

Zuo-Quan Jiang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1610-1620	35.4	238
105	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5890-5897	13	202
104	Dopant-Free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Advanced Functional Materials</i> , 2016 , 26, 1375-1381	15.6	194
103	Highly efficient luminescence from space-confined charge-transfer emitters. <i>Nature Materials</i> , 2020 , 19, 1332-1338	27	182
102	Over 10% EQE Near-Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2017 , 27, 1700986	15.6	175
101	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. <i>Energy and Environmental Science</i> , 2016 , 9, 3429-3435	35.4	154
100	Pure Hydrocarbon Hosts for 100% Exciton Harvesting in Both Phosphorescent and Fluorescent Light-Emitting Devices. <i>Advanced Materials</i> , 2015 , 27, 4213-7	24	149
99	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. <i>Advanced Materials</i> , 2016 , 28, 7620-5	24	136
98	Orthogonal Molecular Structure for Better Host Material in Blue Phosphorescence and Larger OLED White Lighting Panel. <i>Advanced Functional Materials</i> , 2015 , 25, 645-650	15.6	132
97	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. <i>Nano Energy</i> , 2016 , 27, 430-438	17.1	112
96	The Design of Fused Amine/Carbonyl System for Efficient Thermally Activated Delayed Fluorescence: Novel Multiple Resonance Core and Electron Acceptor. <i>Advanced Optical Materials</i> , 2019 , 7, 1801536	8.1	97
95	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17756-17765	16.4	81
94	Highly Efficient Deep-Blue Electroluminescence from a Charge-Transfer Emitter with Stable Donor Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7331-7338	9.5	77
93	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donor-Acceptor System Realizing EQE of Over 30. <i>Advanced Materials</i> , 2020 , 32, e2003885	24	76
92	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. <i>Advanced Functional Materials</i> , 2016 , 26, 7929-7936	15.6	74
91	C1-Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for High-Performance Blue Phosphorescent OLEDs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3848-3853	16.4	68
90	Highly efficient single-layer organic light-emitting devices based on a bipolar pyrazine/carbazole hybrid host material. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2488-2495	7.1	61

89	Tilted Spiro-Type Thermally Activated Delayed Fluorescence Host for 100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. <i>Advanced Functional Materials</i> , 2018 , 28, 1706228	15.6	54
88	Near-Infrared Ternary Tandem Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804416	24	50
87	design of D-A molecules as universal hosts for monochrome and white phosphorescent organic light-emitting diodes. <i>Chemical Science</i> , 2018 , 9, 4062-4070	9.4	49
86	Hole-Transporting Materials Incorporating Carbazole into Spiro-Core for Highly Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 29, 1807094	15.6	49
85	Spiro-annulated triarylamine-based hosts incorporating dibenzothiophene for highly efficient single-emitting layer white phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6575	7.1	46
84	Recent advances in electron acceptors with ladder-type backbone for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17256-17287	13	45
83	Highly Efficient Blue Phosphorescent Organic Light-Emitting Diodes Employing a Host Material with Small Bandgap. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16186-91	9.5	43
82	Control of conjugation degree via position engineering to highly efficient phosphorescent host materials. <i>Organic Letters</i> , 2014 , 16, 3748-51	6.2	43
81	meta-Linked spirobifluorene/phosphine oxide hybrids as host materials for deep blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 1924-1930	3.5	42
80	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017 , 1, 1700107	7.1	41
79	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. <i>Advanced Optical Materials</i> , 2020 , 8, 1901150	8.1	41
78	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. <i>Organic Letters</i> , 2017 , 19, 3155-3158	6.2	40
77	De Novo Design of Boron-Based Host Materials for Highly Efficient Blue and White Phosphorescent OLEDs with Low Efficiency Roll-Off. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20230-6	9.5	38
76	An effective host material with thermally activated delayed fluorescence formed by confined conjugation for red phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2016 , 52, 8149-51	5.8	36
75	High-Efficiency White Organic Light-Emitting Diodes Integrating Gradient Exciplex Allocation System and Novel D-Spiro-A Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29840-29847	9.5	36
74	Rational Design of Dibenzothiophene-Based Host Materials for PHOLEDs. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2375-2384	3.8	36
73	Alleviating Efficiency Roll-Off of Hybrid Single-Emitting Layer WOLED Utilizing Bipolar TADF Material as Host and Emitter. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2197-2204	9.5	36
72	High-Quality White Organic Light-Emitting Diodes Composed of Binary Emitters with Color Rendering Index Exceeding 80 by Utilizing Color Remedy Strategy. <i>Advanced Functional Materials</i> , 2019 , 29, 1807541	15.6	35

