

Yongsheng Liu

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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 | Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014 , 345, 542-6 | 33.3 | 5272 |
| 73 | Planar heterojunction perovskite solar cells via vapor-assisted solution process. <i>Journal of the American Chemical Society</i> , 2014 , 136, 622-5 | 16.4 | 1921 |
| 72 | 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 |
| 71 | Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. <i>ACS Nano</i> , 2014 , 8, 1674-80 | 16.7 | 1216 |
| 70 | Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. <i>Nano Letters</i> , 2014 , 14, 4158-63 | 11.5 | 1143 |
| 69 | Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015 , 115, 12633-65 | 68.1 | 863 |
| 68 | Solution-processed and high-performance organic solar cells using small molecules with a benzodithiophene unit. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8484-7 | 16.4 | 644 |
| 67 | Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 183902 | 3.4 | 598 |
| 66 | 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 |
| 65 | Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013 , 3, 3356 | 4.9 | 511 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | Perovskite solar cells: film formation and properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9032-9050 | 3 | 327 |
| 60 | 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 |
| 59 | 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 |
| 58 | Synthesis of 5H-Dithieno[3,2-b:2',3'-d]pyran as an Electron-Rich Building Block for Donor-Acceptor Type Low-Bandgap Polymers. <i>Macromolecules</i> , 2013 , 46, 3384-3390 | 5.5 | 273 |

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| 57 | High-performance solar cells using a solution-processed small molecule containing benzodithiophene unit. <i>Advanced Materials</i> , 2011 , 23, 5387-91 | 24 | 254 |
| 56 | Spin-Coated Small Molecules for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 771-775 | 22.1 | |
| 55 | Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016 , 28, 440-6 | 24 | 217 |
| 54 | 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 |
| 53 | Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. <i>Carbon</i> , 2009 , 47, 3113-3121 | 10.4 | 198 |
| 52 | 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 |
| 51 | Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8 | 11.5 | 129 |
| 50 | Highly Efficient and Stable Solar Cells Based on Crystalline Oriented 2D/3D Hybrid Perovskite. <i>Advanced Materials</i> , 2019 , 31, e1901242 | 24 | 127 |
| 49 | Active layer-incorporated, spectrally tuned Au/SiO ₂ core/shell nanorod-based light trapping for organic photovoltaics. <i>ACS Nano</i> , 2013 , 7, 3815-22 | 16.7 | 124 |
| 48 | Direct light pattern integration of low-temperature solution-processed all-oxide flexible electronics. <i>ACS Nano</i> , 2014 , 8, 9680-6 | 16.7 | 106 |
| 47 | Efficient solution processed bulk-heterojunction solar cells based a donor-acceptor oligothiophene. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2464 | | 102 |
| 46 | 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 |
| 45 | Solution-processed small molecules using different electron linkers for high-performance solar cells. <i>Advanced Materials</i> , 2013 , 25, 4657-62 | 24 | 92 |
| 44 | 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 |
| 43 | Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. <i>Applied Physics Letters</i> , 2010 , 97, 023303 | 3.4 | 83 |
| 42 | 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 |
| 41 | Side-Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. <i>Advanced Energy Materials</i> , 2014 , 4, 1300864 | 21.8 | 76 |
| 40 | Interface control in organic electronics using mixed monolayers of carboranethiol isomers. <i>Nano Letters</i> , 2014 , 14, 2946-51 | 11.5 | 75 |

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| 39 | The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 20-26 | 6.4 | 65 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | Investigation of Quinquethiophene Derivatives with Different End Groups for High Open Circuit Voltage Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 639-646 | 21.8 | 60 |
| 33 | Enhanced nonlinear optical properties of graphene-oligothiophene hybrid material. <i>Optics Express</i> , 2009 , 17, 23959-64 | 3.3 | 56 |
| 32 | 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 |
| 31 | Elucidating double aggregation mechanisms in the morphology optimization of diketopyrrolopyrrole-based narrow bandgap polymer solar cells. <i>Advanced Materials</i> , 2014 , 26, 3142-7 | 24 | 47 |
| 30 | Integrated Perovskite/Bulk-Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1805843 | 24 | 40 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Improved efficiency of solution processed small molecules organic solar cells using thermal annealing. <i>Organic Electronics</i> , 2013 , 14, 1562-1569 | 3.5 | 23 |
| 25 | Highly Efficient and Stable Dion-Jacobson Perovskite Solar Cells Enabled by Extended π -Conjugation of Organic Spacer. <i>Advanced Materials</i> , 2021 , e2105083 | 24 | 22 |
| 24 | Recent progress of dopant-free organic hole-transporting materials in perovskite solar cells. <i>Journal of Semiconductors</i> , 2017 , 38, 011005 | 2.3 | 21 |
| 23 | 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 |
| 22 | An Arene-Mercury(II) N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2009 , 28, 5590-5592 | 3.8 | 21 |

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| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | Impact of fluorinated end groups on the properties of acceptor-donor-acceptor type oligothiophenes for solution-processed photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1337-1345 ¹⁶ | 7.1 | 16 |
| 16 | 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 |
| 15 | Multiple-Noncovalent-Interaction-Stabilized Layered Dion-Jacobson Perovskite for Efficient Solar Cells. <i>Nano Letters</i> , 2021 , 21, 5788-5797 | 11.5 | 15 |
| 14 | A solution-processed nanoscale COF-like material towards optoelectronic applications. <i>Science China Chemistry</i> , 2021 , 64, 82-91 | 7.9 | 15 |
| 13 | Multifunctional Two-Dimensional Polymers for Perovskite Solar Cells with Efficiency Exceeding 24%. <i>ACS Energy Letters</i> , 2022 , 7, 1128-1136 | 20.1 | 11 |
| 12 | 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 |
| 11 | 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 |
| 10 | Organic radicals based on phenalenyl and verdazyl units. <i>Tetrahedron Letters</i> , 2011 , 52, 3670-3673 | 2 | 9 |
| 9 | 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 |
| 8 | Isothianaphthene-Based Conjugated Polymers for Organic Photovoltaic Cells. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1596-1603 | 2.6 | 6 |
| 7 | 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 |
| 6 | 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 |
| 5 | Bromination of Isothianaphthene Derivatives towards the Application in Organic Electronics. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1391-1396 | 4.9 | 4 |
| 4 | Integrated Quasi-2D Perovskite/Organic Solar Cells with Efficiency over 19% Promoted by Interface Passivation. <i>Advanced Functional Materials</i> , 2107129 | 15.6 | 4 |

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| 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 | 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 |
| 1 | Integrated Optoelectronics: Integrated Perovskite/Bulk-Heterojunction Organic Solar Cells (Adv. Mater. 3/2020). <i>Advanced Materials</i> , 2020 , 32, 2070020 | | 24 |