

Yuze Lin

List of Publications by Year in descending order

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16,983
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50170

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docs citations

96
times ranked

11016
citing authors

#	ARTICLE	IF	CITATIONS
1	An Electron Acceptor Challenging Fullerenes for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 1170-1174.	11.1	3,365
2	Defect passivation in hybrid perovskite solar cells using quaternary ammonium halide anions and cations. <i>Nature Energy</i> , 2017, 2, .	19.8	1,694
3	Small molecule semiconductors for high-efficiency organic photovoltaics. <i>Chemical Society Reviews</i> , 2012, 41, 4245.	18.7	1,601
4	High-Performance Electron Acceptor with Thienyl Side Chains for Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2016, 138, 4955-4961.	6.6	915
5	A Facile Planar Fused-Ring Electron Acceptor for As-Cast Polymer Solar Cells with 8.71% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 2973-2976.	6.6	885
6	Non-fullerene acceptors for organic photovoltaics: an emerging horizon. <i>Materials Horizons</i> , 2014, 1, 470.	6.4	694
7	High-performance fullerene-free polymer solar cells with 6.31% efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 610-616.	15.6	587
8	Oligomer Molecules for Efficient Organic Photovoltaics. <i>Accounts of Chemical Research</i> , 2016, 49, 175-183.	7.6	560
9	Conjugated Lewis Base: Efficient Trap Passivation and Charge Extraction for Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604545.	11.1	543
10	A Star-Shaped Perylene Diimide Electron Acceptor for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2014, 26, 5137-5142.	11.1	390
11	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	11.1	360
12	Dual Functions of Crystallization Control and Defect Passivation Enabled by Sulfonic Zwitterions for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1803428.	11.1	296
13	Thiazole-Based Organic Semiconductors for Organic Electronics. <i>Advanced Materials</i> , 2012, 24, 3087-3106.	11.1	288
14	Selenium Heterocyclic Electron Acceptor with Small Urbach Energy for As-Cast High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 18741-18745.	6.6	288
15	A 3D star-shaped non-fullerene acceptor for solution-processed organic solar cells with a high open-circuit voltage of 1.18 V. <i>Chemical Communications</i> , 2012, 48, 4773.	2.2	281
16	A Solution-Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1166-1170.	10.2	203
17	Designing Efficient Non-Fullerene Acceptors by Tailoring Extended Fused Rings with Electron-Deficient Groups. <i>Advanced Energy Materials</i> , 2015, 5, 1501063.	10.2	203
18	Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation. <i>Advanced Materials</i> , 2018, 30, 1704713.	11.1	199

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19	Simplified interconnection structure based on C60/SnO _{2-x} for all-perovskite tandem solar cells. <i>Nature Energy</i> , 2020, 5, 657-665.	19.8	186
20	Matching Charge Extraction Contact for Wide-Bandgap Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700607.	11.1	178
21	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018, 30, e1706363.	11.1	172
22	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. <i>Science Advances</i> , 2021, 7, .	4.7	165
23	A Solution-Processable Electron Acceptor Based on Dibenzosilole and Diketopyrrolopyrrole for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 724-728.	10.2	161
24	Excess charge-carrier induced instability of hybrid perovskites. <i>Nature Communications</i> , 2018, 9, 4981.	5.8	159
25	Structure Evolution of Oligomer Fused-Ring Electron Acceptors toward High Efficiency of As-Cast Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600854.	10.2	152
26	A Twisted Dimeric Perylene Diimide Electron Acceptor for Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400420.	10.2	126
27	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 1231-1240.	8.8	111
28	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008134.	11.1	91
29	Small-Molecule Solar Cells with Fill Factors up to 0.75 via a Layer-by-Layer Solution Process. <i>Advanced Energy Materials</i> , 2014, 4, 1300626.	10.2	90
30	Roll-coating fabrication of flexible organic solar cells: comparison of fullerene and fullerene-free systems. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1044-1051.	5.2	84
31	Argon Plasma Treatment to Tune Perovskite Surface Composition for High Efficiency Solar Cells and Fast Photodetectors. <i>Advanced Materials</i> , 2018, 30, 1705176.	11.1	81
32	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1702090.	7.8	79
33	Alkoxy-Induced Near-Infrared Sensitive Electron Acceptor for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4150-4156.	3.2	79
34	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.	4.5	78
35	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. <i>Macromolecules</i> , 2016, 49, 6445-6454.	2.2	76
36	Highly Sensitive Organic Photodetectors with Tunable Spectral Response under Bi-Directional Bias. <i>Advanced Optical Materials</i> , 2016, 4, 1711-1717.	3.6	75