71	Evolution of pure hydrocarbon hosts: simpler structure, higher performance and universal application in RGB phosphorescent organic light-emitting diodes. <i>Chemical Science</i> , 2020 , 11, 4887-4894	9.4	35
70	Novel dibenzothiophene based host materials incorporating spirobifluorene for high-efficiency white phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 902-908	3.5	35
69	Multi-Layer π -Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5213-5219	16.4	35
68	New dibenzofuran/spirobifluorene hybrids as thermally stable host materials for efficient phosphorescent organic light-emitting diodes with low efficiency roll-off. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14224-8	3.6	34
67	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y = 0.0001). <i>Advanced Functional Materials</i> , 2021 , 31, 2009488	15.6	34
66	Efficient Near-Infrared Emission by Adjusting the Guest-Host Interactions in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1802597	15.6	32
65	A blue thermally activated delayed fluorescence emitter developed by appending a fluorene moiety to a carbazole donor with meta-linkage for high-efficiency OLEDs. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 917-922	7.8	31
64	Incorporating a tercarbazole donor in a spiro-type host material for efficient RGB phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6714-6720	7.1	29
63	A rational design of carbazole-based host materials with suitable spacer group towards highly-efficient blue phosphorescence. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6387	7.1	29
62	Silicon-based material with spiro-annulated fluorene/triphenylamine as host and exciton-blocking layer for blue electrophosphorescent devices. <i>Chemistry - A European Journal</i> , 2013 , 19, 11791-7	4.8	29
61	Effective host materials for blue/white organic light-emitting diodes by utilizing the twisted conjugation structure in 10-phenyl-9,10-dihydroacridine block. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1402-9	4.5	27
60	Sky-Blue Thermally Activated Delayed Fluorescence with Intramolecular Spatial Charge Transfer Based on a Dibenzothiophene Sulfone Emitter. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10628-10637	4.2	27
59	All-Fluorescence White Organic Light-Emitting Diodes Exceeding 20% EQEs by Rational Manipulation of Singlet and Triplet Excitons. <i>Advanced Functional Materials</i> , 2020 , 30, 1910633	15.6	25
58	Fully Bridged Triphenylamine Derivatives as Color-Tunable Thermally Activated Delayed Fluorescence Emitters. <i>Organic Letters</i> , 2021 , 23, 958-962	6.2	25
57	The role of fluorine-substitution on the π -bridge in constructing effective thermally activated delayed fluorescence molecules. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5536-5541	7.1	24
56	A novel spiro-annulated benzimidazole host for highly efficient blue phosphorescent organic light-emitting devices. <i>Chemical Communications</i> , 2018 , 54, 4541-4544	5.8	22
55	Polyphenylnaphthalene as a Novel Building Block for High-Performance Deep-Blue Organic Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1700855	8.1	22
54	Research Progress of Intramolecular π -Stacked Small Molecules for Device Applications. <i>Advanced Materials</i> , 2021 , e2104125	24	21

53	Improved host material for electrophosphorescence by positional engineering of spirobifluorene-carbazole hybrids. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8736-8744	7.1	20
52	Near-Infrared Electroluminescence beyond 800 nm with High Efficiency and Radiance from Anthracene Cored Emitters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21578-21584	16.4	20
51	Spiro-fused N-phenylcarbazole-based host materials for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2015 , 20, 112-118	3.5	18
50	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. <i>Dyes and Pigments</i> , 2015 , 122, 6-12	4.6	18
49	The study on two kinds of spiro systems for improving the performance of host materials in blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9053-9056	7.1	18
48	Acceptor modulation for improving a spiro-type thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8579-8584	7.1	17
47	New advances in small molecule hole-transporting materials for perovskite solar cells. <i>Chinese Chemical Letters</i> , 2016 , 27, 1293-1303	8.1	16
46	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. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3079-3087	7.1	16
45	Efficient Violet Organic Light-Emitting Diodes with CIEy of 0.02 Based on Spiro Skeleton. <i>Advanced Optical Materials</i> , 2020 , 8, 2001074	8.1	16
44	C1-Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for High-Performance Blue Phosphorescent OLEDs. <i>Angewandte Chemie</i> , 2019 , 131, 3888-3893	3.6	15
43	A sky-blue thermally activated delayed fluorescence emitter based on multimodified carbazole donor for efficient organic light-emitting diodes. <i>Organic Electronics</i> , 2019 , 68, 113-120	3.5	15
42	Exciplex-Based Organic Light-Emitting Diodes with Near-Infrared Emission. <i>Advanced Optical Materials</i> , 2020 , 8, 1901917	8.1	15
41	Utilizing 9,10-dihydroacridine and pyrazine-containing donor-acceptor host materials for highly efficient red phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7869-7874	7.1	15
40	DAA-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. <i>Advanced Optical Materials</i> , 2017 , 5, 1700566	8.1	14
39	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24814-24822	13	14
38	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. <i>Science China Chemistry</i> , 2018 , 61, 1405-1412	7.9	14
37	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4063-4071	13	13
36	The Control of Conjugation Lengths and Steric Hindrance to Modulate Aggregation-Induced Emission with High Electroluminescence Properties and Interesting Optical Properties. <i>Chemistry - A European Journal</i> , 2016 , 22, 916-24	4.8	13

