

# Sunsun Li

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

11,969  
citations

117453

34  
h-index

205818

48  
g-index

50  
all docs

50  
docs citations

50  
times ranked

6895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. <i>Dyes and Pigments</i> , 2022, 200, 110147.	2.0	1
2	Terthiophene based non-fused electron acceptors for efficient organic solar cells. <i>Organic Electronics</i> , 2022, 105, 106512.	1.4	17
3	Facile Modification of a Noncovalently Fused-Ring Electron Acceptor Enables Efficient Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 45806-45814.	4.0	27
4	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy &amp; Fuels</i> , 2021, 35, 19756-19764.	2.5	0
5	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> , 2020, 12, 24184-24191.	4.0	7
6	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020, 63, 1142-1150.	3.5	140
7	Enhanced photovoltaic effect from naphtho[2,3- <i>c</i> ]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14706-14712.	5.2	10
8	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> , 2020, 32, 1993-2003.	3.2	36
9	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , 2019, 62, 370-377.	4.2	29
10	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3206-3211.	2.7	27
11	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm <sup>2</sup> Printed Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20205-20213.	4.0	28
12	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , 2019, 31, 3636-3643.	3.2	22
13	A Self-Organized Poly(vinylpyrrolidone)-Based Cathode Interlayer in Inverted Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1804657.	11.1	43
14	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019, 3, 443-458.	11.7	183
15	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> , 2018, 30, 1870054.	11.1	3
16	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. <i>Advanced Materials</i> , 2018, 30, 1705485.	11.1	150
17	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , 2018, 30, e1707170.	11.1	351
18	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> , 2018, 30, 619-628.	3.2	49

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19	Environmentally Friendly Solvent-Processed Organic Solar Cells that are Highly Efficient and Adaptable for the Blade-Coating Method. <i>Advanced Materials</i> , 2018, 30, 1704837.	11.1	173
20	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018, 9, 4645.	5.8	205
21	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. <i>Chemistry of Materials</i> , 2018, 30, 3943-3951.	3.2	38
22	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , 2018, 17, 703-709.	13.3	701
23	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> , 2018, 140, 7159-7167.	6.6	654
24	Correlating Three-dimensional Morphology With Function in PBDB-T:ITM Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800114.	3.1	49
25	Efficient Fullerene-Free Polymer Solar Cells Based on Alkylthio Substituted Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4825-4833.	1.5	28
26	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> , 2017, 7, 1700183.	10.2	184
27	Two Well-Miscible Acceptors Work as One for Efficient Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700437.	11.1	157
28	Molecular Optimization Enables over 13% Efficiency in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 7148-7151.	6.6	2,524
29	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2057-2064.	3.2	42
30	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> , 2017, 5, 15175-15182.	5.2	52
31	Potential of Nonfullerene Small Molecules with High Photovoltaic Performance. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2160-2171.	1.7	45
32	High-Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multi-Length Scale Morphology and Device Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1602000.	10.2	232
33	Design of a New Small-Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. <i>Advanced Materials</i> , 2017, 29, 1704051.	11.1	224
34	Precise Manipulation of Multilength Scale Morphology and Its Influence on Eco-Friendly Printed All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1702016.	7.8	99
35	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , 2017, 60, 697-706.	3.5	33
36	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43886-43892.	4.0	40

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37	Ternary Polymer Solar Cells based on Two Acceptors and One Donor for Achieving 12.2% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1604059.	11.1	333
38	Fullerene-free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <i>Advanced Materials</i> , 2016, 28, 4734-4739.	11.1	1,698
39	Green-solvent-Processed All-Polymer Solar Cells Containing a Perylene Diimide-Based Acceptor with an Efficiency over 6.5%. <i>Advanced Energy Materials</i> , 2016, 6, 1501991.	10.2	157
40	Energy-Level Modulation of Small-Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 9423-9429.	11.1	1,307
41	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. <i>Chemistry of Materials</i> , 2016, 28, 7451-7458.	3.2	91
42	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6178-6185.	3.2	87
43	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8283-8287.	11.1	421
44	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> , 2016, 4, 18043-18049.	5.2	88
45	A Novel pH Neutral Self-Doped Polymer for Anode Interfacial Layer in Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 8126-8133.	2.2	69
46	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , 2016, 116, 7397-7457.	23.0	998
47	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , 2015, 58, 953-960.	3.5	41
48	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. <i>Macromolecules</i> , 2015, 48, 7156-7163.	2.2	70
49	Over 13% Efficiency in Blade-coated Organic Solar Cells. , 0, , .		0