

# Xinyi Cai

## List of Publications by Citations

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54  
papers

2,724  
citations

27  
h-index

52  
g-index

56  
ext. papers

3,187  
ext. citations

9.1  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
54	Marching Toward Highly Efficient, Pure-Blue, and Stable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802558	15.6	323
53	Evaporation- and Solution-Process-Feasible Highly Efficient Thianthrene-9,9',10,10'-Tetraoxide-Based Thermally Activated Delayed Fluorescence Emitters with Reduced Efficiency Roll-Off. <i>Advanced Materials</i> , <b>2016</b> , 28, 181-7	24	253
52	"Rate-limited effect" of reverse intersystem crossing process: the key for tuning thermally activated delayed fluorescence lifetime and efficiency roll-off of organic light emitting diodes. <i>Chemical Science</i> , <b>2016</b> , 7, 4264-4275	9.4	178
51	Design Strategy of Blue and Yellow Thermally Activated Delayed Fluorescence Emitters and Their All-Fluorescence White OLEDs with External Quantum Efficiency beyond 20%. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6904-6912	15.6	138
50	Tri-Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11301-11305	16.4	128
49	Singlet-Triplet Splitting Energy Management via Acceptor Substitution: Complanation Molecular Design for Deep-Blue Thermally Activated Delayed Fluorescence Emitters and Organic Light-Emitting Diodes Application. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8042-8052	15.6	126
48	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8630-8636	9.6	119
47	Fluorescent Organic Planar pn Heterojunction Light-Emitting Diodes with Simplified Structure, Extremely Low Driving Voltage, and High Efficiency. <i>Advanced Materials</i> , <b>2016</b> , 28, 239-44	24	104
46	High-Efficiency WOLEDs with High Color-Rendering Index based on a Chromaticity-Adjustable Yellow Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Materials</i> , <b>2016</b> , 28, 4614-9	24	103
45	Study of Configuration Differentia and Highly Efficient, Deep-Blue, Organic Light-Emitting Diodes Based on Novel Naphtho[1,2-d]imidazole Derivatives. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5190-5198	15.6	81
44	Trade-Off Hidden in Condensed State Solvation: Multiradiative Channels Design for Highly Efficient Solution-Processed Purely Organic Electroluminescence at High Brightness. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704927	15.6	79
43	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 582-586	16.4	78
42	Structure-Performance Investigation of Thioxanthone Derivatives for Developing Color Tunable Highly Efficient Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8627-36	9.5	70
41	Utilizing a Spiro TADF Moiety as a Functional Electron Donor in TADF Molecular Design toward Efficient Multichannel Reverse Intersystem Crossing. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808088	15.6	63
40	Achieving Efficient Triplet Exciton Utilization with Large $\Phi$ and Nonobvious Delayed Fluorescence by Adjusting Excited State Energy Levels. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4725-4731	6.4	52
39	An ideal universal host for highly efficient full-color, white phosphorescent and TADF OLEDs with a simple and unified structure. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10406-10416	7.1	47
38	Polarity-Tunable Host Materials and Their Applications in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27920-27930	9.5	47