35	Thermally activated delayed fluorescence sensitizer for DAA type emitters with orange-red light emission. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10030-10035	7.1	12
34	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with DAA type emitters. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 161-167	7.8	11
33	A narrowband blue circularly polarized thermally activated delayed fluorescence emitter with a hetero-helicene structure. <i>Chemical Communications</i> , 2021 , 57, 11041-11044	5.8	10
32	Stacked donor-acceptor molecule to realize hybridized local and charge-transfer excited state emission with multi-stimulus response. <i>Chemical Engineering Journal</i> , 2021 , 418, 129366	14.7	10
31	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. <i>Organic Electronics</i> , 2018 , 62, 89-94	3.5	9
30	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. <i>Organic Electronics</i> , 2019 , 65, 63-69	3.5	9
29	Deep-blue thermally activated delayed fluorescence materials with high glass transition temperature. <i>Journal of Luminescence</i> , 2019 , 206, 146-153	3.8	9
28	Harvesting triplet excitons for near-infrared electroluminescence via thermally activated delayed fluorescence channel. <i>IScience</i> , 2021 , 24, 102123	6.1	9
27	Highly efficient non-doped deep-blue organic light-emitting diodes by employing a highly rigid skeleton. <i>Dyes and Pigments</i> , 2018 , 158, 396-401	4.6	9
26	Donor-spiro-acceptor architecture for green thermally activated delayed fluorescence (TADF) emitter. <i>Organic Electronics</i> , 2020 , 77, 105520	3.5	8
25	Near-Infrared Electroluminescence beyond 800 nm with High Efficiency and Radiance from Anthracene Cored Emitters. <i>Angewandte Chemie</i> , 2020 , 132, 21762-21768	3.6	8
24	Multi-Layer Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. <i>Angewandte Chemie</i> , 2021 , 133, 5273-5279	3.6	8
23	Fluorenone-based thermally activated delayed fluorescence materials for orange-red emission. <i>Organic Electronics</i> , 2019 , 73, 240-246	3.5	7
22	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55064-55071	9.5	7
21	Spiro-type host materials with rigidified skeletons for RGB phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12470-12477	7.1	7
20	Design and Synthesis of Donor-Acceptor-Type Dispiro Molecules. <i>Organic Letters</i> , 2019 , 21, 5281-5284	6.2	6
19	Efficient near-infrared organic light-emitting diodes based on a bipolar host. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1407-1412	7.1	6
18	Spiro Compounds for Organic Light-Emitting Diodes. <i>Accounts of Materials Research</i> ,	7.5	6

17	Over 800 nm Emission via Harvesting of Triplet Excitons in Exciplex Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6034-6040	6.4	6
16	Spatial donor/acceptor architecture for intramolecular charge-transfer emitter. <i>Chinese Chemical Letters</i> , 2021 , 32, 1245-1248	8.1	5
15	Stacked Thermally Activated Delayed Fluorescence Emitters with Alkyl Chain Modulation. <i>CCS Chemistry</i> , 2021 , 3, 1757-1763	7.2	5
14	Dimers with thermally activated delayed fluorescence (TADF) emission in non-doped device. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4792-4798	7.1	4
13	Highly Efficient Sensitized Chiral Hybridized Local and Charge-Transfer Emitter Circularly Polarized Electroluminescence. <i>Advanced Functional Materials</i> , 2021 , 31, 210512	15.6	4
12	Short-Axis Methyl Substitution Approach on Indacenodithiophene: A New Multi-Fused Ladder-Type Arene for Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2019 , 7, 372	5	3
11	Structurally controlled singlet-triplet splitting for blue star-shaped thermally activated delayed fluorescence emitters incorporating the tricarbazoles-triazine motifs. <i>Organic Electronics</i> , 2020 , 84, 105783	3.5	3
10	Highly efficient near-infrared thermally activated delayed fluorescence material based on a spirobifluorene decorated donor. <i>Organic Electronics</i> , 2021 , 91, 106088	3.5	3
9	Isomeric thermally activated delayed fluorescence emitters based on a quinolino[3,2,1-de]acridine-5,9-dione multiple resonance core and carbazole substituent. <i>Materials Chemistry Frontiers</i> , 2022 , 6, 966-972	7.8	3
8	One-shot triphenylamine/phenylketone hybrid as a bipolar host material for efficient red phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2019 , 254, 42-48	3.6	2
7	Efficient circularly polarized thermally activated delayed fluorescence hetero-[4]helicene with carbonyl/sulfone-bridged triarylamine structures. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4393-4401	7.1	2
6	Highly efficient green phosphorescent organic light-emitting diodes based on tetraphenyl silicon derivative host materials. <i>Organic Electronics</i> , 2020 , 78, 105581	3.5	1
5	Asymmetrical planar acridine-based hole-transporting materials for highly efficient perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 413, 127440	14.7	1
4	Spirobifluorene Dimers: Understanding How The Molecular Assemblies Drive The Electronic Properties. <i>Advanced Functional Materials</i> , 2021 , 31, 2104980	15.6	1
3	Systematic strategy for high-performance small molecular hybrid white OLED via blade coating at ambient condition. <i>Organic Electronics</i> , 2022 , 100, 106366	3.5	0
2	52.5: High-Quality White Organic Light-Emitting Diodes by Employing Rational Exciplex Allocation and Color Remedy Effect. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 580-580	0.5	
1	31.1: Invited Paper: Emitters with Narrow-band Emission: Molecular Design Strategy. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 414-414	0.5	