Zuo-Quan Jiang

List of Publications by Year in Descending Order

106 papers	3,976 citations	35 h-index	60 g-index
113 ext. papers	4,962 ext. citations	9.4 avg, IF	5.78 L-index

#	Paper	IF	Citations
106	Systematic strategy for high-performance small molecular hybrid white OLED via blade coating at ambient condition. *Organic Electronics*, **2022**, 100, 106366	3.5	0
105	Efficient circularly polarized thermally activated delayed fluorescence hetero-[4]helicene with carbonyl-/sulfone-bridged triarylamine structures. *Journal of Materials Chemistry C*, **2022**, 10, 4393-4401	7.1	2
104	Isomeric thermally activated delayed fluorescence emitters based on a quinolino[3,2,1-de]acridine-5,9-dione multiple resonance core and carbazole substituent. *Materials Chemistry Frontiers*, **2022**, 6, 966-972	7.8	3
103	Spatial donor/acceptor architecture for intramolecular charge-transfer emitter. *Chinese Chemical Letters*, **2021**, 32, 1245-1248	8.1	5
102	Highly efficient near-infrared thermally activated delayed fluorescence material based on a spirobifluorene decorated donor. *Organic Electronics*, **2021**, 91, 106088	3.5	3
101	Stacked Thermally Activated Delayed Fluorescence Emitters with Alkyl Chain Modulation. *CCS Chemistry*, **2021**, 3, 1757-1763	7.2	5
100	Over 800 nm Emission via Harvesting of Triplet Excitons in Exciplex Organic Light-Emitting Diodes. *Journal of Physical Chemistry Letters*, **2021**, 12, 6034-6040	6.4	6
99	Multi-Layer Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. *Angewandte Chemie*, **2021**, 133, 5273-5279	3.6	8
98	Multi-Layer Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. *Angewandte Chemie - International Edition*, **2021**, 60, 5213-5219	16.4	35
97	Asymmetrical planar acridine-based hole-transporting materials for highly efficient perovskite solar cells. *Chemical Engineering Journal*, **2021**, 413, 127440	14.7	1
96	Fully Bridged Triphenylamine Derivatives as Color-Tunable Thermally Activated Delayed Fluorescence Emitters. *Organic Letters*, **2021**, 23, 958-962	6.2	25
95	A narrowband blue circularly polarized thermally activated delayed fluorescence emitter with a hetero-helicene structure. *Chemical Communications*, **2021**, 57, 11041-11044	5.8	10
94	Dimers with thermally activated delayed fluorescence (TADF) emission in non-doped device. *Journal of Materials Chemistry C*, **2021**, 9, 4792-4798	7.1	4
93	Harvesting triplet excitons for near-infrared electroluminescence via thermally activated delayed fluorescence channel. *IScience*, **2021**, 24, 102123	6.1	9
92	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y . *Advanced Functional Materials*, **2021**, 31, 2009488	15.6	34
91	Stacked donor-acceptor molecule to realize hybridized local and charge-transfer excited state emission with multi-stimulus response. *Chemical Engineering Journal*, **2021**, 418, 129366	14.7	10
90	31.1: Invited Paper: Emitters with Narrow-band Emission: Molecular Design Strategy. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 414-414	0.5	

