Junfeng Tong

List of Publications by Year
in descending order

49 papers	1,390 citations	304602 22 h-index	345118 36 g-index
49 all docs	49 docs citations	49 times ranked	1025 citing authors

#	Article	IF	Citations
1	Ultrafast Kinetics of Chlorinated Polymer Donors: A Faster Excitonic Dissociation Path. ACS Applied Materials & Interfaces, 2022, 14, 6945-6957.	4.0	18
2	Two Compatible Acceptors as an Alloy Model with a Halogen-Free Solvent for Efficient Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 9386-9397.	4.0	46
3	A New Alcoholâ€Soluble Polymer PFNâ€D as Cathode Interlayer to Optimize Performance of Conventional Polymer Solar Cells by Increasing Electron Mobility. Energy Technology, 2022, 10, .	1.8	30
4	p-nitrophenol-terminated alkyl side chain substituted polymer as high dielectric constant polymer additive enables efficient organic solar cells. Optical Materials, 2022, 127, 112347.	1.7	1
5	Utilizing non-conjugated small-molecular tetrasodium iminodisuccinateas electron transport layer enabled improving efficiency of organic solar cells. Optical Materials, 2022, 129, 112520.	1.7	32
6	Non-Halogenated Polymer Donor-Based Organic Solar Cells with a Nearly 15% Efficiency Enabled by a Classic Ternary Strategy. ACS Applied Energy Materials, 2021, 4, 1774-1783.	2.5	47
7	Significantly Boosting Efficiency of Polymer Solar Cells by Employing a Nontoxic Halogen-Free Additive. ACS Applied Materials & Interfaces, 2021, 13, 11117-11124.	4.0	54
8	Twisted Alkylthiothienâ€2â€yl Flanks and Extended Conjugation Length Synergistically Enhanced Photovoltaic Performance by Boosting Dielectric Constant and Carriers Kinetic Characteristics. Macromolecular Chemistry and Physics, 2021, 222, 2100030.	1.1	5
9	Enhance the efficiency of polymer solar cells through regulating phase segregation and improving charge transport via non-toxic halogen-free additive. Solar Energy, 2021, 218, 375-382.	2.9	26
10	Improved Photovoltaic Performance of Polymer Solar Cells via a Volatile and Nonhalogen Additive to Optimize Crystallinity. ACS Applied Energy Materials, 2021, 4, 7129-7137.	2.5	17
11	Ternary solar cells via ternary polymer donors and third component PC71BM to optimize morphology with 13.15% efficiency. Solar Energy, 2021, 222, 18-26.	2.9	37
12	Enhancement Efficiency of Organic Photovoltaic Cells via Green Solvents and Nontoxic Halogenâ€Free Additives. Advanced Sustainable Systems, 2021, 5, 2100235.	2.7	10
13	Photodynamic Investigation on the Synergistic Effects of Aromatic Side Chains with Alkylthio Substituents in Nonfullerene Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 9913-9922.	2.5	1
14	Impact of fluorination on photovoltaic performance in high thermo- and photo-stability perylene diimide-based nonfullerene small molecular acceptors. Optical Materials, 2021, 121, 111593.	1.7	7
15	Construction of effective organic solar cell using phenanthroline derivatives as cathode interface layer. Optical Materials, 2021, 122, 111647.	1.7	10
16	Impact of alkyl side chain on the photostability and optoelectronic properties of indacenodithieno[3,2â€• b]thiopheneâ€•alt â€naphtho[1,2â€•c :5,6â€•c â€²]bis[1,2,5]thiadiazole medium bandgap copolymers. Polymer International, 2020, 69, 192-205.	1.6	11
17	Non-toxic green food additive enables efficient polymer solar cells through adjusting the phase composition distribution and boosting charge transport. Journal of Materials Chemistry C, 2020, 8, 2483-2490.	2.7	51
18	Efficient inverted organic solar cells with a thin natural biomaterial l-Arginine as electron transport layer. Solar Energy, 2020, 196, 168-176.	2.9	51

