

Cunbin An

List of Publications by Year in descending order

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236925

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#	ARTICLE	IF	CITATIONS
1	Single-junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020, 32, e1908205.	21.0	1,407
2	Organic photovoltaic cell with 17% efficiency and superior processability. <i>National Science Review</i> , 2020, 7, 1239-1246.	9.5	443
3	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm ² Organic Solar Cells. <i>Joule</i> , 2019, 3, 227-239.	24.0	193
4	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020, 63, 1142-1150.	6.3	140
5	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. <i>Advanced Energy Materials</i> , 2021, 11, 2101705.	19.5	125
6	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. <i>Energy and Environmental Science</i> , 2021, 14, 5903-5910.	30.8	116
7	Tailoring and Modifying an Organic Electron Acceptor toward the Cathode Interlayer for Highly Efficient Organic Solar Cells. <i>Advanced Materials</i> , 2020, 32, e1906557.	21.0	109
8	Recent progress in wide bandgap conjugated polymer donors for high-performance nonfullerene organic photovoltaics. <i>Chemical Communications</i> , 2020, 56, 4750-4760.	4.1	94
9	Cyclopentadithiophene-Benzothiadiazole Donor-Acceptor Polymers as Prototypical Semiconductors for High-Performance Field-Effect Transistors. <i>Accounts of Chemical Research</i> , 2018, 51, 1196-1205.	15.6	93
10	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12911-12915.	13.8	87
11	A ternary organic solar cell with 300 nm thick active layer shows over 14% efficiency. <i>Science China Chemistry</i> , 2020, 63, 21-27.	8.2	72
12	A High-Performance Nonfused Wide-Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2022, 34, e2108090.	21.0	71
13	Phenanthrene Condensed Thiadiazoloquinoxaline Donor-Acceptor Polymer for Phototransistor Applications. <i>Chemistry of Materials</i> , 2015, 27, 2218-2223.	6.7	67
14	Controlling the Surface Organization of Conjugated Donor-Acceptor Polymers by their Aggregation in Solution. <i>Advanced Materials</i> , 2016, 28, 9430-9438.	21.0	62
15	Impact of Interfacial Microstructure on Charge Carrier Transport in Solution-Processed Conjugated Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 2245-2252.	21.0	58
16	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2022, 34, e2105803.	21.0	53
17	Thiadiazoloquinoxaline-Based Low-Bandgap Conjugated Polymers as Ambipolar Semiconductors for Organic Field Effect Transistors. <i>Chemistry of Materials</i> , 2014, 26, 5923-5929.	6.7	44
18	Three-Dimensional Pyrene-Fused <i>N</i> -Heteroacenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 5130-5134.	13.7	44

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19	Significant influence of doping effect on photovoltaic performance of efficient fullerene-free polymer solar cells. <i>Journal of Energy Chemistry</i> , 2020, 43, 40-46.	12.9	43
20	Benzodithiophene- <i>Thiadiazoloquinoxaline</i> as an Acceptor for Ambipolar Copolymers with Deep LUMO Level and Distinct Linkage Pattern. <i>Macromolecules</i> , 2014, 47, 979-986.	4.8	41
21	Layered <i>Thiadiazoloquinoxaline</i> -Containing Long Pyrene-Fused <i>N</i> -Heteroacenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12375-12379.	13.8	39
22	Alignment of Organic Semiconductor Microstripes by Two-Phase Dip-Coating. <i>Small</i> , 2014, 10, 1926-1931.	10.0	37
23	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , 2020, 11, 1629-1636.	3.9	30
24	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , 2019, 62, 370-377.	8.2	29
25	In situ Formation of NO _x and Br Anion for Aerobic Oxidation of Benzylic Alcohols without Transition Metal. <i>Synlett</i> , 2010, 2010, 437-440.	1.8	27
26	Organic photovoltaic cells for low light applications offering new scope and orientation. <i>Organic Electronics</i> , 2020, 85, 105798.	2.6	26
27	<i>Thiadiazoloquinoxaline</i> -Fused <i>Naphthalenediimides</i> for n-Type Organic Field-Effect Transistors (OFETs). <i>Organic Letters</i> , 2017, 19, 6300-6303.	4.6	25
28	Condensed Derivatives of <i>Thiadiazoloquinoxaline</i> as Strong Acceptors. <i>Crystal Growth and Design</i> , 2015, 15, 1934-1938.	3.0	23
29	Asymmetric Wide-Bandgap Polymers Simultaneously Improve the Open-Circuit Voltage and Short-Circuit Current for Organic Photovoltaics. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800906.	3.9	21
30	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13653-13660.	10.3	21
31	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , 2021, 59, 30-37.	12.9	20
32	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 1200-1207.	8.2	20
33	<i>Benzo[1,2-b:4,5-b']dithiophene</i> -Based Conjugated Polymers for Highly Efficient Organic Photovoltaics. <i>Accounts of Materials Research</i> , 2022, 3, 540-551.	11.7	19
34	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7691-7698.	3.1	18
35	Highly Ordered <i>Phenanthroline</i> -Fused <i>Azaacene</i> . <i>Crystal Growth and Design</i> , 2015, 15, 5240-5245.	3.0	17
36	<i>Dithieno[2,3-d;2,3-d']benzo[1,2-b;4,5-b']dithiophene</i> based organic sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 54130-54133.	3.6	16