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37	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. <i>Science Advances</i> , 2021, 7, eabi8249.	4.7	71
38	A star-shaped oligothiophene end-capped with alkyl cyanoacetate groups for solution-processed organic solar cells. <i>Chemical Communications</i> , 2012, 48, 9655.	2.2	70
39	Metallic surface doping of metal halide perovskites. <i>Nature Communications</i> , 2021, 12, 7.	5.8	66
40	Fast Growth of Thin MAPbI ₃ Crystal Wafers on Aqueous Solution Surface for Efficient Lateral Structure Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1807707.	7.8	62
41	Ambient roll-to-roll fabrication of flexible solar cells based on small molecules. <i>Journal of Materials Chemistry C</i> , 2013, 1, 8007.	2.7	59
42	Low-cost materials for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15395-15406.	2.7	58
43	Non-radiative Recombination Energy Losses in Non-fullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	58
44	Revealing defective nanostructured surfaces and their impact on the intrinsic stability of hybrid perovskites. <i>Energy and Environmental Science</i> , 2021, 14, 1563-1572.	15.6	55
45	Efficient fullerene-free organic solar cells based on fused-ring oligomer molecules. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1486-1494.	5.2	48
46	Perylene and naphthalene diimide polymers for all-polymer solar cells: a comparative study of chemical copolymerization and physical blend. <i>Polymer Chemistry</i> , 2015, 6, 5254-5263.	1.9	47
47	Asymmetric Glycolated Substitution for Enhanced Permittivity and Ecocompatibility of High-Performance Photovoltaic Electron Acceptor. <i>Jacs Au</i> , 2021, 1, 1733-1742.	3.6	47
48	Evolved structure of thiazolothiazole based small molecules towards enhanced efficiency in organic solar cells. <i>Organic Electronics</i> , 2013, 14, 599-606.	1.4	45
49	Oligothiophene-bridged perylene diimide dimers for fullerene-free polymer solar cells: effect of bridge length. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13000-13010.	5.2	45
50	Nonfullerene All-small-molecule Organic Solar Cells: Prospect and Limitation. <i>Solar Rrl</i> , 2020, 4, 2000258.	3.1	43
51	One, two and three-branched triphenylamine-oligothiophene hybrids for solution-processed solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5128.	5.2	41
52	Stability: next focus in organic solar cells based on non-fullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2907-2930.	3.2	39
53	A star-shaped electron acceptor based on 5,5'-bibenzothiadiazole for solution processed solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14627.	5.2	38
54	Enhancing the performance of a fused-ring electron acceptor <i>via</i> extending benzene to naphthalene. <i>Journal of Materials Chemistry C</i> , 2018, 6, 66-71.	2.7	38

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55	Conjugated Polymers Based on a New Building Block: Dithienophthalimide. <i>Macromolecules</i> , 2011, 44, 4213-4221.	2.2	36
56	Small molecules based on bithiazole for solution-processed organic solar cells. <i>Organic Electronics</i> , 2012, 13, 673-680.	1.4	36
57	Comparison of additive amount used in spin-coated and roll-coated organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19542-19549.	5.2	36
58	Perylene diimide-thienylenevinylene-based small molecule and polymer acceptors for solution-processed fullerene-free organic solar cells. <i>Dyes and Pigments</i> , 2015, 114, 283-289.	2.0	28
59	Exciton Binding Energy of Non-Fullerene Electron Acceptors. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	27
60	Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1111-1118.	2.5	26
61	Organic Photovoltaic Catalyst with Extended Exciton Diffusion for High-Performance Solar Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 12747-12755.	6.6	26
62	Two-Dimensional Polycyclic Photovoltaic Molecule with Low Trap Density for High-Performance Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
63	Monodisperse macromolecules based on benzodithiophene and diketopyrrolopyrrole with strong NIR absorption and high mobility. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3781-3791.	2.7	22
64	Efficient room temperature catalytic synthesis of alternating conjugated copolymers via C-S bond activation. <i>Nature Communications</i> , 2022, 13, 144.	5.8	21
65	Intrinsically inert hyperbranched interlayer for enhanced stability of organic solar cells. <i>Science Bulletin</i> , 2022, 67, 171-177.	4.3	20
66	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogen Substitution for Sensitive Near Infrared Detection. <i>Advanced Materials</i> , 2022, 34, e2201600.	11.1	19
67	Cracking perylene diimide backbone for fullerene-free polymer solar cells. <i>Dyes and Pigments</i> , 2016, 128, 226-234.	2.0	18
68	Spirobifluorene-based acceptors for polymer solar cells: Effect of isomers. <i>Dyes and Pigments</i> , 2015, 123, 16-25.	2.0	16
69	Organic Semiconductors for Vacuum-Deposited Planar Heterojunction Solar Cells. <i>ACS Omega</i> , 2020, 5, 24994-24999.	1.6	16
70	Defect-Free Alternating Conjugated Polymers Enabled by Room-Temperature Stille Polymerization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
71	Influence of Thiophene Moiety on the Excited State Properties of Push-Pull Chromophores. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13922-13930.	1.5	14
72	Nonfullerene acceptor with strong near-infrared absorption for polymer solar cells. <i>Dyes and Pigments</i> , 2017, 137, 553-559.	2.0	14

