

List of Publications by Year in descending order

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52
papers

4,467
citations

109321
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52
all docs

52
docs citations

52
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. Aggregate, 2022, 3, e58.	9.9	85
2	Processed Efficient Organic Solar Cells from Aromatic Hydrocarbon Solvent without Solvent Additive or Post-treatment: Insights into Solvent Effect on Morphology. Energy and Environmental Materials, 2022, 5, 977-985.	12.8	59
3	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. Chemical Engineering Journal, 2022, 429, 132551.	12.7	16
4	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. Matter, 2022, 5, 725-734.	10.0	145
5	Influence of Fluorine Substitution on the Photovoltaic Performance of Wide Band Gap Polymer Donors for Polymer Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 5740-5749.	8.0	13
6	Branched Alkoxy Side Chain Enables High-Performance Non-Fullerene Acceptors with High Open-Circuit Voltage and Highly Ordered Molecular Packing. Chemistry of Materials, 2022, 34, 2059-2068.	6.7	20
7	In situ and ex situ investigations on ternary strategy and co-solvent effects towards high-efficiency organic solar cells. Energy and Environmental Science, 2022, 15, 2479-2488.	30.8	84
8	Heteroheptacene-based acceptors with thieno[3,2-b]pyrrole yield high-performance polymer solar cells. National Science Review, 2022, 9, .	9.5	67
9	High-Efficiency Ternary Organic Solar Cells with a Good Figure-of-Merit Enabled by Two Low-Cost Donor Polymers. ACS Energy Letters, 2022, 7, 2547-2556.	17.4	109
10	A Pyrrole-Fused Asymmetrical Electron Acceptor for Polymer Solar Cells with Approaching 16% Efficiency. Small Structures, 2021, 2, 2000052.	12.0	14
11	Synergy strategy to the flexible alkyl and chloride side-chain engineered quinoxaline-based A conjugated polymers for efficient non-fullerene polymer solar cells. Materials Chemistry Frontiers, 2021, 5, 1906-1916.	5.9	11
12	Significantly Boosting Efficiency of Polymer Solar Cells by Employing a Nontoxic Halogen-Free Additive. ACS Applied Materials & Interfaces, 2021, 13, 11117-11124.	8.0	54
13	Boosting Highly Efficient Hydrocarbon Solvent-Processed All-Polymer-Based Organic Solar Cells by Modulating Thin-Film Morphology. ACS Applied Materials & Interfaces, 2021, 13, 34301-34307.	8.0	20
14	Understanding the Charge Transfer State and Energy Loss Trade-offs in Non-fullerene-Based Organic Solar Cells. ACS Energy Letters, 2021, 6, 3408-3416.	17.4	40
15	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having Ė-Extended Units with Broad Near-IR Absorption. ACS Energy Letters, 2021, 6, 728-738.	17.4	74
16	Alkoxy substitution on IDT-Series and Y-Series non-fullerene acceptors yielding highly efficient organic solar cells. Journal of Materials Chemistry A, 2021, 9, 7481-7490.	10.3	42
17	Boosting the Efficiency of Non-fullerene Organic Solar Cells via a Simple Cathode Modification Method. ACS Applied Materials & Interfaces, 2021, 13, 51078-51085.	8.0	19
18	ITC-2Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900377.	5.8	29

