

Minmin Shi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1289199/minmin-shi-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

8,975
citations

39
h-index

94
g-index

104
ext. papers

10,463
ext. citations

9.7
avg, IF

6.63
L-index

#	Paper	IF	Citations
99	Graphene-like two-dimensional materials. <i>Chemical Reviews</i> , 2013 , 113, 3766-98	68.1	3191
98	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020 , 13, 635-645	35.4	462
97	Dopant-Free Hole-Transporting Material with a C3h Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2528-31	16.4	395
96	A spirobifluorene and diketopyrrolopyrrole moieties based non-fullerene acceptor for efficient and thermally stable polymer solar cells with high open-circuit voltage. <i>Energy and Environmental Science</i> , 2016 , 9, 604-610	35.4	316
95	New Phase for Organic Solar Cell Research: Emergence of Y-Series Electron Acceptors and Their Perspectives. <i>ACS Energy Letters</i> , 2020 , 5, 1554-1567	20.1	301
94	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, 1705208	24	272
93	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3073-3082	16.4	251
92	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , 2021 , 33, e2007231	24	243
91	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , 2019 , 10, 2152	17.4	214
90	Efficient Organic Solar Cells with Non-Fullerene Acceptors. <i>Small</i> , 2017 , 13, 1701120	11	185
89	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001160	24	162
88	Blending of H ₂ AuCl ₄ and histidine in aqueous solution: a simple approach to the Au ₁₀ cluster. <i>Nanoscale</i> , 2011 , 3, 2596-601	7.7	161
87	Molecular Engineered Hole-Extraction Materials to Enable Dopant-Free, Efficient p-i-n Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700012	21.8	159
86	Atomically monodispersed and fluorescent sub-nanometer gold clusters created by biomolecule-assisted etching of nanometer-sized gold particles and rods. <i>Chemistry - A European Journal</i> , 2009 , 15, 4944-51	4.8	142
85	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5954-5966	15.6	123
84	Molecular electron acceptors for efficient fullerene-free organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3440-3458	3.6	101
83	Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V. <i>Advanced Materials</i> , 2016 , 28, 9729-9734	24	98

82	A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10659-10665	13	97
81	A non-fullerene acceptor with a fully fused backbone for efficient polymer solar cells with a high open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14983-14987	13	87
80	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1800755	13.6	85
79	One-Step Fabrication of CdS Nanorod Arrays via Solution Chemistry. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13457-13462	3.8	80
78	Revealing the effects of molecular packing on the performances of polymer solar cells based on A ₁ type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12132-12141	13	80
77	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9649-9654	13	72
76	A solution-processable bipolar diketopyrrolopyrrole molecule used as both electron donor and acceptor for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1902-1905	13	71
75	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3777-3783	13	67
74	An ester-functionalized diketopyrrolopyrrole molecule with appropriate energy levels for application in solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 105-111	13	60
73	Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27632-27639	13	57
72	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16700-16706	9.5	53
71	Near-Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. <i>Small Methods</i> , 2019 , 3, 1900531	12.8	50
70	Effect of CsF interlayer on the performance of polymer bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 650-653	6.4	49
69	Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42444-42452	9.5	49
68	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9396-9401	13	48
67	Template-free synthesis of vertically aligned CdS nanorods and its application in hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 338-344	6.4	47
66	Si/ZnO core-shell nanowire arrays for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15153-15159	6.7	46
65	Fe(3)O(4)@Au/polyaniline multifunctional nanocomposites: their preparation and optical, electrical and magnetic properties. <i>Nanotechnology</i> , 2008 , 19, 265702	3.4	45

