Cuihong Li

List of Publications by Year
in descending order

67 papers	2,912 citations	186265 28 h-index	168389 53 g-index
67 all docs	67 docs citations	67 times ranked	3295 citing authors

#	Article	IF	Citations
1	A Planar Copolymer for High Efficiency Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 14612-14613.	13.7	407
2	Noncovalently fused-ring electron acceptors with near-infrared absorption for high-performance organic solar cells. Nature Communications, 2019, 10, 3038.	12.8	297
3	Reversible Switching Emissions of Tetraphenylethene Derivatives among Multiple Colors with Solvent Vapor, Mechanical, and Thermal Stimuli. Journal of Physical Chemistry C, 2012, 116, 21967-21972.	3.1	179
4	Reversible Luminescence Switching of an Organic Solid: Controllable Onâ€“Off Persistent Room Temperature Phosphorescence and Stimulated Multiple Fluorescence Conversion. Advanced Optical Materials, 2015, 3, 1184-1190.	7.3	173
5	Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. Chemical Communications, 2012, 48, 425-427.	4.1	122
6	Highly Efficient Planar Perovskite Solar Cells Via Interfacial Modification with Fullerene Derivatives. Small, 2016, 12, 1098-1104.	10.0	107
7	9-Alkylidene-9<i>H</i>-Fluorene-Containing Polymer for High-Efficiency Polymer Solar Cells. Macromolecules, 2011, 44, 7617-7624.	4.8	99
8	1,8-Naphthalimide-Based Planar Small Molecular Acceptor for Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 5475-5483.	8.0	80
9	4-Alkyl-3,5-difluorophenyl-Substituted Benzodithiophene-Based Wide Band Gap Polymers for High-Efficiency Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 3686-3692.	8.0	75
10	Switching the emission of tetrakis(4-methoxyphenyl)ethylene among three colors in the solid state. New Journal of Chemistry, 2013, 37, 1696.	2.8	59
11	Phenylethyne-Bridged Dyes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 13391-13397.	3.1	58
12	Triindole-cored star-shaped molecules for organic solar cells. Journal of Materials Chemistry A, 2013, 1, 7657.	10.3	53
13	Benzothiadiazole based conjugated polymers for high performance polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 20195-20200.	10.3	52
14	A New Class of Conjugated Polymers Having Porphyrin, Poly(p-phenylenevinylene), and Fullerene Units for Efficient Electron Transfer. Macromolecules, 2006, 39, 5319-5325.	4.8	49
15	A nonfullerene acceptor for wide band gap polymer based organic solar cells. Chemical Communications, 2016, 52, 469-472.	4.1	48
16	Conjugated polymers with broad absorption: Synthesis and application in polymer solar cells. Journal of Polymer Science Part A, 2010, 48, 2571-2578.	2.3	46
17	1,8-Naphthalimide-based nonfullerene acceptors for wide optical band gap polymer solar cells with an ultrathin active layer thickness of 35 nm. Journal of Materials Chemistry C, 2016, 4, 5656-5663.	5.5	42
18	A 1,8-naphthalimide based small molecular acceptor for polymer solar cells with high open circuit voltage. Journal of Materials Chemistry C, 2015, 3, 6979-6985.	5.5	41