89	Research Progress of Intramolecular Stacked Small Molecules for Device Applications. *Advanced Materials*, **2021**, e2104125	24	21
88	Evolution of pure hydrocarbon hosts: simpler structure, higher performance and universal application in RGB phosphorescent organic light-emitting diodes. *Chemical Science*, **2020**, 11, 4887-4894	9.4	35
87	Acceptor modulation for improving a spiro-type thermally activated delayed fluorescence emitter. *Journal of Materials Chemistry C*, **2020**, 8, 8579-8584	7.1	17
86	Highly efficient luminescence from space-confined charge-transfer emitters. *Nature Materials*, **2020**, 19, 1332-1338	27	182
85	All-Fluorescence White Organic Light-Emitting Diodes Exceeding 20% EQEs by Rational Manipulation of Singlet and Triplet Excitons. *Advanced Functional Materials*, **2020**, 30, 1910633	15.6	25
84	Exciplex-Based Organic Light-Emitting Diodes with Near-Infrared Emission. *Advanced Optical Materials*, **2020**, 8, 1901917	8.1	15
83	Structurally controlled singlet-triplet splitting for blue star-shaped thermally activated delayed fluorescence emitters incorporating the tricarbazoles-triazine motifs. *Organic Electronics*, **2020**, 84, 105783	3.5	3
82	Donor-spiro-acceptor architecture for green thermally activated delayed fluorescence (TADF) emitter. *Organic Electronics*, **2020**, 77, 105520	3.5	8
81	Nondoped organic light-emitting diodes with low efficiency roll-off: the combination of aggregation-induced emission, hybridized local and charge-transfer state as well as high photoluminescence efficiency. *Journal of Materials Chemistry C*, **2020**, 8, 3079-3087	7.1	16
80	Highly efficient green phosphorescent organic light-emitting diodes based on tetraphenyl silicon derivative host materials. *Organic Electronics*, **2020**, 78, 105581	3.5	1
79	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. *Advanced Optical Materials*, **2020**, 8, 1901150	8.1	41
78	Efficient Violet Organic Light-Emitting Diodes with CIEy of 0.02 Based on Spiro Skeleton. *Advanced Optical Materials*, **2020**, 8, 2001074	8.1	16
77	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. *Journal of the American Chemical Society*, **2020**, 142, 17756-17765	16.4	81
76	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. *ACS Applied Materials & Interfaces*, **2020**, 12, 55064-55071	9.5	7
75	Near-Infrared Electroluminescence beyond 800 nm with High Efficiency and Radiance from Anthracene Cored Emitters. *Angewandte Chemie - International Edition*, **2020**, 59, 21578-21584	16.4	20
74	Near-Infrared Electroluminescence beyond 800 nm with High Efficiency and Radiance from Anthracene Cored Emitters. *Angewandte Chemie*, **2020**, 132, 21762-21768	3.6	8
73	Sky-Blue Thermally Activated Delayed Fluorescence with Intramolecular Spatial Charge Transfer Based on a Dibenzothiophene Sulfone Emitter. *Journal of Organic Chemistry*, **2020**, 85, 10628-10637	4.2	27
72	Spiro-type host materials with rigidified skeletons for RGB phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 12470-12477	7.1	7

71	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donor-Acceptor System Realizing EQE of Over 30. *Advanced Materials*, **2020**, 32, e2003885	24	76
70	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 4063-4071	13	13
69	High-Quality White Organic Light-Emitting Diodes Composed of Binary Emitters with Color Rendering Index Exceeding 80 by Utilizing Color Remedy Strategy. *Advanced Functional Materials*, **2019**, 29, 1807541	15.6	35
68	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with D□A type emitters. *Materials Chemistry Frontiers*, **2019**, 3, 161-167	7.8	11
67	Short-Axis Methyl Substitution Approach on Indacenodithiophene: A New Multi-Fused Ladder-Type Arene for Organic Solar Cells. *Frontiers in Chemistry*, **2019**, 7, 372	5	3
66	Design and Synthesis of Donor-□□Acceptor-Type Dispiro Molecules. *Organic Letters*, **2019**, 21, 5281-5284	6.2	6
65	One-shot triphenylamine/phenylketone hybrid as a bipolar host material for efficient red phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2019**, 254, 42-48	3.6	2
64	Fluorenone-based thermally activated delayed fluorescence materials for orange-red emission. *Organic Electronics*, **2019**, 73, 240-246	3.5	7
63	Incorporating a tercarbazole donor in a spiro-type host material for efficient RGB phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 6714-6720	7.1	29
62	C1-Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for High-Performance Blue Phosphorescent OLEDs. *Angewandte Chemie*, **2019**, 131, 3888-3893	3.6	15
61	A sky-blue thermally activated delayed fluorescence emitter based on multimodified carbazole donor for efficient organic light-emitting diodes. *Organic Electronics*, **2019**, 68, 113-120	3.5	15
60	52.5: High-Quality White Organic Light-Emitting Diodes by Employing Rational Exciplex Allocation and Color Remedy Effect. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 580-580	0.5	
59	C1-Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for High-Performance Blue Phosphorescent OLEDs. *Angewandte Chemie - International Edition*, **2019**, 58, 3848-3853	16.4	68
58	Alleviating Efficiency Roll-Off of Hybrid Single-Emitting Layer WOLED Utilizing Bipolar TADF Material as Host and Emitter. *ACS Applied Materials & Interfaces*, **2019**, 11, 2197-2204	9.5	36
57	The Design of Fused Amine/Carbonyl System for Efficient Thermally Activated Delayed Fluorescence: Novel Multiple Resonance Core and Electron Acceptor. *Advanced Optical Materials*, **2019**, 7, 1801536	8.1	97
56	Near-infrared non-fullerene acceptors based on dithienyl[1,2-b:4,5-b□]benzodithiophene core for high performance PTB7-Th-based polymer solar cells. *Organic Electronics*, **2019**, 65, 63-69	3.5	9
55	Deep-blue thermally activated delayed fluorescence materials with high glass transition temperature. *Journal of Luminescence*, **2019**, 206, 146-153	3.8	9
54	design of D-□A molecules as universal hosts for monochrome and white phosphorescent organic light-emitting diodes. *Chemical Science*, **2018**, 9, 4062-4070	9.4	49