64	High efficiency hybrid solar cells using post-deposition ligand exchange by monothiols. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12094-8	3.6	42
63	Shape-controlled syntheses of PbS submicro-/nano-crystals via hydrothermal method. <i>Journal of Crystal Growth</i> , 2009 , 311, 1533-1538	1.6	42
62	Improved photon-to-electron response of ternary blend organic solar cells with a low band gap polymer sensitizer and interfacial modification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1702-1707	13	41
61	Incorporation of ester groups into low band-gap diketopyrrolopyrrole containing polymers for solar cell applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15710		40
60	A diketopyrrolopyrrole molecule end-capped with a furan-2-carboxylate moiety: the planarity of molecular geometry and photovoltaic properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6589	13	38
59	Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 513-519	7.8	37
58	Synthesis, characterization, and photovoltaic property of a low band gap polymer alternating dithienopyrrole and thienopyrroledione units. <i>Polymer</i> , 2011 , 52, 2559-2564	3.9	33
57	A simple synthesis of Fe ₃ O ₄ nanoclusters and their electromagnetic nanocomposites with polyaniline. <i>Materials Chemistry and Physics</i> , 2010 , 122, 588-594	4.4	33
56	Enhancement of intra- and inter-molecular π -conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2006-2012	7.8	33
55	Diketo-pyrrolo-pyrrole-Based Medium Band Gap Copolymers for Efficient Plastic Solar Cells: Morphology, Transport, and Composition-Dependent Photovoltaic Behavior. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11282-11292	3.8	32
54	Synthesis and photovoltaic properties of ester group functionalized polythiophene derivatives. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 506-11	4.8	32
53	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor-acceptor polymers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1785-1793	13	30
52	Improving polymer/nanocrystal hybrid solar cell performance via tuning ligand orientation at CdSe quantum dot surface. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19154-60	9.5	29
51	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 4627	17.4	29
50	Desired open-circuit voltage increase enables efficiencies approaching 19% in symmetric-asymmetric molecule ternary organic photovoltaics. <i>Joule</i> , 2022 , 6, 662-675	27.8	29
49	Synthesis, electrochemical, and spectroscopic properties of soluble perylene monoimide diesters. <i>Tetrahedron</i> , 2008 , 64, 5404-5409	2.4	28
48	A direct arylation-derived DPP-based small molecule for solution-processed organic solar cells. <i>Nanotechnology</i> , 2014 , 25, 014006	3.4	27
47	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. <i>Solar Rrl</i> , 2019 , 3, 1900317	7.1	24

46	High gas-sensitivity and selectivity of fluorinated zinc phthalocyanine film to some non-oxidizing gases at room temperature. <i>Thin Solid Films</i> , 2005 , 489, 257-261	2.2	23
45	Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. <i>IScience</i> , 2019 , 22, 534-543	6.1	22
44	Roll-coating fabrication of ITO-free flexible solar cells based on a non-fullerene small molecule acceptor. <i>RSC Advances</i> , 2015 , 5, 36001-36006	3.7	21
43	Highly efficient hybrid solar cells with tunable dipole at the donor-acceptor interface. <i>Nanoscale</i> , 2014 , 6, 10545-50	7.7	20
42	A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. <i>Chinese Chemical Letters</i> , 2019 , 30, 1277-1281	8.1	19
41	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. <i>Nano Research</i> , 2017 , 10, 3765-3774	10	18
40	Fe ₃ O ₄ nanobelts: one-pot and template-free synthesis, magnetic property, and application for lithium storage. <i>Nanotechnology</i> , 2012 , 23, 395601	3.4	18
39	Synthesis and photovoltaic properties of n-type conjugated polymers alternating 2,7-carbazole and arylene diimides. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 157-163	6.4	17
38	Optical and electrical effects of plasmonic nanoparticles in high-efficiency hybrid solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17105-11	3.6	17
37	Preparation and photo-induced charge transfer of the composites based on 3D structural CdS nanocrystals and MEH-PPV. <i>Solar Energy</i> , 2010 , 84, 771-776	6.8	17
36	Design of charge transporting grids for efficient ITO-free flexible up-scaled organic photovoltaics. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 304-309	7.8	16
35	Effect of end-groups on the photovoltaic property of diphenyl substituted diketopyrrolopyrrole derivatives. <i>Synthetic Metals</i> , 2014 , 188, 66-71	3.6	15
34	Phase controlled all-polymer bulk-heterojunction photovoltaic cells with high open-circuit voltage. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2244-2250	6.4	15
33	Design and synthesis of carbonyl group modified conjugated polymers for photovoltaic application. <i>Polymer Bulletin</i> , 2012 , 68, 1867-1877	2.4	14
32	Solvent-dependent fluorescence property of multi-walled carbon nanotubes noncovalently functionalized by pyrene-derivatized polymer. <i>Nanotechnology</i> , 2009 , 20, 135705	3.4	14
31	Water-soluble and highly fluorescent hybrids of multi-walled carbon nanotubes with uniformly arranged gold nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 485603	3.4	14
30	A non-fullerene electron acceptor with a spirobifluorene core and four diketopyrrolopyrrole arms end capped by 4-fluorobenzene. <i>Dyes and Pigments</i> , 2017 , 143, 217-222	4.6	13
29	A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. <i>Advanced Functional Materials</i> , 2018 , 28, 180614	15.6	13

