Beibei Qiu

List of Publications by Year
in descending order

40 papers	4,158 citations	218677 26 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	2747 citing authors

#	Article	IF	Citations
1	A low cost and high performance polymer donor material for polymer solar cells. Nature Communications, 2018, 9, 743.	12.8	635
2	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. Nature Communications, 2020, 11, 2726.	12.8	467
3	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. Journal of the American Chemical Society, 2020, 142, 1465-1474.	13.7	344
4	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. Energy and Environmental Science, 2020, 13, 2459-2466.	30.8	324
5	Fineâ€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%. Advanced Materials, 2018, 30, 1706124.	21.0	253
6	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2017, 29, 1703344.	21.0	209
7	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. Chemistry of Materials, 2017, 29, 7543-7553.	6.7	184
8	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2019, 31, e1905480.	21.0	162
9	Highly Efficient Allâ€Smallâ€Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. Advanced Materials, 2020, 32, e1908373.	21.0	162
10	A Quinoxalineâ€Based Dâ€“A Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. Advanced Materials, 2021, 33, e2100474.	21.0	155
11	Highâ€Efficiency Allâ€Smallâ€Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilylâ€Thienyl Conjugated Side Chains. Advanced Materials, 2018, 30, e1706361.	21.0	154
12	Sideâ€Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. Advanced Energy Materials, 2018, 8, 1800856.	19.5	118
13	Effect of Alkylsilyl Sideâ€Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. Advanced Energy Materials, 2018, 8, 1702324.	19.5	102
14	Ultrafast Hole Transfer and Carrier Transport Controlled by Nanoscale-Phase Morphology in Nonfullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 3226-3233.	4.6	94
15	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. Science China Chemistry, 2020, 63, 1159-1168.	8.2	92
16	A Simple Approach to Prepare Chlorinated Polymer Donors with Low-Lying HOMO Level for High Performance Polymer Solar Cells. Chemistry of Materials, 2019, 31, 6558-6567.	6.7	50
17	Effect of Side-Chain Engineering of Bithienylbenzodithiophene-alt-fluorobenzotriazole-Based Copolymers on the Thermal Stability and Photovoltaic Performance of Polymer Solar Cells. Macromolecules, 2018, 51, 6028-6036.	4.8	47
18	Dâ€“A Copolymer Donor Based on Bithienyl Benzodithiophene D-Unit and Monoalkoxy Bifluoroquinoxaline A-Unit for High-Performance Polymer Solar Cells. Chemistry of Materials, 2020, 32, 3254-3261.	6.7	43

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19	High performance as-cast semitransparent polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 4670-4677.	10.3	41
20	Green solvent-processed organic solar cells based on a low cost polymer donor and a small molecule acceptor. Journal of Materials Chemistry C, 2020, 8, 7718-7724.	5.5	40
21	Nonâ€Halogenatedâ€Solvent Processed and Additiveâ€Free Tandem Organic Solar Cell with Efficiency Reaching 16.67%. Advanced Functional Materials, 2021, 31, 2102361.	14.9	40
22	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 6874-6881.	10.3	37
23	Understanding the Effect of the Third Component PC₇₁BM on Nanoscale Morphology and Photovoltaic Properties of Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900540.	5.8	37
24	15.71% Efficiency Allâ€Smallâ€Molecule Organic Solar Cells Based on Lowâ€Cost Synthesized Donor Molecules. Advanced Functional Materials, 2022, 32, .	14.9	34
25	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. Advanced Energy Materials, 2020, 10, 2001589.	19.5	33
26	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. ACS Applied Materials & Interfaces, 2018, 10, 41318-41325.	8.0	30
27	Silicon and oxygen synergistic effects for the discovery of new high-performance nonfullerene acceptors. Nature Communications, 2020, 11, 5814.	12.8	29
28	A new non-fullerene acceptor based on the combination of a heptacyclic benzothiadiazole unit and a thiophene-fused end group achieving over 13% efficiency. Physical Chemistry Chemical Physics, 2019, 21, 26557-26563.	2.8	28
29	Fine-Tuning Miscibility and Ï€â€“Ï€ Stacking by Alkylthio Side Chains of Donor Molecules Enables High-Performance All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36033-36043.	8.0	27
30	Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. Macromolecules, 2019, 52, 4776-4784.	4.8	26
31	High-efficiency organic solar cells based on a small-molecule donor and a low-bandgap polymer acceptor with strong absorption. Journal of Materials Chemistry A, 2018, 6, 9613-9622.	10.3	25
32	Enhanced performance of ternary organic solar cells with a wide bandgap acceptor as the third component. Journal of Materials Chemistry A, 2019, 7, 27423-27431.	10.3	23
33	Realizing 8.6% Efficiency from Nonâ€Halogenated Solvent Processed Additive Free All Polymer Solar Cells with a Quinoxaline Based Polymer. Solar Rrl, 2019, 3, 1800340.	5.8	20
34	Effects of Alkoxy and Fluorine Atom Substitution of Donor Molecules on the Morphology and Photovoltaic Performance of All Small Molecule Organic Solar Cells. Frontiers in Chemistry, 2018, 6, 413.	3.6	19
35	Effects of Oxygen Position in the Alkoxy Substituents on the Photovoltaic Performance of A-DAâ€²D-A Type Pentacyclic Small Molecule Acceptors. ACS Energy Letters, 2022, 7, 2373-2381.	17.4	19
36	Effects of Alkyl Side Chains of Small Molecule Donors on Morphology and the Photovoltaic Property of All-Small-Molecule Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 54237-54245.	8.0	13

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37	Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2017-2025.	5.5	12
38	Effects of the Center Units of Smallâ€Molecule Donors on the Morphology, Photovoltaic Performance, and Device Stability of Allâ€Smallâ€Molecule Organic Solar Cells. Solar Rrl, 2021, 5, 2100515.	5.8	10
39	New-structure perylene diimide oligomers by the linkage of the bay- and imide-position for nonfullerene solar cells. Dyes and Pigments, 2019, 163, 356-362.	3.7	9
40	Photoinduced-reset and multilevel storage transistor memories based on antimony-doped tin oxide nanoparticles floating gate. Nanotechnology, 2022, 33, 025201.	2.6	8