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37	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2301-2306.	5.5	15
38	Dithieno[2,3-d;2,3-d]benzo[2,1-b;3,4-b]dithiophene: a novel building-block for a planar copolymer. <i>Polymer Chemistry</i> , 2016, 7, 1545-1548.	3.9	13
39	Investigation of the structure-property relationship of thiadiazoloquinoxaline-based copolymer semiconductors via molecular engineering. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3876-3881.	5.5	11
40	Tuning the optoelectronic properties of dual-acceptor based low-bandgap ambipolar polymers by changing the thiophene-bridge length. <i>Polymer Chemistry</i> , 2015, 6, 6238-6245.	3.9	11
41	Layered Thiadiazoloquinoxaline-Containing Long Pyrene-Fused Heteroacenes. <i>Angewandte Chemie</i> , 2018, 130, 12555-12559.	2.0	11
42	Increased conjugated backbone twisting to improve carbonylated-functionalized polymer photovoltaic performance. <i>Organic Chemistry Frontiers</i> , 2020, 7, 261-266.	4.5	10
43	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14706-14712.	10.3	10
44	Effect of linear side-chain length on the photovoltaic performance of benzodithiophene-dicarboxylic ester terthiophene polymers. <i>New Journal of Chemistry</i> , 2019, 43, 12950-12956.	2.8	9
45	Synthesis of a quinoidal dithieno[2,3-d;2,3-d]benzo[2,1-b;3,4-b]dithiophene based open-shell singlet biradicaloid. <i>Organic Chemistry Frontiers</i> , 2017, 4, 18-21.	4.5	8
46	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie</i> , 2018, 130, 13093-13097.	2.0	8
47	Strengthening the acceptor properties of thiadiazoloquinoxalines via planarization. <i>New Journal of Chemistry</i> , 2015, 39, 6765-6770.	2.8	7
48	A Carbonylated Terthiophene-Based Twisted Polymer for Efficient Ternary Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900246.	3.9	7
49	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24184-24191.	8.0	7
50	Effect of fluorination of naphthalene diimide-benzothiadiazole copolymers on ambipolar behavior in field-effect transistors. <i>RSC Advances</i> , 2018, 8, 16464-16469.	3.6	6
51	Effect of alkyl side chains of twisted conjugated polymer donors on photovoltaic performance. <i>Polymer</i> , 2021, 218, 123475.	3.8	6
52	Sulfur-rich benzodithieno[3,2-b]thiophene-cored hole transporting materials for long-time stability of perovskite solar cells. <i>Dyes and Pigments</i> , 2021, 193, 109506.	3.7	6
53	A Sulfhydryl Azobenzene-Modified Polyaniline/Silver Electrode and Its Photoswitching Electrochemical Performance. <i>ACS Omega</i> , 2021, 6, 11519-11528.	3.5	5
54	Molecular Ordering of Dithieno[2,3-d;2,3-d]benzo[2,1-b;3,4-b]dithiophenes for Field-Effect Transistors. <i>ACS Omega</i> , 2018, 3, 6513-6522.	3.5	3

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55	Benchmarking of density functionals for the description of optical properties of newly synthesized π -conjugated TADF blue emitters. Chemistry - A European Journal, 2022, , .	3.3	3