

Xinyi Cai

List of Publications by Year in descending order

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56
papers

3,701
citations

147566

31
h-index

161609

54
g-index

56
all docs

56
docs citations

56
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Marching Toward Highly Efficient, Pure Blue, and Stable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018, 28, 1802558.	7.8	489
2	Evaporation- and Solution-Process-Feasible Highly Efficient Thianthrene, 9,10,10-Tetraoxide-Based Thermally Activated Delayed Fluorescence Emitters with Reduced Efficiency Roll-Off. <i>Advanced Materials</i> , 2016, 28, 181-187.	11.1	291
3	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> , 2016, 7, 4264-4275.	3.7	212
4	Triplet-Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11301-11305.	7.2	198
5	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> , 2016, 26, 6904-6912.	7.8	164
6	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. <i>Chemistry of Materials</i> , 2017, 29, 8630-8636.	3.2	164
7	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> , 2016, 26, 8042-8052.	7.8	141
8	High-Efficiency WOLEDs with High Color-Rending Index based on a Chromaticity-Adjustable Yellow Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Materials</i> , 2016, 28, 4614-4619.	11.1	120
9	Fluorescent Organic Planar pn Heterojunction Light-Emitting Diodes with Simplified Structure, Extremely Low Driving Voltage, and High Efficiency. <i>Advanced Materials</i> , 2016, 28, 239-244.	11.1	115
10	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 582-586.	7.2	111
11	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> , 2018, 28, 1704927.	7.8	105
12	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> , 2019, 29, 1808088.	7.8	101
13	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> , 2015, 25, 5190-5198.	7.8	91
14	Structure-Performance Investigation of Thioxanthone Derivatives for Developing Color Tunable Highly Efficient Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8627-8636.	4.0	89
15	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13522-13531.	7.2	72
16	Achieving Efficient Triplet Exciton Utilization with Large τ_{ST} and Nonobvious Delayed Fluorescence by Adjusting Excited State Energy Levels. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4725-4731.	2.1	69
17	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> , 2017, 5, 10406-10416.	2.7	63
18	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> , 2017, 5, 5223-5231.	2.7	62

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19	Polarity-Tunable Host Materials and Their Applications in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27920-27930.	4.0	59
20	Co-interlayer Engineering toward Efficient Green Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 1910167.	7.8	52
21	Highly efficient thermally activated delayed fluorescence materials with reduced efficiency roll-off and low on-set voltages. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2039-2046.	3.2	49
22	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> , 2015, 3, 6986-6996.	2.7	48
23	Achieving Purely Organic Room-Temperature Phosphorescence Mediated by a Host-Guest Charge Transfer State. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4600-4608.	2.1	47
24	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> , 2018, 28, 1706922.	7.8	45
25	An Effective Strategy toward High-Efficiency Fluorescent OLEDs by Radiative Coupling of Spatially Separated Electron-Hole Pairs. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800025.	1.9	44
26	Achieving Enhanced Thermally Activated Delayed Fluorescence Rates and Shortened Exciton Lifetimes by Constructing Intramolecular Hydrogen Bonding Channels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45999-46007.	4.0	43
27	Predicting Operational Stability for Organic Light-Emitting Diodes with Exciplex Cohosts. <i>Advanced Science</i> , 2019, 6, 1802246.	5.6	42
28	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> , 2018, 61, 677-686.	4.2	37
29	Incorporation of rubidium cations into blue perovskite quantum dot light-emitting diodes via FABr-modified multi-cation hot-injection method. <i>Nanoscale</i> , 2019, 11, 1295-1303.	2.8	36
30	Achieving high-efficiency purely organic room-temperature phosphorescence materials by boronic ester substitution of phenoxathiine. <i>Chemical Communications</i> , 2019, 55, 7215-7218.	2.2	35
31	9,9-Diphenyl-thioxanthene derivatives as host materials for highly efficient blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9999-10006.	2.7	34
32	One-step synthesis of cyclic compounds towards easy room-temperature phosphorescence and deep blue thermally activated delayed fluorescence. <i>Chemical Communications</i> , 2018, 54, 7850-7853.	2.2	32
33	Structure-simplified and highly efficient deep blue organic light-emitting diodes with reduced efficiency roll-off at extremely high luminance. <i>Chemical Communications</i> , 2016, 52, 14454-14457.	2.2	29
34	Thiophene Disubstituted Benzothiadiazole Derivatives: An Effective Planarization Strategy Toward Deep-Red to Near-Infrared (NIR) Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2019, 7, 276.	1.8	29
35	Tri-spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. <i>Angewandte Chemie</i> , 2019, 131, 11423-11427.	1.6	28
36	Boosting purely organic room-temperature phosphorescence performance through a host-guest strategy. <i>Chemical Science</i> , 2021, 12, 13580-13587.	3.7	27

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37	Highly efficient blue and warm white organic light-emitting diodes with a simplified structure. <i>Nanotechnology</i> , 2016, 27, 124001.	1.3	26
38	Nonaromatic Amine Containing Exciplex for Thermally Activated Delayed Fluorescent Electroluminescence. <i>Advanced Optical Materials</i> , 2019, 7, 1801554.	3.6	26
39	Star-shaped isoindigo-based small molecules as potential non-fullerene acceptors in bulk heterojunction solar cells. <i>New Journal of Chemistry</i> , 2015, 39, 8771-8779.	1.4	25
40	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2019, 131, 13656-13665.	1.6	24
41	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 & Interfaces</i> , 2020, 12, 49905-49914.	4.0	24
42	Introduction of Twisted Backbone: A New Strategy to Achieve Efficient Blue Fluorescence Emitter with Delayed Emission. <i>Advanced Optical Materials</i> , 2017, 5, 1700334.	3.6	23
43	Sky-blue thermally activated delayed fluorescence material employing a diphenylethyne acceptor for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 36-42.	2.7	23
44	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2019, 131, 592-596.	1.6	22
45	D- and 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> , 2018, 14, 672-681.	1.3	22
46	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> , 2021, 9, 1378-1386.	2.7	22
47	Highly efficient thermally activated delayed fluorescence yellow organic light-emitting diodes with a low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8063-8069.	2.7	21
48	Synthesis and photovoltaic properties of A type non-fullerene acceptors containing isoindigo terminal units. <i>RSC Advances</i> , 2015, 5, 107566-107574.	1.7	19
49	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> , 2017, 5, 10991-11000.	2.7	14
50	A Flexible Purely Organic Molecule Exhibiting Strong Spin-Orbital Coupling: Toward Nondoped Room-Temperature Phosphorescence OLEDs. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4971-4980.	2.1	14
51	Spiro[fluorene-9,9'-thioxanthene] core based host materials for thermally activated delayed fluorescence devices. <i>Dyes and Pigments</i> , 2019, 163, 249-256.	2.0	10
52	Molecular Engineering of Sulfur-Bridged Polycyclic Emitters Towards Tunable TADF and RTP Electroluminescence. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
53	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> , 2018, 6, 29-35.	2.7	5
54	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> , 2018, 49, 16-21.	0.1	1

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55	Highly efficient and stable blue thermally activated delayed fluorescent organic light-emitting diodes. , 2022, , 117-191.		1
56	19.1: Excitonâ€Adjustable Interlayers for Efficient and Lifetime Improved Warm White Organic Lightâ€Emitting Diodes Based on a Delayed Fluorescence Assistant Host. Digest of Technical Papers SID International Symposium, 2018, 49, 197-201.	0.1	0