28	New (D ₁ A ₁ D ₂)nType conjugated polymers for photovoltaic applications: consensus between low band-gap and low HOMO energy level. <i>Tetrahedron</i> , 2013 , 69, 3419-3424	2.4	11
27	Roll coated large area ITO- and vacuum-free all organic solar cells from diketopyrrolopyrrole based non-fullerene acceptors with molecular geometry effects. <i>RSC Advances</i> , 2016 , 6, 41542-41550	3.7	11
26	Synthesis of monodisperse and single-crystal Fe ₃ O ₄ hollow spheres by a solvothermal approach. <i>Materials Chemistry and Physics</i> , 2012 , 132, 987-992	4.4	10
25	Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 819-827	6.1	10
24	Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. <i>Solar Rrl</i> , 2020 , 4, 2000286	7.1	10
23	The effect of molecular geometry on the photovoltaic property of diketopyrrolopyrrole based non-fullerene acceptors. <i>Synthetic Metals</i> , 2015 , 203, 249-254	3.6	9
22	Erbium bisphthalocyanine nanowires by electrophoretic deposition: Morphology control and optical properties. <i>Thin Solid Films</i> , 2009 , 517, 2099-2105	2.2	8
21	A nuanced approach for assessing OPV materials for large scale applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 940-949	5.8	8
20	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Non-Fullerene Acceptors with Quinoxaline as the Core. <i>ChemSusChem</i> , 2021 , 14, 3599-3606	8.3	7
19	Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111046	6.4	7
18	Effect of substituents on the aggregate structure and photovoltaic property of violanthrone derivatives. <i>Dyes and Pigments</i> , 2012 , 95, 377-383	4.6	6
17	A novel electrochemically and thermally stable polythiophene for photovoltaic application. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 161-168	2.9	6
16	Carrier Transport in Zinc Phthalocyanine Doped with a Fluorinated Perylene Derivative: Bulk Conductivity versus Interfacial Injection. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17160-17169	3.8	6
15	High-Efficiency ITO-Free Organic Photovoltaics with Superior Flexibility and Up-Scalability.. <i>Advanced Materials</i> , 2022 , e2200044	24	6
14	Hydrothermal synthesis of Cu ₂ S nanocrystalline thin film on indium tin oxide substrate: Morphology, optical and electrical properties. <i>Thin Solid Films</i> , 2012 , 520, 5249-5253	2.2	5
13	Influence of Bridging Groups on the Photovoltaic Properties of Wide-Bandgap Poly(BDTT-alt-BDD)s. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1394-1401	9.5	5
12	A bipolar diketopyrrolopyrrole molecule end capped with thiophene-2,3-dicarboxylate used as both electron donor and acceptor for organic solar cells. <i>Synthetic Metals</i> , 2016 , 222, 211-218	3.6	4
11	Crystal growth and characterization of fluorinated perylene diimides. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 63-67	2.2	4

10	Recent development of organic electron transport materials. <i>Progress in Natural Science: Materials International</i> , 2003 , 13, 81-87	3.6	3
9	A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. <i>Macromolecules</i> , 2021 , 54, 7862-7869	5.5	3
8	Phosphate ester side-chain-modified conjugated polymer for hybrid solar cells. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	2
7	Tandem Organic Solar Cells: Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V (Adv. Mater. 44/2016). <i>Advanced Materials</i> , 2016 , 28, 9870-9870	24	2
6	Synthesis of a novel perylene diimide derivative and its charge transfer interaction with C60. <i>Science in China Series B: Chemistry</i> , 2008 , 51, 152-157		2
5	Improving the device performance of organic solar cells with immiscible solid additives. <i>Journal of Materials Chemistry C</i> ,	7.1	2
4	Potential Toxic Effects of Nano-Oxides 2012 , 347-373		1
3	Conformation tuning of simple non-fused electron acceptors via oxygen and sulfur substitutions and its effects on photovoltaics. <i>Multifunctional Materials</i> , 2021 , 4, 024003	5.2	0
2	PREPARATION AND PHOTO-INDUCED CHARGE TRANSFER OF COMPOSITES BASED ON PCPDTBT. <i>Acta Polymerica Sinica</i> , 2009 , 009, 790-795		
1	Chemical modification of AlQ3 to a potential electron acceptor for solution-processed organic solar cells. <i>Tetrahedron Letters</i> , 2016 , 57, 2797-2799	2	