53	The role of fluorine-substitution on the bridge in constructing effective thermally activated delayed fluorescence molecules. *Journal of Materials Chemistry C*, **2018**, 6, 5536-5541	7.1	24
52	A novel spiro-annulated benzimidazole host for highly efficient blue phosphorescent organic light-emitting devices. *Chemical Communications*, **2018**, 54, 4541-4544	5.8	22
51	A blue thermally activated delayed fluorescence emitter developed by appending a fluorene moiety to a carbazole donor with meta-linkage for high-efficiency OLEDs. *Materials Chemistry Frontiers*, **2018**, 2, 917-922	7.8	31
50	Tilted Spiro-Type Thermally Activated Delayed Fluorescence Host for 100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. *Advanced Functional Materials*, **2018**, 28, 1706228	15.6	54
49	Polyphenylnaphthalene as a Novel Building Block for High-Performance Deep-Blue Organic Light-Emitting Devices. *Advanced Optical Materials*, **2018**, 6, 1700855	8.1	22
48	Efficient near-infrared organic light-emitting diodes based on a bipolar host. *Journal of Materials Chemistry C*, **2018**, 6, 1407-1412	7.1	6
47	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. *Organic Electronics*, **2018**, 62, 89-94	3.5	9
46	Thermally activated delayed fluorescence sensitizer for DAA type emitters with orange-red light emission. *Journal of Materials Chemistry C*, **2018**, 6, 10030-10035	7.1	12
45	Recent advances in electron acceptors with ladder-type backbone for organic solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 17256-17287	13	45
44	High-Efficiency White Organic Light-Emitting Diodes Integrating Gradient Exciplex Allocation System and Novel D-Spiro-A Materials. *ACS Applied Materials & Interfaces*, **2018**, 10, 29840-29847	9.5	36
43	Efficient Near-Infrared Emission by Adjusting the Guest–Host Interactions in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2018**, 28, 1802597	15.6	32
42	Hole-Transporting Materials Incorporating Carbazole into Spiro-Core for Highly Efficient Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 29, 1807094	15.6	49
41	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. *Journal of Materials Chemistry A*, **2018**, 6, 24814-24822	13	14
40	Near-Infrared Ternary Tandem Solar Cells. *Advanced Materials*, **2018**, 30, e1804416	24	50
39	Highly efficient non-doped deep-blue organic light-emitting diodes by employing a highly rigid skeleton. *Dyes and Pigments*, **2018**, 158, 396-401	4.6	9
38	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. *Science China Chemistry*, **2018**, 61, 1405-1412	7.9	14
37	Highly Efficient Deep-Blue Electroluminescence from a Charge-Transfer Emitter with Stable Donor Skeleton. *ACS Applied Materials & Interfaces*, **2017**, 9, 7331-7338	9.5	77
36	Over 10% EQE Near-Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. *Advanced Functional Materials*, **2017**, 27, 1700986	15.6	175

