

Yongsheng Liu

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.

74
papers

20,130
citations

44
h-index

77
g-index

77
ext. papers

21,878
ext. citations

14.3
avg, IF

6.74
L-index

#	Paper	IF	Citations
74	Multifunctional Two-Dimensional Polymers for Perovskite Solar Cells with Efficiency Exceeding 24%. <i>ACS Energy Letters</i> , 2022 , 7, 1128-1136	20.1	11
73	Crystal Growth Regulation of 2D/3D Perovskite Films for Solar Cells with Both High Efficiency and Stability.. <i>Advanced Materials</i> , 2022 , e2200705	24	11
72	Highly Efficient and Stable Dion-Jacobson Perovskite Solar Cells Enabled by Extended Conjugation of Organic Spacer. <i>Advanced Materials</i> , 2021 , e2105083	24	22
71	Central-Core Engineering of Dopant-Free Hole Transport Materials for Efficient n-i-p Structured Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100184	7.1	5
70	Spacer Engineering Using Aromatic Formamidinium in 2D/3D Hybrid Perovskites for Highly Efficient Solar Cells. <i>ACS Nano</i> , 2021 , 15, 7811-7820	16.7	39
69	Fluorinated Aromatic Formamidinium Spacers Boost Efficiency of Layered Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 2072-2080	20.1	18
68	Multiple-Noncovalent-Interaction-Stabilized Layered Dion-Jacobson Perovskite for Efficient Solar Cells. <i>Nano Letters</i> , 2021 , 21, 5788-5797	11.5	15
67	A solution-processed nanoscale COF-like material towards optoelectronic applications. <i>Science China Chemistry</i> , 2021 , 64, 82-91	7.9	15
66	Fused or unfused? Two-dimensional non-fullerene acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2319-2324	13	16
65	Coplanar phenanthro[9,10-d]imidazole based hole-transporting material enabling over 19%/21% efficiency in inverted/regular perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 421, 129823	14.7	8
64	Thiophene-Based Two-Dimensional Dion-Jacobson Perovskite Solar Cells with over 15% Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11114-11122	16.4	95
63	2-Thiopheneformamidinium-Based 2D Ruddlesden-Popper Perovskite Solar Cells with Efficiency of 16.72% and Negligible Hysteresis. <i>Advanced Energy Materials</i> , 2020 , 10, 2000694	21.8	54
62	Phase Distribution and Carrier Dynamics in Multiple-Ring Aromatic Spacer-Based Two-Dimensional Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Nano</i> , 2020 , 14, 4871-4881	16.7	60
61	Organic-Salt-Assisted Crystal Growth and Orientation of Quasi-2D Ruddlesden-Popper Perovskites for Solar Cells with Efficiency over 19. <i>Advanced Materials</i> , 2020 , 32, e2001470	24	83
60	A mixed hole transport material employing a highly planar conjugated molecule for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5163-5170	13	21
59	Integrated Optoelectronics: Integrated Perovskite/Bulk-Heterojunction Organic Solar Cells (Adv. Mater. 3/2020). <i>Advanced Materials</i> , 2020 , 32, 2070020	24	
58	Lattice reconstruction of La-incorporated CsPbI ₂ Br with suppressed phase transition for air-processed all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3351-3358	7.1	19

57	Integrated Perovskite/Bulk-Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1805843	24	40
56	Ultra-narrow bandgap non-fullerene acceptors for organic solar cells with low energy loss. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2157-2163	7.8	16
55	Highly Efficient and Stable Solar Cells Based on Crystalline Oriented 2D/3D Hybrid Perovskite. <i>Advanced Materials</i> , 2019 , 31, e1901242	24	127
54	Extended Conjugation Length of Nonfullerene Acceptors with Improved Planarity via Noncovalent Interactions for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801618	21.8	79
53	Cesium Halides-Assisted Crystal Growth of Perovskite Films for Efficient Planar Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 5264-5271	9.6	18
52	Two-Dimensional Ruddlesden-Popper Perovskite with Nanorod-like Morphology for Solar Cells with Efficiency Exceeding 15. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11639-11646	16.4	282
51	Recent progress of dopant-free organic hole-transporting materials in perovskite solar cells. <i>Journal of Semiconductors</i> , 2017 , 38, 011005	2.3	21
50	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. <i>Nano Letters</i> , 2017 , 17, 5140-5147	11.5	61
49	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016 , 11, 75-81	28.7	1614
48	Guanidinium: A Route to Enhanced Carrier Lifetime and Open-Circuit Voltage in Hybrid Perovskite Solar Cells. <i>Nano Letters</i> , 2016 , 16, 1009-16	11.5	400
47	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016 , 28, 440-6	24	217
46	Perovskite solar cells: film formation and properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9032-9050	3	327
45	The optoelectronic role of chlorine in CH ₃ NH ₃ PbI ₃ (Cl)-based perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7269	17.4	354
44	A dopant-free organic hole transport material for efficient planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11940-11947	13	182
43	Efficient hole transport layers with widely tunable work function for deep HOMO level organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23955-23963	13	32
42	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015 , 115, 12633-65	68.1	863
41	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15540-7	16.4	433
40	Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8	11.5	129