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19	Fluorination effect of benzo[c][1,2,5]thiadiazole-alt-oligothiophene-based copolymers involving all straight flexible side chain in photovoltaic application. Optical Materials, 2020, 108, 110321.	1.7	4
20	Simultaneously enhancing the dielectric constant, photo-response and deepening HOMO levels of benzo[1,2-b;4,5-b']dithiophene derivatives-based conjugated polymers. Dyes and Pigments, 2020, 177, 108263.	2.0	5
21	Enhanced organic photovoltaic performance through promoting crystallinity of photoactive layer and conductivity of hole-transporting layer by V2O5 doped PEDOT:PSS hole-transporting layers. Solar Energy, 2020, 211, 1102-1109.	2.9	40
22	Elevated Photovoltaic Performance in Medium Bandgap Copolymers Composed of Indacenodi-thieno[3,2-b]thiophene and Benzothiadiazole Subunits by Modulating the Ï€-Bridge. Polymers, 2020, 12, 368.	2.0	10
23	Fluorination Effect for Highly Conjugated Alternating Copolymers Involving Thienylenevinylene-Thiophene-Flanked Benzodithiophene and Benzothiadiazole Subunits in Photovoltaic Application. Polymers, 2020, 12, 504.	2.0	7
24	Insights into Excitonic Dynamics of Terpolymer-Based High-Efficiency Nonfullerene Polymer Solar Cells: Enhancing the Yield of Charge Separation States. ACS Applied Materials & Interfaces, 2020, 12, 8475-8484.	4.0	62
25	Self-doping n-type polymer as a cathode interface layer enables efficient organic solar cells by increasing built-in electric field and boosting interface contact. Journal of Materials Chemistry C, 2019, 7, 11152-11159.	2.7	87
26	Synthesis and Photovoltaic Effect of Electron-Withdrawing Units for Low Band Gap Conjugated Polymers Bearing Bi(thienylenevinylene) Side Chains. Polymers, 2019, 11, 1461.	2.0	3
27	Systematically investigating the influence of inserting alkylthiophene spacers on the aggregation, photo-stability and optoelectronic properties of copolymers from dithieno[2,3-<i>d</i>:2â€²,3â€²-<i>d</i>â€²]benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene and benzothiadiazole derivatives. Polymer Chemistry, 2019, 10, 972-982.	1.9	10
28	Enhanced Organic Photovoltaic Performance through Modulating Vertical Composition Distribution and Promoting Crystallinity of the Photoactive Layer by Diphenyl Sulfide Additives. ACS Applied Materials & Interfaces, 2019, 11, 7022-7029.	4.0	79
29	The comprehensive utilization of the synergistic effect of fullerene and non-fullerene acceptors to achieve highly efficient polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 15841-15850.	5.2	118
30	Impact of linker positions for thieno[3,2-b]thiophene in wide band gap benzo[1,2-b:4,5-bâ€²]dithiophene-based photovoltaic polymers. Journal of Materials Research, 2019, 34, 2057-2066.	1.2	2
31	Effect of Flank Rotation on the Photovoltaic Properties of Dithieno[2,3-d:2â€²,3â€²-dâ€²]benzo[1,2-b:4,5-bâ€²]dithiophene-Based Narrow Band Gap Copolymers. Polymers, 2019, 11, 239.	2.0	6
32	Synthesis and photovoltaic investigation of dithieno[2,3â€‹<i>d</i>:2â€²,3â€²â€‹<i>d</i>â€²]â€benzo[1,2â€‹<i>b</i>:3,4â€‹<i>b</i>â€²:5,6â€‹<i>d</i>â€³]trithiopheneâ€based conj polymer with an enlarged Ï€â€conjugated system. Polymers for Advanced Technologies, 2019, 30, 1290-1302.	1.6	2
33	Enhanced Photovoltaic Performance in D-Ï€-A Copolymers Containing Triisopropylsilylethynyl-Substituted Dithienobenzodithiophene by Modulating the Electron-Deficient Units. Polymers, 2019, 11, 12.	2.0	28
34	Solution-processible Cd-doped ZnO nanoparticles as an electron transport layer to achieve high performance polymer solar cells through improve conductivity and light transmittance. Molecular Crystals and Liquid Crystals, 2019, 692, 74-82.	0.4	9
35	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. Nano Energy, 2018, 45, 368-379.	8.2	101
36	Interaction between Coomassie brilliant blue G250 and octylphenol polyoxyethylene ether (10) in aqueous solution. Journal of Dispersion Science and Technology, 2018, 39, 1208-1213.	1.3	5

