar cell with mesoscopic indium tin oxide counter electrode. *Physical Chemistry Chemical Physics*, **2014**, 16, 17743-7	3.6	9

23	Progress in Multifunctional Molecules for Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900248	7.1	9
22	Monolithic all-solid-state dye-sensitized solar cells. *Frontiers of Optoelectronics*, **2013**, 6, 359-372	2.8	8
21	Improvement of thiolate/disulfide mediated dye-sensitized solar cells through supramolecular lithium cation assembling of crown ether. *Scientific Reports*, **2013**, 3, 2413	4.9	7
20	Fullerene derivative as an additive for highly efficient printable mesoscopic perovskite solar cells. *Organic Electronics*, **2018**, 62, 653-659	3.5	7
19	Beyond the Phase Segregation: Probing the Irreversible Phase Reconstruction of Mixed-Halide Perovskites.. *Advanced Science*, **2021**, e2103948	13.6	7
18	In Situ Formation of FAPbI3 at the Perovskite/Carbon Interface for Enhanced Photovoltage of Printable Mesoscopic Perovskite Solar Cells. *Chemistry of Materials*, **2022**, 34, 728-735	9.6	6
17	Influence of precursor concentration on printable mesoscopic perovskite solar cells. *Frontiers of Optoelectronics*, **2020**, 13, 256-264	2.8	5
16	Development of formamidinium lead iodide-based perovskite solar cells: efficiency and stability.. *Chemical Science*, **2022**, 13, 2167-2183	9.4	5
15	Series Resistance Modulation for Large-Area Fully Printable Mesoscopic Perovskite Solar Cells. *Solar Rrl*,2100554	7.1	5
14	Cellulose-Based Oxygen-Rich Activated Carbon for Printable Mesoscopic Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2100333	7.1	4
13	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	9.6	4
12	Hole-conductor-free perovskite solar cells. *MRS Bulletin*, **2020**, 45, 449-457	3.2	3
11	Halogen Bond Involved Post-Treatment for Improved Performance of Printable Hole-Conductor-Free Mesoscopic Perovskite Solar Cells. *Solar Rrl*,2100851	7.1	3
10	All-solid-state Mesoscopic Solar Cells: From Dye-sensitized to Perovskite. *Acta Chimica Sinica*, **2015**, 73, 237	3.3	3
9	Revealing the Role of Bifunctional Molecules in Crystallizing Methylammonium Lead Iodide through Geometric Isomers. *Chemistry of Materials*, **2021**, 33, 4014-4022	9.6	3
8	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**, 2144-2149	6.4	2
7	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	21.8	1
6	Investigating the iodide and bromide ion exchange in metal halide perovskite single crystals and thin films. *Chemical Communications*, **2021**, 57, 6125-6128	5.8	1

5	Improving Hole-Conductor-Free Fully Printable Mesoscopic Perovskite Solar Cells Performance with Enhanced Open-Circuit Voltage via the Octyltrimethylammonium Chloride Additive. *Solar Rrl*, **2021**, 5, 2000825	7.1	1
4	Modulating Oxygen Vacancies in BaSnO3 for Printable Carbon-Based Mesoscopic Perovskite Solar Cells. *ACS Applied Energy Materials*,	6.1	1
3	Aiming at the industrialization of perovskite solar cells: Coping with stability challenge. *Applied Physics Letters*, **2021**, 119, 250503	3.4	1
2	Modeling and Balancing the Solvent Evaporation of Thermal Annealing Process for Metal Halide Perovskites and Solar Cells.. *Small Methods*, **2022**, e2200161	12.8	0
1	Printable Mesoscopic Perovskite Solar Cells **2021**, 431-452		