#	ARTICLE	IF	CITATIONS
19	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 909-915.	5.5	47
20	Chalcogenâ€Fused Perylene Diimidesâ€Based Nonfullerene Acceptors for Highâ€Performance Organic Solar Cells: Insight into the Effect of O, S, and Se. <i>Solar Rrl</i> , 2020, 4, 1900453.	5.8	21
21	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables Highâ€Performance Acceptor and Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002649.	19.5	103
22	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3415-3425.	17.4	73
23	Fine-tuning HOMO energy levels between PM6 and PBDB-T polymer donors via ternary copolymerization. <i>Science China Chemistry</i> , 2020, 63, 1256-1261.	8.2	38
24	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2711-2720.	17.4	188
25	A compatible polymer acceptor enables efficient and stable organic solar cells as a solid additive. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17706-17712.	10.3	51
26	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. <i>Chemistry of Materials</i> , 2020, 32, 7309-7317.	6.7	22
27	Precisely Controlling the Position of Bromine on the End Group Enables Wellâ€Regular Polymer Acceptors for Allâ€Polymer Solar Cells with Efficiencies over 15%. <i>Advanced Materials</i> , 2020, 32, e2005942.	21.0	282
28	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. <i>ACS Applied Energy Materials</i> , 2020, 3, 10814-10822.	5.1	15
29	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
30	Reducing V_{OC} loss via structure compatible and high V_{OC} nonfullerene acceptors for over 17%â€efficiency ternary organic photovoltaics. <i>EcoMat</i> , 2020, 2, e12061.	11.9	23
31	Dopamine Semiquinone Radical Doped PEDOT:PSS: Enhanced Conductivity, Work Function and Performance in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000743.	19.5	97
32	Concurrent improvement in J_{SC} and V_{OC} in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. <i>Energy and Environmental Science</i> , 2020, 13, 2115-2123.	30.8	164
33	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247.	24.0	344
34	Wide Band-gap Two-dimension Conjugated Polymer Donors with Different Amounts of Chlorine Substitution on Alkoxyphenyl Conjugated Side Chains for Non-fullerene Polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 797-805.	3.8	15
35	15.34% efficiency all-small-molecule organic solar cells with an improved fill factor enabled by a fullerene additive. <i>Energy and Environmental Science</i> , 2020, 13, 2134-2141.	30.8	218
36	Tetrabromination versus Tetrachlorination: A Molecular Terminal Engineering of Nonfluorinated Acceptors to Control Aggregation for Highly Efficient Polymer Solar Cells with Increased V_{oc} and Higher J_{sc} Simultaneously. <i>Solar Rrl</i> , 2020, 4, 2000212.	5.8	5

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37	Understanding the Effect of End Group Halogenation in Tuning Miscibility and Morphology of High-Performance Small Molecular Acceptors. <i>Solar Rrl</i> , 2020, 4, 2000250.	5.8	63
38	Improved organic solar cell efficiency based on the regulation of an alkyl chain on chlorinated non-fullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2428-2434.	5.9	27
39	Synergy of Liquid-Crystalline Small-Molecule and Polymeric Donors Delivers Uncommon Morphology Evolution and 16.6% Efficiency Organic Photovoltaics. <i>Advanced Science</i> , 2020, 7, 2000149.	11.2	67
40	Fluorinated pyrazine-based π -A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7083-7089.	10.3	17
41	Over 15% Efficiency Polymer Solar Cells Enabled by Conformation Tuning of Newly Designed Asymmetric Small-Molecule Acceptors. <i>Advanced Functional Materials</i> , 2020, 30, 2000383.	14.9	55
42	Efficient modulation of end groups for the asymmetric small molecule acceptors enabling organic solar cells with over 15% efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5927-5935.	10.3	39
43	Conformation-Tuning Effect of Asymmetric Small Molecule Acceptors on Molecular Packing, Interaction, and Photovoltaic Performance. <i>Small</i> , 2020, 16, e2001942.	10.0	49
44	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. <i>Science China Chemistry</i> , 2020, 63, 325-330.	8.2	292
45	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. <i>Joule</i> , 2020, 4, 658-672.	24.0	279
46	Dithieno[3,2- <i>b</i> :2',3'- <i>b'</i>]pyrrole-Fused Asymmetrical Electron Acceptors: A Study into the Effects of Nitrogen-Functionalization on Reducing Nonradiative Recombination Loss and Dipole Moment on Morphology. <i>Advanced Science</i> , 2020, 7, 1902657.	11.2	51
47	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2000456.	14.9	164
48	10.13% Efficiency All-Polymer Solar Cells Enabled by Improving the Optical Absorption of Polymer Acceptors. <i>Solar Rrl</i> , 2020, 4, 2000142.	5.8	45
49	A monothiophene unit incorporating both fluoro and ester substitution enabling high-performance donor polymers for non-fullerene solar cells with 16.4% efficiency. <i>Energy and Environmental Science</i> , 2019, 12, 3328-3337.	30.8	337
50	Significantly improving the performance of polymer solar cells by the isomeric ending-group based small molecular acceptors: Insight into the isomerization. <i>Nano Energy</i> , 2019, 66, 104146.	16.0	47
51	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. <i>Energy and Environmental Science</i> , 2019, 12, 2529-2536.	30.8	213
52	Unconjugated Side-Chain Engineering Enables Small Molecular Acceptors for Highly Efficient Non-Fullerene Organic Solar Cells: Insights into the Fine-Tuning of Acceptor Properties and Micromorphology. <i>Advanced Functional Materials</i> , 2019, 29, 1902155.	14.9	105