35	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. *Organic Letters*, **2017**, 19, 3155-3158	6.2	40
34	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. *Energy and Environmental Science*, **2017**, 10, 1610-1620	35.4	238
33	D-A-Type Emitter Featuring Benzo[c][1,2,5]thiadiazole and Polar C?N Bond as Tandem Acceptor for High-Performance Near-Infrared Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2017**, 5, 1700566	8.1	14
32	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. *Solar Rrl*, **2017**, 1, 1700107	7.1	41
31	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiro-Based Skeleton for High Power Efficiency and Low Roll-Off Blue and White Phosphorescent Devices. *Advanced Functional Materials*, **2016**, 26, 7929-7936	15.6	74
30	New advances in small molecule hole-transporting materials for perovskite solar cells. *Chinese Chemical Letters*, **2016**, 27, 1293-1303	8.1	16
29	De Novo Design of Boron-Based Host Materials for Highly Efficient Blue and White Phosphorescent OLEDs with Low Efficiency Roll-Off. *ACS Applied Materials & Interfaces*, **2016**, 8, 20230-6	9.5	38
28	Utilizing 9,10-dihydroacridine and pyrazine-containing donor-acceptor host materials for highly efficient red phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2016**, 4, 7869-7874	7.1	15
27	An effective host material with thermally activated delayed fluorescence formed by confined conjugation for red phosphorescent organic light-emitting diodes. *Chemical Communications*, **2016**, 52, 8149-51	5.8	36
26	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. *Energy and Environmental Science*, **2016**, 9, 3429-3435	35.4	154
25	Highly Efficient Blue Phosphorescent Organic Light-Emitting Diodes Employing a Host Material with Small Bandgap. *ACS Applied Materials & Interfaces*, **2016**, 8, 16186-91	9.5	43
24	The Control of Conjugation Lengths and Steric Hindrance to Modulate Aggregation-Induced Emission with High Electroluminescence Properties and Interesting Optical Properties. *Chemistry - A European Journal*, **2016**, 22, 916-24	4.8	13
23	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 5890-5897	13	202
22	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. *Advanced Materials*, **2016**, 28, 7620-5	24	136
21	Dopant-Free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. *Advanced Functional Materials*, **2016**, 26, 1375-1381	15.6	194
20	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. *Nano Energy*, **2016**, 27, 430-438	17.1	112
19	Spiro-fused N-phenylcarbazole-based host materials for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2015**, 20, 112-118	3.5	18
18	A facile way to synthesize high-triplet-energy hosts for blue phosphorescent organic light-emitting diodes with high glass transition temperature and low driving voltage. *Dyes and Pigments*, **2015**, 122, 6-12	4.6	18

17	Effective host materials for blue/white organic light-emitting diodes by utilizing the twisted conjugation structure in 10-phenyl-9,10-dihydroacridine block. *Chemistry - an Asian Journal*, **2015**, 10, 1402-9	4.5	27
16	The study on two kinds of spiro systems for improving the performance of host materials in blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2015**, 3, 9053-9056	7.1	18
15	Orthogonal Molecular Structure for Better Host Material in Blue Phosphorescence and Larger OLED White Lighting Panel. *Advanced Functional Materials*, **2015**, 25, 645-650	15.6	132
14	Pure Hydrocarbon Hosts for 100% Exciton Harvesting in Both Phosphorescent and Fluorescent Light-Emitting Devices. *Advanced Materials*, **2015**, 27, 4213-7	24	149
13	Rational Design of Dibenzothiophene-Based Host Materials for PHOLEDs. *Journal of Physical Chemistry C*, **2014**, 118, 2375-2384	3.8	36
12	Highly efficient single-layer organic light-emitting devices based on a bipolar pyrazine/carbazole hybrid host material. *Journal of Materials Chemistry C*, **2014**, 2, 2488-2495	7.1	61
11	A rational design of carbazole-based host materials with suitable spacer group towards highly-efficient blue phosphorescence. *Journal of Materials Chemistry C*, **2014**, 2, 6387	7.1	29
10	Improved host material for electrophosphorescence by positional engineering of spirobifluorene carbazole hybrids. *Journal of Materials Chemistry C*, **2014**, 2, 8736-8744	7.1	20
9	Control of conjugation degree via position engineering to highly efficient phosphorescent host materials. *Organic Letters*, **2014**, 16, 3748-51	6.2	43
8	Silicon-based material with spiro-annulated fluorene/triphenylamine as host and exciton-blocking layer for blue electrophosphorescent devices. *Chemistry - A European Journal*, **2013**, 19, 11791-7	4.8	29
7	Spiro-annulated triarylamine-based hosts incorporating dibenzothiophene for highly efficient single-emitting layer white phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2013**, 1, 6575	7.1	46
6	meta-Linked spirobifluorene/phosphine oxide hybrids as host materials for deep blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 1924-1930	3.5	42
5	Novel dibenzothiophene based host materials incorporating spirobifluorene for high-efficiency white phosphorescent organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 902-908	3.5	35
4	New dibenzofuran/spirobifluorene hybrids as thermally stable host materials for efficient phosphorescent organic light-emitting diodes with low efficiency roll-off. *Physical Chemistry Chemical Physics*, **2012**, 14, 14224-8	3.6	34
3	Spiro Compounds for Organic Light-Emitting Diodes. *Accounts of Materials Research*,	7.5	6
2	Spirobifluorene Dimers: Understanding How The Molecular Assemblies Drive The Electronic Properties. *Advanced Functional Materials*,2104980	15.6	1
1	Highly Efficient Sensitized Chiral Hybridized Local and Charge-Transfer Emitter Circularly Polarized Electroluminescence. *Advanced Functional Materials*,2201512	15.6	4