

Sunsun Li

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

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	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	4.6	1
47	Terthiophene based non-fused electron acceptors for efficient organic solar cells. <i>Organic Electronics</i> , 2022 , 105, 106512	3.5	3
46	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 19756-19764	4.1	
45	Facile Modification of a Noncovalently Fused-Ring Electron Acceptor Enables Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45806-45814	9.5	5
44	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 & Interfaces</i> , 2020 , 12, 24184-24191	9.5	6
43	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020 , 63, 1142-1150	7.1	99
42	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> , 2020 , 8, 14706-14712	13	7
41	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	8.6	21
40	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , 2019 , 62, 370-377	7.9	24
39	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	7.1	18
38	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm Printed Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20205-20213	9.5	15
37	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , 2019 , 31, 3636-3643	9.6	17
36	A Self-Organized Poly(vinylpyrrolidone)-Based Cathode Interlayer in Inverted Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1804657	24	35
35	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019 , 3, 443-458	27.8	128
34	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	24	3
33	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	24	127
32	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	24	295

31	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , 2018 , 17, 703-709	27	500
30	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	16.4	579
29	Correlating Three-dimensional Morphology With Function in PBDB-T:IT-M Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800114	7.1	39
28	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	9.6	39
27	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	24	138
26	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018 , 9, 4645	17.4	130
25	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	9.6	26
24	Efficient Fullerene-Free Polymer Solar Cells Based on Alkylthio Substituted Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4825-4833	3.8	22
23	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	21.8	155
22	Two Well-Miscible Acceptors Work as One for Efficient Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1700437	24	140
21	Molecular Optimization Enables over 13% Efficiency in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7148-7151	16.4	2152
20	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2057-2064	7.8	37
19	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	13	47
18	Potential of Nonfullerene Small Molecules with High Photovoltaic Performance. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2160-2171	4.5	39
17	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	21.8	205
16	Design of a New Small-Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. <i>Advanced Materials</i> , 2017 , 29, 1704051	24	200
15	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	15.6	85
14	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	7.1	22

13	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43886-43892	9.5	35
12	Ternary Polymer Solar Cells based on Two Acceptors and One Donor for Achieving 12.2% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1604059	24	314
11	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 6178-6185	9.6	78
10	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8283-8287	24	373
9	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	13	75
8	A Novel pH Neutral Self-Doped Polymer for Anode Interfacial Layer in Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2016 , 49, 8126-8133	5.5	49
7	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , 2016 , 116, 7397-457	68.1	824
6	Fullerene-Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <i>Advanced Materials</i> , 2016 , 28, 4734-9	24	1507
5	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	21.8	148
4	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	24	1191
3	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	9.6	83
2	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. <i>Macromolecules</i> , 2015 , 48, 7156-7163	5.5	64
1	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , 2015 , 58, 953-960	7.1	34