- 39 Planar heterojunction perovskite solar cells via vapor-assisted solution process. *Journal of the American Chemical Society*, **2014**, 136, 622-5 16.4 1921
- 38 Impact of fluorinated end groups on the properties of acceptor-donor-acceptor type oligothiophenes for solution-processed photovoltaic cells. *Journal of Materials Chemistry C*, **2014**, 2, 1337-1345¹⁶ 7.1 1345
- 37 Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. *ACS Nano*, **2014**, 8, 1674-80 16.7 1216
- 36 Direct light pattern integration of low-temperature solution-processed all-oxide flexible electronics. *ACS Nano*, **2014**, 8, 9680-6 16.7 106
- 35 Side-Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. *Advanced Energy Materials*, **2014**, 4, 1300864 21.8 76
- 34 Photovoltaics. Interface engineering of highly efficient perovskite solar cells. *Science*, **2014**, 345, 542-6 33.3 5272
- 33 Interface control in organic electronics using mixed monolayers of carboranethiol isomers. *Nano Letters*, **2014**, 14, 2946-51 11.5 75
- 32 The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2014**, 130, 20-26 6.4 65
- 31 Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. *Nano Letters*, **2014**, 14, 4158-63 11.5 1143
- 30 Moisture assisted perovskite film growth for high performance solar cells. *Applied Physics Letters*, **2014**, 105, 183902 3.4 598
- 29 Elucidating double aggregation mechanisms in the morphology optimization of diketopyrrolopyrrole-based narrow bandgap polymer solar cells. *Advanced Materials*, **2014**, 26, 3142-7 24 47
- 28 Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. *Scientific Reports*, **2013**, 3, 3356 4.9 511
- 27 Improved efficiency of solution processed small molecules organic solar cells using thermal annealing. *Organic Electronics*, **2013**, 14, 1562-1569 3.5 23
- 26 Investigation of Quinquethiophene Derivatives with Different End Groups for High Open Circuit Voltage Solar Cells. *Advanced Energy Materials*, **2013**, 3, 639-646 21.8 60
- 25 Solution-processed and high-performance organic solar cells using small molecules with a benzodithiophene unit. *Journal of the American Chemical Society*, **2013**, 135, 8484-7 16.4 644
- 24 Active layer-incorporated, spectrally tuned Au/SiO₂ core/shell nanorod-based light trapping for organic photovoltaics. *ACS Nano*, **2013**, 7, 3815-22 16.7 124
- 23 Solution-processed small molecules using different electron linkers for high-performance solar cells. *Advanced Materials*, **2013**, 25, 4657-62 24 92
- 22 Synthesis of 5H-Dithieno[3,2-b:2',3'-d]pyran as an Electron-Rich Building Block for Donor-Acceptor Type Low-Bandgap Polymers. *Macromolecules*, **2013**, 46, 3384-3390 5.5 273

21	Bromination of Isothianaphthene Derivatives towards the Application in Organic Electronics. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1391-1396	4.9	4
20	Solution Processable Rhodanine-Based Small Molecule Organic Photovoltaic Cells with a Power Conversion Efficiency of 6.1%. <i>Advanced Energy Materials</i> , 2012 , 2, 74-77	21.8	288
19	Small molecules based on benzo[1,2-b:4,5-b']dithiophene unit for high-performance solution-processed organic solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16345-51	16.4	538
18	Impact of dye end groups on acceptor-donor-acceptor type molecules for solution-processed photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9173		65
17	Isothianaphthene-Based Conjugated Polymers for Organic Photovoltaic Cells. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1596-1603	2.6	6
16	A Planar Small Molecule with Dithienosilole Core for High Efficiency Solution-Processed Organic Photovoltaic Cells. <i>Chemistry of Materials</i> , 2011 , 23, 4666-4668	9.6	198
15	Synthesis and properties of copolymers based on 5,6-dinitrobenzothiadiazole with low band gap and broad absorption spectra. <i>Science China Chemistry</i> , 2011 , 54, 617-624	7.9	1
14	Synthesis and Photovoltaic Properties of a Poly(2,7-carbazole) Derivative Based on Dithienosilole and Benzothiadiazole. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 1109-1114	2.6	10
13	High-performance solar cells using a solution-processed small molecule containing benzodithiophene unit. <i>Advanced Materials</i> , 2011 , 23, 5387-91	24	254
12	Spin-Coated Small Molecules for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 771-775	21.5	221
11	Organic radicals based on phenalenyl and verdazyl units. <i>Tetrahedron Letters</i> , 2011 , 52, 3670-3673	2	9
10	Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. <i>Applied Physics Letters</i> , 2010 , 97, 023303	3.4	83
9	Efficient solution processed bulk-heterojunction solar cells based a donor-acceptor oligothiophene. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2464		102
8	Synthesis of New Conjugated CNPPV Derivatives Containing Different Lengths of Oligothiophene Units for Organic Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 2503-2509	2.6	6
7	Synthesis and properties of acceptor-donor-acceptor molecules based on oligothiophenes with tunable and low band gap. <i>Tetrahedron</i> , 2009 , 65, 5209-5215	2.4	64
6	Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. <i>Carbon</i> , 2009 , 47, 3113-3121	10.4	198
5	Enhanced nonlinear optical properties of graphene-oligothiophene hybrid material. <i>Optics Express</i> , 2009 , 17, 23959-64	3.3	56
4	An Arene-Mercury(II) N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2009 , 28, 5590-5592	3.8	21

3	9,10-Bis[3-(2-pyridylmethyl)imidazolium-1-ylmethyl]anthracene bis(hexafluorophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, o2930-o2931		2
2	Multifunctional Two-Dimensional Conjugated Materials for Dopant-Free Perovskite Solar Cells with Efficiency Exceeding 22%. <i>ACS Energy Letters</i> ,1521-1532	20.1	37
1	Integrated Quasi-2D Perovskite/Organic Solar Cells with Efficiency over 19% Promoted by Interface Passivation. <i>Advanced Functional Materials</i> ,2107129	15.6	4