Cunbin An

List of Publications by Year
in descending order

55 papers	3,906 citations	236612 25 h-index	155451 55 g-index
56 all docs	56 docs citations	56 times ranked	3417 citing authors

#	Article	IF	Citations
1	Singleâ€Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. Advanced Materials, 2020, 32, e1908205.	11.1	1,407
2	Organic photovoltaic cell with 17% efficiency and superior processability. National Science Review, 2020, 7, 1239-1246.	4.6	443
3	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm2 Organic Solar Cells. Joule, 2019, 3, 227-239.	11.7	193
4	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. Science China Materials, 2020, 63, 1142-1150.	3.5	140
5	A Thiadiazoleâ€Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. Advanced Energy Materials, 2021, 11, 2101705.	10.2	125
6	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910.	15.6	116
7	Tailoring and Modifying an Organic Electron Acceptor toward the Cathode Interlayer for Highly Efficient Organic Solar Cells. Advanced Materials, 2020, 32, e1906557.	11.1	109
8	Recent progress in wide bandgap conjugated polymer donors for high-performance nonfullerene organic photovoltaics. Chemical Communications, 2020, 56, 4750-4760.	2.2	94
9	Cyclopentadithiopheneâ€“Benzothiadiazole Donorâ€“Acceptor Polymers as Prototypical Semiconductors for High-Performance Field-Effect Transistors. Accounts of Chemical Research, 2018, 51, 1196-1205.	7.6	93
10	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. Angewandte Chemie - International Edition, 2018, 57, 12911-12915.	7.2	87
11	A ternary organic solar cell with 300 nm thick active layer shows over 14% efficiency. Science China Chemistry, 2020, 63, 21-27.	4.2	72
12	A Highâ€Performance Nonfused Wideâ€Bandgap Acceptor for Versatile Photovoltaic Applications. Advanced Materials, 2022, 34, e2108090.	11.1	71
13	Phenanthrene Condensed Thiadiazoloquinoxaline Donorâ€“Acceptor Polymer for Phototransistor Applications. Chemistry of Materials, 2015, 27, 2218-2223.	3.2	67
14	Controlling the Surface Organization of Conjugated Donorâ€“Acceptor Polymers by their Aggregation in Solution. Advanced Materials, 2016, 28, 9430-9438.	11.1	62
15	Impact of Interfacial Microstructure on Charge Carrier Transport in Solutionâ€Processed Conjugated Polymer Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 2245-2252.	11.1	58
16	A Universal Nonhalogenated Polymer Donor for Highâ€Performance Organic Photovoltaic Cells. Advanced Materials, 2022, 34, e2105803.	11.1	53
17	Thiadizoloquinoxaline-Based Low-Bandgap Conjugated Polymers as Ambipolar Semiconductors for Organic Field Effect Transistors. Chemistry of Materials, 2014, 26, 5923-5929.	3.2	44
18	Three-Dimensional Pyrene-Fused<i>N</i>-Heteroacenes. Journal of the American Chemical Society, 2019, 141, 5130-5134.	6.6	44

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19	Significant influence of doping effect on photovoltaic performance of efficient fullerene-free polymer solar cells. Journal of Energy Chemistry, 2020, 43, 40-46.	7.1	43
20	Benzodithiopheneâ€“Thiadiazoloquinoxaline as an Acceptor for Ambipolar Copolymers with Deep LUMO Level and Distinct Linkage Pattern. Macromolecules, 2014, 47, 979-986.	2.2	41
21	Layered Thiadiazoloquinoxalineâ€Containing Long Pyreneâ€Fused Nâ€Heteroacenes. Angewandte Chemie - International Edition, 2018, 57, 12375-12379.	7.2	39
22	Alignment of Organic Semiconductor Microstripes by Twoâ€Phase Dipâ€Coating. Small, 2014, 10, 1926-1931.	5.2	37
23	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. Polymer Chemistry, 2020, 11, 1629-1636.	1.9	30
24	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. Science China Chemistry, 2019, 62, 370-377.	4.2	29
25	In situ Formation of NOx and Br Anion for Aerobic Oxidation of Benzylic Alcohols without Transition Metal. Synlett, 2010, 2010, 437-440.	1.0	27
26	Organic photovoltaic cells for low light applications offering new scope and orientation. Organic Electronics, 2020, 85, 105798.	1.4	26
27	Thiadiazoloquinoxaline-Fused Naphthalenediimides for n-Type Organic Field-Effect Transistors (OFETs). Organic Letters, 2017, 19, 6300-6303.	2.4	25
28	Condensed Derivatives of Thiadiazoloquinoxaline as Strong Acceptors. Crystal Growth and Design, 2015, 15, 1934-1938.	1.4	23
29	Asymmetric Wideâ€Bandgap Polymers Simultaneously Improve the Openâ€Circuit Voltage and Shortâ€Circuit Current for Organic Photovoltaics. Macromolecular Rapid Communications, 2019, 40, e1800906.	2.0	21
30	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. Journal of Materials Chemistry A, 2021, 9, 13653-13660.	5.2	21
31	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. Journal of Energy Chemistry, 2021, 59, 30-37.	7.1	20
32	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. Science China Chemistry, 2021, 64, 1200-1207.	4.2	20
33	Benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene-Based Conjugated Polymers for Highly Efficient Organic Photovoltaics. Accounts of Materials Research, 2022, 3, 540-551.	5.9	19
34	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. Journal of Physical Chemistry C, 2020, 124, 7691-7698.	1.5	18
35	Highly Ordered Phenanthroline-Fused Azaacene. Crystal Growth and Design, 2015, 15, 5240-5245.	1.4	17
36	Dithieno[2,3-d;2â€²,3â€²-dâ€²]benzo[1,2-b;4,5-bâ€²]dithiophene based organic sensitizers for dye-sensitized solar cells. RSC Advances, 2014, 4, 54130-54133.	1.7	16