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19	Unusual Fluorescence Enhancement of a Novel Carbazolyldiacetylene Bound to Gold Nanoparticles. Langmuir, 2007, 23, 6754-6760.	3.5	40
20	Siloleâ€containing polymers for highâ€efficiency polymer solar cells. Journal of Polymer Science Part A, 2011, 49, 4267-4274.	2.3	40
21	Synthesis of a novel poly(<i>para</i>â€phenylene ethynylene) for highly selective and sensitive sensing mercury (II) ions. Journal of Polymer Science Part A, 2008, 46, 1998-2007.	2.3	38
22	Side Chain Influence on the Morphology and Photovoltaic Performance of 5-Fluoro-6-alkyloxybenzothiadiazole and Benzodithiophene Based Conjugated Polymers. ACS Applied Materials & Interfaces, 2015, 7, 10710-10717.	8.0	38
23	Perylene diimide based star-shaped small molecular acceptors for high efficiency organic solar cells. Journal of Materials Chemistry C, 2019, 7, 819-825.	5.5	37
24	Spirobifluorene-Based Conjugated Polymers for Polymer Solar Cells with High Open-Circuit Voltage. Macromolecules, 2012, 45, 3017-3022.	4.8	34
25	Switching emissions of two tetraphenylethene derivatives with solvent vapor, mechanical, and thermal stimuli. Science Bulletin, 2013, 58, 2723-2727.	1.7	34
26	Conjugated polymers with 2,7-linked 3,6-difluorocarbazole as donor unit for high efficiency polymer solar cells. Polymer Chemistry, 2013, 4, 2773.	3.9	31
27	9-Arylidene-9<i>H</i>-Fluorene-Containing Polymers for High Efficiency Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 1601-1607.	8.0	31
28	Novel isoindigo-based conjugated polymers for solar cells and field effect transistors. Polymer Chemistry, 2013, 4, 3563.	3.9	30
29	A propeller-shaped perylene diimide hexamer as a nonfullerene acceptor for organic solar cells. Journal of Materials Chemistry C, 2018, 6, 9336-9340.	5.5	28
30	5,6-Difluorobenzothiadiazole and silafluorene based conjugated polymers for organic photovoltaic cells. Journal of Materials Chemistry C, 2014, 2, 5116-5123.	5.5	27
31	The Process of Functional Conjugated Organic Polymers Derived from Tripleâ€Bond Building Blocks. Macromolecular Chemistry and Physics, 2008, 209, 1541-1552.	2.2	26
32	Hyperbranched polymer as an acceptor for polymer solar cells. Chemical Communications, 2017, 53, 537-540.	4.1	26
33	Elimination of the Jâ€“V hysteresis of planar perovskite solar cells by interfacial modification with a thermo-cleavable fullerene derivative. Journal of Materials Chemistry A, 2016, 4, 17649-17654.	10.3	24
34	Naphthalene core-based noncovalently fused-ring electron acceptors: effects of linkage positions on photovoltaic performances. Journal of Materials Chemistry C, 2019, 7, 15141-15147.	5.5	24
35	Efficient Organic Solar Cells Based on Non-Fullerene Acceptors with Two Planar Thiophene-Fused Perylene Diimide Units. ACS Applied Materials & Interfaces, 2020, 12, 10746-10754.	8.0	23
36	Dihydropyreno[1,2-b:6,7-bâ€²]dithiophene based electron acceptors for high efficiency as-cast organic solar cells. Journal of Materials Chemistry A, 2019, 7, 5943-5948.	10.3	21

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37	Influence of polymer side chains on the photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry C, 2017, 5, 937-942.	5.5	19
38	Designing a High-Performance A-D-A Fused-Ring Electron Acceptor <i>via</i> Noncovalently Conformational Locking and Tailoring Its End Groups. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 355-360.	4.9	19
39	Synthesis of thiophene-containing conjugated polymers from 2,5-thiophenebis(boronic ester)s by Suzuki polycondensation. Polymer Chemistry, 2013, 4, 895.	3.9	18
40	Anthraceneâ€Containing Wideâ€Bandâ€Gap Conjugated Polymers for Highâ€Openâ€Circuitâ€Voltage Polymer Solar Cells. Macromolecular Rapid Communications, 2013, 34, 1163-1168.	3.9	18
41	Efficient Ternary Organic Solar Cells with a New Electron Acceptor Based on 3,4-(2,2-Dihexylpropylenedioxy)thiophene. ACS Applied Materials & Interfaces, 2020, 12, 40590-40598.	8.0	18
42	Synthesis and photovoltaic behaviors of benzothiadiazole- and triphenylamine-based alternating copolymers. Polymer, 2012, 53, 324-332.	3.8	17
43	The side chain effect on difluoro-substituted dibenzo[a,c]phenazine based conjugated polymers as donor materials for high efficiency polymer solar cells. Polymer Chemistry, 2015, 6, 1613-1618.	3.9	17
44	Ethynyleneâ€containing donorâ€"acceptor alternating conjugated polymers: Synthesis and photovoltaic properties. Journal of Polymer Science Part A, 2013, 51, 383-393.	2.3	16
45	Vinylene- and ethynylene-bridged perylene diimide dimers as nonfullerene acceptors for polymer solar cells. Dyes and Pigments, 2017, 146, 143-150.	3.7	16
46	Molecular modeling of poly(p-phenylenevinylene): Synthesis and photophysical properties of oligomers. Journal of Polymer Science Part A, 2007, 45, 911-924.	2.3	15
47	The design of highly efficient polymer solar cells with outstanding short-circuit current density based on small band gap electron acceptor. Dyes and Pigments, 2018, 150, 363-369.	3.7	15
48	Enhancing the Performance of Polymer Solar Cells by Using Donor Polymers Carrying Discretely Distributed Side Chains. ACS Applied Materials & Interfaces, 2017, 9, 24020-24026.	8.0	14
49	Simple dithienosilole-based nonfused nonfullerene acceptor for efficient organic photovoltaics. Dyes and Pigments, 2021, 184, 108789.	3.7	14
50	Insights into out-of-plane side chains effects on optoelectronic and photovoltaic properties of simple non-fused electron acceptors. Organic Electronics, 2021, 89, 106029.	2.6	14
51	Polythiophenes with Carbazole Side Chains: Design, Synthesis and Their Application in Organic Solar Cells. Macromolecular Chemistry and Physics, 2010, 211, 948-955.	2.2	13
52	Side chain effect of nonfullerene acceptors on the photovoltaic performance of wide band gap polymer solar cells. Synthetic Metals, 2016, 220, 578-584.	3.9	13
53	Finely designed medium-band-gap polymer donor with judiciously selecting chalcogen atom for high efficiency polymer solar cell. Dyes and Pigments, 2017, 141, 342-347.	3.7	13
54	Performance Enhancement of Polymer Solar Cells by Using Two Polymer Donors with Complementary Absorption Spectra. Macromolecular Rapid Communications, 2015, 36, 1348-1353.	3.9	12