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73	Planar heterojunctions for reduced non-radiative open-circuit voltage loss and enhanced stability of organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11715-11721.	2.7	13
74	Single photovoltaic material solar cells with enhanced exciton dissociation and extended electron diffusion. <i>Cell Reports Physical Science</i> , 2022, 3, 100895.	2.8	13
75	Fine-Tuning Contact via Complexation for High-Performance Organic Solar Cells. <i>CCS Chemistry</i> , 2022, 4, 1087-1097.	4.6	12
76	An Alkoxy-Solubilizing Decacyclic Electron Acceptor for Efficient Ecofriendly As-Cast Blade-Coated Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000108.	3.1	11
77	Organic photovoltaic electron acceptors showing aggregation-induced emission for reduced nonradiative recombination. <i>Chemical Communications</i> , 2021, 57, 5135-5138.	2.2	10
78	Enhancing photovoltaic performance via aggregation dynamics control in fused-ring electron acceptor. <i>Aggregate</i> , 2021, 2, e29.	5.2	10
79	Perovskite solar cells with embedded homojunction via nonuniform metal ion doping. <i>Cell Reports Physical Science</i> , 2021, 2, 100415.	2.8	10
80	A Novel, Weakly N-Doped Cathode-Modifying Layer in Organic Solar Cells. <i>Energy Technology</i> , 2021, 9, 2100281.	1.8	10
81	Fused thienobenzene-thienothiophene electron acceptors for organic solar cells. <i>Journal of Energy Chemistry</i> , 2019, 37, 58-65.	7.1	7
82	Co ²⁺ -Tuned Tin Oxide Interfaces for Enhanced Stability of Organic Solar Cells. <i>Langmuir</i> , 2021, 37, 3173-3179.	1.6	7
83	Bayannulated indigo based near-infrared sensitive polymer for organic solar cells. <i>Journal of Polymer Science Part A</i> , 2018, 56, 213-220.	2.5	6
84	Surface fluoride management for enhanced stability and efficiency of halide perovskite solar cells via a thermal evaporation method. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12882-12889.	5.2	5
85	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000Ånm. <i>Dyes and Pigments</i> , 2021, 195, 109705.	2.0	4
86	Two-Dimensional Polycyclic Photovoltaic Molecule with Low Trap Density for High-Performance Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 0, , .	1.6	4
87	Solar Cells: A Star-Shaped Perylene Diimide Electron Acceptor for High-Performance Organic Solar Cells (<i>Adv. Mater.</i> 30/2014). <i>Advanced Materials</i> , 2014, 26, 5224-5224.	11.1	3
88	Revealing the Unusual Efficiency Enhancement of Organic Solar Cells with Polymer-Donor-Treated Cathode Contacts. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 937-943.	2.0	3
89	Effects of Thieno[3,2-b]thiophene Number on Narrow-Bandgap Fused-Ring Electron Acceptors. <i>Chinese Journal of Polymer Science (English Edition)</i> , 0, , .	2.0	1
90	Defect-Free Alternating Conjugated Polymers Enabled by Room-Temperature Stille Polymerization. <i>Angewandte Chemie</i> , 0, , .	1.6	0

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91	Defect-Free Alternating Conjugated Polymers Enabled by Room-Temperature Stille Polymerization (Angew. Chem. 16/2022). Angewandte Chemie, 2022, 134, .	1.6	0
92	Vacuum-Assisted Thermal Annealing of CsPbI ₃ for Highly Stable and Efficient Inorganic Perovskite Solar Cells. Angewandte Chemie, 0, , .	1.6	0