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37	Medium band gap conjugated polymers from thienoacene derivatives and pentacyclic aromatic lactam as promising alternatives of poly(3â€hexylthiophene) in photovoltaic application. Journal of Polymer Science Part A, 2018, 56, 85-95.	2.5	30
38	Enhanced efficiency of polymer solar cells through synergistic optimization of mobility and tuning donor alloys by adding high-mobility conjugated polymers. Journal of Materials Chemistry C, 2018, 6, 11015-11022.	2.7	87
39	Effects of alkyl side chain length of low bandgap naphtho[1,2â€‹<i>c</i>:5,6â€‹<i>c</i>â€²]bis[1,2,5]thiadiazoleâ€based copolymers on the optoelectronic properties of polymer solar cells. Journal of Polymer Science Part A, 2018, 56, 2059-2071.	2.5	20
40	36% Enhanced Efficiency of Ternary Organic Solar Cells by Doping a NT-Based Polymer as an Electron-Cascade Donor. Polymers, 2018, 10, 703.	2.0	9
41	Boosting Up Performance of Inverted Photovoltaic Cells from Bis(alkylthien-2-yl)dithieno[2,3-<i>d</i>:2â€²,3â€²-<i>d</i>â€²]benzo[1,2-<i>b</i>:4â€²,5â€²-<i>b</i>â€²]di thiophene-Based Copolymers by Advantageous Vertical Phase Separation. ACS Applied Materials & Interfaces, 2017, 9, 10937-10945.	4.0	25
42	Large branched alkylthienyl bridged naphtho[1,2-<i>c</i>:5,6-<i>c</i>â€²]bis[1,2,5]thiadiazole-containing low bandgap copolymers: Synthesis and photovoltaic application. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 176-185.	1.2	22
43	Effect of alkylthiophene spacers and fluorine on the optoelectronic properties of 5,10-bis(dialkylthien-2-yl)dithieno[2,3-d:2â€²,3â€²-dâ€²]benzo[1,2-b:4,5-bâ€²]dithiophene-alt-benzothiadiazole derivative copolymers. RSC Advances, 2017, 7, 22845-22854.	1.7	22
44	Wide bandgap conjugated polymers based on bithiophene and benzotriazole for bulk heterojunction solar cells: Thiophene versus thieno[3,2-<i>b</i>]thiophene as Ï€-conjugated spacers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 565-574.	1.2	5
45	An alkylthieno-2-yl flanked dithieno[2,3-d:2â€²,3â€²-dâ€²]benzo[1,2-b:4,5-bâ€²]dithiophene-based low band gap conjugated polymer for high performance photovoltaic solar cells. RSC Advances, 2015, 5, 12879-12885.	1.7	24
46	Dithieno[2,3-d:2â€²,3â€²-dâ€²]naphtho[1,2-b:3,4-bâ€²]dithiophene â€“ a novel electron-rich building block for low band gap conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 1601.	2.7	17
47	Synthetically controlling the optoelectronic properties of dithieno[2,3-d:2â€²,3â€²-dâ€²]benzo[1,2-b:4,5-bâ€²]dithiophene-alt-diketopyrrolopyrrole-conjugated polymers for efficient solar cells. Journal of Materials Chemistry A, 2014, 2, 15316-15325.	5.2	46
48	Synthesis and simultaneously enhanced photovoltaic property of poly[4,4,9,9-tetra(4-octyloxyphenyl)-2,7-indaceno[1,2-b:5,6-bâ€²]dithiophene-alt-2,5-thieno[3,2-b]thiophene]. Polymer, 2013, 54, 607-613.	1.8	19
49	An Alternating Copolymer Derived from Indolo[3,2â€‹<i>b</i>]carbazole and 4,7â€Ði(thieno[3,2â€‹<i>b</i>]thienâ€2â€yl)â€2,1,3â€benzothiadiazole for Photovoltaic Cells. Macromolecular Rapid Communications, 2010, 31, 1287-1292.	2.0	32