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37	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. Journal of Materials Chemistry C, 2020, 8, 2301-2306.	2.7	15
38	Dithieno[2,3-d;2â€²,3â€²-d]benzo[2,1-b;3,4-bâ€˜]dithiophene: a novel building-block for a planar copolymer. Polymer Chemistry, 2016, 7, 1545-1548.	1.9	13
39	Investigation of the structureâ€“property relationship of thiadiazoloquinoxaline-based copolymer semiconductors via molecular engineering. Journal of Materials Chemistry C, 2015, 3, 3876-3881.	2.7	11
40	Tuning the optoelectronic properties of dual-acceptor based low-bandgap ambipolar polymers by changing the thiophene-bridge length. Polymer Chemistry, 2015, 6, 6238-6245.	1.9	11
41	Layered Thiadiazoloquinoxalineâ€Containing Long Pyreneâ€Fused Nâ€Heteroacenes. Angewandte Chemie, 2018, 130, 12555-12559.	1.6	11
42	Increased conjugated backbone twisting to improve carbonylated-functionalized polymer photovoltaic performance. Organic Chemistry Frontiers, 2020, 7, 261-266.	2.3	10
43	Enhanced photovoltaic effect from naphtho[2,3-<i>c</i>]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. Journal of Materials Chemistry A, 2020, 8, 14706-14712.	5.2	10
44	Effect of linear side-chain length on the photovoltaic performance of benzodithiophene-<i>alt</i>-dicarboxylic ester terthiophene polymers. New Journal of Chemistry, 2019, 43, 12950-12956.	1.4	9
45	Synthesis of a quinoidal dithieno[2,3-d;2â€²,3â€²-d]benzo[2,1-b;3,4-bâ€²]-dithiophene based open-shell singlet biradicaloid. Organic Chemistry Frontiers, 2017, 4, 18-21.	2.3	8
46	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. Angewandte Chemie, 2018, 130, 13093-13097.	1.6	8
47	Strengthening the acceptor properties of thiadiazoloquinoxalines via planarization. New Journal of Chemistry, 2015, 39, 6765-6770.	1.4	7
48	A Carbonylated Terthiopheneâ€“Based Twisted Polymer for Efficient Ternary Polymer Solar Cells. Macromolecular Rapid Communications, 2019, 40, e1900246.	2.0	7
49	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. ACS Applied Materials & Interfaces, 2020, 12, 24184-24191.	4.0	7
50	Effect of fluorination of naphthalene diimideâ€“benzothiadiazole copolymers on ambipolar behavior in field-effect transistors. RSC Advances, 2018, 8, 16464-16469.	1.7	6
51	Effect of alkyl side chains of twisted conjugated polymer donors on photovoltaic performance. Polymer, 2021, 218, 123475.	1.8	6
52	Sulfur-rich benzodithieno[3,2-b]thiophene-cored hole transporting materials for long-time stability of perovskite solar cells. Dyes and Pigments, 2021, 193, 109506.	2.0	6
53	A Sulfhydryl Azobenzene-Modified Polyaniline/Silver Electrode and Its Photoswitching Electrochemical Performance. ACS Omega, 2021, 6, 11519-11528.	1.6	5
54	Molecular Ordering of Dithieno[2,3-<i>d</i>;2â€²,3â€²-<i>d</i>]benzo[2,1-<i>b</i>:3,4-<i>b</i>â€²]dithiophenes for Field-Effect Transistors. ACS Omega, 2018, 3, 6513-6522.	1.6	3

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55	Benchmarking of density functionals for the description of optical properties of newly synthesized Ï€â€conjugated TADF blue emitters. Chemistry - A European Journal, 2022, , .	1.7	3