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55	Designing High-Performance Nonfused Ring Electron Acceptors <i>via</i> Synergistically Adjusting Side Chains and Electron-Withdrawing End-Groups. ACS Applied Materials & Interfaces, 2022, 14, 21287-21294.	8.0	12
56	Stabilization and Large Nonlinearity of Gold Nanoparticles Functionalized with a Ï€â€Conjugated Polymer. ChemPhysChem, 2009, 10, 2058-2065.	2.1	11
57	Engineering the band gap and energy level of conjugated polymers using a second acceptor unit. Polymer Chemistry, 2014, 5, 5037-5045.	3.9	11
58	Efficient polymer solar cells processed by environmentally friendly halogen-free solvents. RSC Advances, 2016, 6, 39074-39079.	3.6	11
59	Extended Ï€-conjugated perylene diimide dimers toward efficient organic solar cells. Dyes and Pigments, 2020, 183, 108736.	3.7	9
60	End-group modification of non-fullerene acceptors enables efficient organic solar cells. Journal of Materials Chemistry C, 2022, 10, 10389-10395.	5.5	8
61	Induced helix formation and stabilization of a meta-linked polymer containing pyridine units. Journal of Polymer Science Part A, 2007, 45, 1403-1412.	2.3	7
62	Bis(carboxylate) substituted benzodithiophene based wide-bandgap polymers for high performance nonfullerene polymer solar cells. Dyes and Pigments, 2019, 162, 120-125.	3.7	7
63	Polymer Photovoltaic Cells Based on Polymethacrylate Bearing Semiconducting Side Chains. Macromolecular Rapid Communications, 2012, 33, 2097-2102.	3.9	5
64	Effect of bifurcation point of alkoxy side chains on photovoltaic performance of 5-alkoxy-6-fluorobenzo[c][1,2,5]thiadiazole-based conjugated polymers. Solar Energy Materials and Solar Cells, 2016, 154, 42-48.	6.2	5
65	The effect of meta-substituted or para-substituted phenyl as side chains on the performance of polymer solar cells. Synthetic Metals, 2016, 220, 402-409.	3.9	3
66	Data on the detail information of influence of substrate temperature on the film morphology and photovoltaic performance of non-fullerene organic solar cells. Data in Brief, 2017, 14, 531-537.	1.0	3
67	Malachite Green Derivativeâ€"Functionalized Single Nanochannel: Lightâ€andâ€pH Dualâ€Driven Ionic Gating (Adv. Mater. 46/2012). Advanced Materials, 2012, 24, 6192-6192.	21.0	0