37	Deep blue fluorophores incorporating sulfone-locked triphenylamine: the key for highly efficient fluorescence-phosphorescence hybrid white OLEDs with simplified structure. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6986-6996	7.1	44
36	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13522-13531	16.4	43
35	Highly efficient thermally activated delayed fluorescence materials with reduced efficiency roll-off and low on-set voltages. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2039-2046	7.8	41
34	Exciton-Adjustable Interlayers for High Efficiency, Low Efficiency Roll-Off, and Lifetime Improved Warm White Organic Light-Emitting Diodes (WOLEDs) Based on a Delayed Fluorescence Assistant Host. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706922	15.6	39
33	Efficient solution-processed red all-fluorescent organic light-emitting diodes employing thermally activated delayed fluorescence materials as assistant hosts: molecular design strategy and exciton dynamic analysis. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5223-5231	7.1	37
32	9,9-Diphenyl-thioxanthene derivatives as host materials for highly efficient blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9999-10006	7.1	32
31	Achieving Enhanced Thermally Activated Delayed Fluorescence Rates and Shortened Exciton Lifetimes by Constructing Intramolecular Hydrogen Bonding Channels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45999-46007	9.5	29
30	Structure-simplified and highly efficient deep blue organic light-emitting diodes with reduced efficiency roll-off at extremely high luminance. <i>Chemical Communications</i> , <b>2016</b> , 52, 14454-14457	5.8	28
29	Reversible switching between normal and thermally activated delayed fluorescence towards smart and single compound white-light luminescence via controllable conformational distribution. <i>Science China Chemistry</i> , <b>2018</b> , 61, 677-686	7.9	27
28	Predicting Operational Stability for Organic Light-Emitting Diodes with Exciplex Cohosts. <i>Advanced Science</i> , <b>2019</b> , 6, 1802246	13.6	27
27	Incorporation of rubidium cations into blue perovskite quantum dot light-emitting diodes via FABr-modified multi-cation hot-injection method. <i>Nanoscale</i> , <b>2019</b> , 11, 1295-1303	7.7	26
26	Achieving high-efficiency purely organic room-temperature phosphorescence materials by boronic ester substitution of phenoxathiine. <i>Chemical Communications</i> , <b>2019</b> , 55, 7215-7218	5.8	26
25	Co-Interlayer Engineering toward Efficient Green Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910167	15.6	26
24	An Effective Strategy toward High-Efficiency Fluorescent OLEDs by Radiative Coupling of Spatially Separated Electron-Hole Pairs. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800025	4.6	26
23	One-step synthesis of cyclic compounds towards easy room-temperature phosphorescence and deep blue thermally activated delayed fluorescence. <i>Chemical Communications</i> , <b>2018</b> , 54, 7850-7853	5.8	25
22	Highly efficient blue and warm white organic light-emitting diodes with a simplified structure. <i>Nanotechnology</i> , <b>2016</b> , 27, 124001	3.4	25
21	Star-shaped isoindigo-based small molecules as potential non-fullerene acceptors in bulk heterojunction solar cells. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 8771-8779	3.6	23
20	Thiophene Disubstituted Benzothiadiazole Derivatives: An Effective Planarization Strategy Toward Deep-Red to Near-Infrared (NIR) Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 276	5	19

19	Nonaromatic Amine Containing Exciplex for Thermally Activated Delayed Fluorescent Electroluminescence. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801554	8.1	19
18	Achieving Purely Organic Room-Temperature Phosphorescence Mediated by a Host-Guest Charge Transfer State. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4600-4608	6.4	19
17	Sky-blue thermally activated delayed fluorescence material employing a diphenylethyne acceptor for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 36-42	7.1	19
16	Synthesis and photovoltaic properties of A <sub>2</sub> B type non-fullerene acceptors containing isoindigo terminal units. <i>RSC Advances</i> , <b>2015</b> , 5, 107566-107574	3.7	18
15	D-A-D-type orange-light emitting thermally activated delayed fluorescence (TADF) materials based on a fluorenone unit: simulation, photoluminescence and electroluminescence studies. <i>Beilstein Journal of Organic Chemistry</i> , <b>2018</b> , 14, 672-681	2.5	17
14	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13656-13665	3.6	17
13	Highly efficient thermally activated delayed fluorescence yellow organic light-emitting diodes with a low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8063-8069	7.1	16
12	Introduction of Twisted Backbone: A New Strategy to Achieve Efficient Blue Fluorescence Emitter with Delayed Emission. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700334	8.1	15
11	Pyridine-Based Bipolar Hosts for Solution-Processed Bluish-Green Thermally Activated Delayed Fluorescence Devices: A Subtle Regulation of Chemical Stability and Carrier Transportation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 49905-49914	9.5	12
10	Engineering the excited-state properties of purely organic intramolecular and intermolecular charge transfer emitters towards high-performance fluorescent OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10991-11000	7.1	11
9	Boosting purely organic room-temperature phosphorescence performance through a host-guest strategy. <i>Chemical Science</i> , <b>2021</b> , 12, 13580-13587	9.4	9
8	Spiro[fluorene-9,9'-thioxanthene] core based host materials for thermally activated delayed fluorescence devices. <i>Dyes and Pigments</i> , <b>2019</b> , 163, 249-256	4.6	8
7	Enhanced performances of planar heterojunction organic light-emitting diodes via diluting an n-type transporter into a carbazole-based matrix. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 29-35	7.1	5
6	Dynamic adjustment of emission from both singlets and triplets: the role of excited state conformation relaxation and charge transfer in phenothiazine derivatives. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 1378-1386	7.1	5
5	Tri-Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11423	3.6	1
4	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , <b>2018</b> , 131, 592	3.6	1
3	Highly efficient and stable blue thermally activated delayed fluorescent organic light-emitting diodes <b>2022</b> , 117-191		0
2	3.2: Singlet-Triplet Splitting Energy Management via Acceptor Substitution: Complanation Molecular Design for Deep-Blue Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 16-21	0.5	

- 1 19.1: Exciton-Adjustable Interlayers for Efficient and Lifetime Improved Warm White Organic Light-Emitting Diodes Based on a Delayed Fluorescence Assistant Host. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 197-201 0.5