

# Sunsun Li

## List of Publications by Citations

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**Version:** 2024-04-27

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48  
papers

10,140  
citations

33  
h-index

50  
g-index

50  
ext. papers

11,135  
ext. citations

15.1  
avg, IF

6.57  
L-index

#	Paper	IF	Citations
48	Molecular Optimization Enables over 13% Efficiency in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7148-7151	16.4	2152
47	Fullerene-Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <i>Advanced Materials</i> , <b>2016</b> , 28, 4734-9	24	1507
46	Energy-Level Modulation of Small-Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 9423-9429	24	1191
45	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , <b>2016</b> , 116, 7397-457	68.1	824
44	A Wide Band Gap Polymer with a Deep Highest Occupied Molecular Orbital Level Enables 14.2% Efficiency in Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7159-7167	16.4	579
43	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , <b>2018</b> , 17, 703-709	27	500
42	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8283-8287	24	373
41	Ternary Polymer Solar Cells based on Two Acceptors and One Donor for Achieving 12.2% Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604059	24	314
40	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707170	24	295
39	High-Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multi-Length Scale Morphology and Device Performance. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602000	21.8	205
38	Design of a New Small-Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704051	24	200
37	Significant Influence of the Methoxyl Substitution Position on Optoelectronic Properties and Molecular Packing of Small-Molecule Electron Acceptors for Photovoltaic Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700183	21.8	155
36	Green-Solvent-Processed All-Polymer Solar Cells Containing a Perylene Diimide-Based Acceptor with an Efficiency over 6.5%. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501991	21.8	148
35	Two Well-Miscible Acceptors Work as One for Efficient Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700437	24	140
34	Environmentally Friendly Solvent-Processed Organic Solar Cells that are Highly Efficient and Adaptable for the Blade-Coating Method. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704837	24	138
33	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 4645	17.4	130
32	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 443-458	27.8	128

31	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705485	24	127
30	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , <b>2020</b> , 63, 1142-1150	7.1	99
29	Precise Manipulation of Multilength Scale Morphology and Its Influence on Eco-Friendly Printed All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702016	15.6	85
28	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7451-7458	9.6	83
27	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6178-6185	9.6	78
26	Fullerene-free polymer solar cell based on a polythiophene derivative with an unprecedented energy loss of less than 0.5 eV. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18043-18049	13	75
25	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. <i>Macromolecules</i> , <b>2015</b> , 48, 7156-7163	5.5	64
24	A Novel pH Neutral Self-Doped Polymer for Anode Interfacial Layer in Efficient Polymer Solar Cells. <i>Macromolecules</i> , <b>2016</b> , 49, 8126-8133	5.5	49
23	Subtle side-chain tuning on terminal groups of small molecule electron acceptors for efficient fullerene-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15175-15182	13	47
22	Potential of Nonfullerene Small Molecules with High Photovoltaic Performance. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 2160-2171	4.5	39
21	Correlating Three-dimensional Morphology With Function in PBDB-T:IT-M Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800114	7.1	39
20	Tunable Electron Donating and Accepting Properties Achieved by Modulating the Steric Hindrance of Side Chains in A-D-A Small-Molecule Photovoltaic Materials. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 619-628	9.6	39
19	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2057-2064	7.8	37
18	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43886-43892	9.5	35
17	A Self-Organized Poly(vinylpyrrolidone)-Based Cathode Interlayer in Inverted Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804657	24	35
16	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , <b>2015</b> , 58, 953-960	7.1	34
15	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3943-3951	9.6	26
14	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , <b>2019</b> , 62, 370-377	7.9	24

13	Efficient Fullerene-Free Polymer Solar Cells Based on Alkylthio Substituted Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4825-4833	3.8	22
12	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , <b>2017</b> , 60, 697-706	7.1	22
11	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1993-2003	8.6	21
10	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3206-3211	7.1	18
9	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3636-3643	9.6	17
8	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm Printed Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20205-20213	9.5	15
7	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14706-14712	13	7
6	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24184-24191	9.5	6
5	Facile Modification of a Noncovalently Fused-Ring Electron Acceptor Enables Efficient Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45806-45814	9.5	5
4	Solar Cells: Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent (Adv. Mater. 8/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870054	24	3
3	Terthiophene based non-fused electron acceptors for efficient organic solar cells. <i>Organic Electronics</i> , <b>2022</b> , 105, 106512	3.5	3
2	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. <i>Dyes and Pigments</i> , <b>2022</b> , 200, 110147	4.6	1
1	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 19756-19764	4.1	