

Haijun Bin

List of Publications by Year in descending order

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papers

6,354
citations

201674

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4517
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#	ARTICLE	IF	CITATIONS
1	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016, 7, 13651.	12.8	917
2	Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15011-15018.	13.7	826
3	Non-Fullerene Polymer Solar Cells Based on Alkylthio and Fluorine Substituted 2D-Conjugated Polymers Reach 9.5% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 4657-4664.	13.7	743
4	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , 2018, 9, 743.	12.8	635
5	Mapping Polymer Donors toward High Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	21.0	360
6	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , 2017, 139, 5085-5094.	13.7	303
7	Polymer Doping for High Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , 2018, 8, 1701757.	19.5	293
8	Fine Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54%. <i>Advanced Materials</i> , 2018, 30, 1706124.	21.0	253
9	High Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016, 28, 8288-8295.	21.0	247
10	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703344.	21.0	209
11	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. <i>Chemistry of Materials</i> , 2017, 29, 7543-7553.	6.7	184
12	Simultaneously Achieved High Open Circuit Voltage and Efficient Charge Generation by Fine Tuning Charge Transfer Driving Force in Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1704507.	14.9	180
13	High Efficiency All Small Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , 2018, 30, e1706361.	21.0	154
14	Effect of Alkylsilyl Side Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702324.	19.5	102
15	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017, 7, 1602215.	19.5	92
16	Medium Bandgap Polymer Donor Based on Bi(trialkylsilylthienyl)benzo[1,2-b:4,5-b']difuran for High Performance Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700746.	19.5	72
17	Indacenodithienothiophene naphthalene diimide copolymer as an acceptor for all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5810-5816.	10.3	66
18	Insertion of double bond π -bridges of D-A acceptors for high performance near-infrared polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22588-22597.	10.3	61

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19	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 846-852.	13.8	61
20	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. <i>Nature Communications</i> , 2019, 10, 398.	12.8	56
21	All-small molecule solar cells based on donor molecule optimization with highly enhanced efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15675-15683.	10.3	55
22	Efficient Electron Transport Layer Free Small-Molecule Organic Solar Cells with Superior Device Stability. <i>Advanced Materials</i> , 2021, 33, e2008429.	21.0	51
23	Development of Spiro[cyclopenta[1,2- <i>b</i> :5,4- <i>b'</i>]-dithiophene-4,9-difluorene]-Based A-D-A Small Molecules with Different Acceptor Units for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4614-4625.	8.0	49
24	Synthesis and optoelectronic properties of new D-A copolymers based on fluorinated benzothiadiazole and benzoselenadiazole. <i>Polymer Chemistry</i> , 2014, 5, 567-577.	3.9	48
25	Effect of Side-Chain Engineering of Bithienylbenzodithiophene-fluorobenzotriazole-Based Copolymers on the Thermal Stability and Photovoltaic Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2018, 51, 6028-6036.	4.8	47
26	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6874-6881.	10.3	37
27	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001589.	19.5	33
28	Effects of donor unit and bridge on photovoltaic properties of D-A copolymers based on benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene-4,8-dione acceptor unit. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1929-1940.		28
29	Effect of furan bridge on the photovoltaic performance of D-A copolymers based on bi(alkylthio-thienyl)benzodithiophene and fluorobenzotriazole. <i>Science China Chemistry</i> , 2017, 60, 537-544.	8.2	27
30	Alkoxy substituted benzodithiophene-alt-fluorobenzotriazole copolymer as donor in non-fullerene polymer solar cells. <i>Science China Chemistry</i> , 2016, 59, 1317-1322.	8.2	26
31	Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. <i>Macromolecules</i> , 2019, 52, 4776-4784.	4.8	26
32	Synthesis and characterization of arylenevinylenearylene-naphthalene diimide copolymers as acceptor in all-polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1757-1764.	2.3	19
33	Naphthalenediimide-Fused Thiophene D-A Copolymers for the Application as Acceptor in All-Polymer Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2785-2791.	3.3	18
34	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24814-24822.	10.3	16
35	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. <i>Science China Chemistry</i> , 2018, 61, 1405-1412.	8.2	16
36	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. <i>Angewandte Chemie</i> , 2020, 132, 856-862.	2.0	15

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37	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 137-144.	5.9	12
38	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene- <i>alt</i> -benzotriazole polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15426-15435.	5.5	10
39	Cellular Architecture-Based All-Polymer Flexible Thin-Film Photodetectors with High Performance and Stability in Harsh Environment. <i>Advanced Materials Technologies</i> , 2017, 2, 1700185.	5.8	7
40	Efficient Solar Cells Based on a Polymer Donor with \hat{I}^2 -Branching in Trialkylsilyl Side Chains. <i>Organic Materials</i> , 2021, 03, 134-140.	2.0	0