

# Dongcheng Chen

## List of Publications by Citations

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64

papers

3,071

citations

31

h-index

55

g-index

65

ext. papers

3,523

ext. citations

9.8

avg, IF

5.24

L-index

#	Paper	IF	Citations
64	Evaporation- and Solution-Process-Feasible Highly Efficient Thianthrene-9,9S10,10STetraoxide-Based Thermally Activated Delayed Fluorescence Emitters with Reduced Efficiency Roll-Off. <i>Advanced Materials</i> , <b>2016</b> , 28, 181-7	24	253
63	"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
62	High-Performance Color-Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603157	24	172
61	Nitrogen heterocycle-containing materials for highly efficient phosphorescent OLEDs with low operating voltage. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9565-9578	7.1	129
60	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
59	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
58	A series of new medium-bandgap conjugated polymers based on naphtho[1,2-c:5,6-c']bis(2-octyl-[1,2,3]triazole) for high-performance polymer solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 3683-8	24	118
57	Pyridine-Containing Electron-Transport Materials for Highly Efficient Blue Phosphorescent OLEDs with Ultralow Operating Voltage and Reduced Efficiency Roll-Off. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3268-3275	15.6	106
56	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
55	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
54	A highly soluble, crystalline covalent organic framework compatible with device implementation. <i>Chemical Science</i> , <b>2019</b> , 10, 1023-1028	9.4	102
53	Blue thermally activated delayed fluorescence materials based on bis(phenylsulfonyl)benzene derivatives. <i>Chemical Communications</i> , <b>2015</b> , 51, 16353-6	5.8	97
52	Highly Efficient Spiro[fluorene-9,9'-thioxanthene] Core Derived Blue Emitters and Fluorescent/Phosphorescent Hybrid White Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1100-1109	9.6	94
51	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
50	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
49	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
48	Modulation of Exciton Generation in Organic Active Planar pn Heterojunction: Toward Low Driving Voltage and High-Efficiency OLEDs Employing Conventional and Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Materials</i> , <b>2016</b> , 28, 6758-65	24	68

47	Recombination Dynamics Study on Nanostructured Perovskite Light-Emitting Devices. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801370	24	60
46	Achieving Efficient Triplet Exciton Utilization with Large $\Gamma$ 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
45	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1025-1033	20.1	50
44	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
43	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
42	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
41	Electrochemical biosensing platforms using poly-cyclodextrin and carbon nanotube composite. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 295-8	11.8	42
40	Novel cathode interlayers based on neutral alcohol-soluble small molecules with a triphenylamine core featuring polar phosphonate side chains for high-performance polymer light-emitting and photovoltaic devices. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 595-603	4.8	41
39	Efficient exciplex organic light-emitting diodes with a bipolar acceptor. <i>Organic Electronics</i> , <b>2015</b> , 25, 79-84	3.5	40
38	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
37	Pyridinium salt-based molecules as cathode interlayers for enhanced performance in polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3387	13	35
36	Highly efficient and solution-processed iridium complex for single-layer yellow electrophosphorescent diodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23005		35
35	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
34	Spiral Donor Design Strategy for Blue Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5302-5311	9.5	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> , <b>2016</b> , 52, 14454-14457	5.8	28
32	J-Aggregation Enhances the Electroluminescence Performance of a Sky-Blue Thermally Activated Delayed-Fluorescence Emitter in Nondoped Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2717-2723	9.5	27
31	Predicting Operational Stability for Organic Light-Emitting Diodes with Exciplex Cohosts. <i>Advanced Science</i> , <b>2019</b> , 6, 1802246	13.6	27
30	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

29	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
28	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
27	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
26	Combined optimization of emission layer morphology and hole-transport layer for enhanced performance of perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6169-6175	7.1	24
25	Non-noble-metal-based organic emitters for OLED applications. <i>Materials Science and Engineering Reports</i> , <b>2020</b> , 142, 100581	30.9	24
24	Three pyrido[2,3,4,5-lmn]phenanthridine derivatives and their large band gap copolymers for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 321-325	13	23
23	Rational utilization of intramolecular and intermolecular hydrogen bonds to achieve desirable electron transporting materials with high mobility and high triplet energy. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1482-1489	7.1	22
22	Highly Improved Efficiency of Deep-Blue Fluorescent Polymer Light-Emitting Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26405-13	9.5	20
21	Nonaromatic Amine Containing Exciplex for Thermally Activated Delayed Fluorescent Electroluminescence. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801554	8.1	19
20	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
19	High-performance and stable CsPbBr light-emitting diodes based on polymer additive treatment. <i>RSC Advances</i> , <b>2019</b> , 9, 27684-27691	3.7	17
18	Improving the efficiency and spectral stability of white-emitting polycarbazoles by introducing a dibenzothiophene-S,S-dioxide unit into the backbone. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 7881	7.1	17
17	Synthesis and optoelectronic properties of amino-functionalized carbazole-based conjugated polymers. <i>Science China Chemistry</i> , <b>2013</b> , 56, 1119-1128	7.9	14
16	Phosphor-doping enhanced efficiency in bilayer organic solar cells due to longer exciton diffusion length. <i>Journal of Luminescence</i> , <b>2014</b> , 151, 193-196	3.8	13
15	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
14	A water-processable organic electron-selective layer for solution-processed inverted organic solar cells. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 053304	3.4	11
13	Tuning color-correlated temperature and color rendering index of phosphorescent white polymer light-emitting diodes: Towards healthy solid-state lighting. <i>Organic Electronics</i> , <b>2016</b> , 34, 18-22	3.5	10
12	Dibenzothiophene-S,S-dioxide based medium-band-gap polymers for efficient bulk heterojunction solar cells. <i>Organic Electronics</i> , <b>2014</b> , 15, 2950-2958	3.5	8

11	Solution-processed cathode-interlayer-free deep blue organic light-emitting diodes. <i>Organic Electronics</i> , <b>2014</b> , 15, 1197-1204	3.5	8
10	TICT based fluorescent probe with excellent photostability for real-time and long-term imaging of lipid droplets. <i>Tetrahedron Letters</i> , <b>2019</b> , 60, 1880-1884	2	6
9	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
8	Conjugated polymers containing trifluoren-2-ylamine, trifluoren-2-ylbenzene and trifluoren-2-yltriazine for electroluminescence. <i>Polymer</i> , <b>2013</b> , 54, 162-173	3.9	4
7	Highly efficient non-doped single-layer blue organic light-emitting diodes based on light-emitting conjugated polymers containing trifluoren-2-ylamine and dibenzothiophene-S,S-dioxide. <i>Synthetic Metals</i> , <b>2015</b> , 205, 228-235	3.6	4
6	Alternative carrier injection/extraction inspired by electrode interlayers based on peripheral modification of the electron-rich skeleton. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3133-41	9.5	4
5	The dibenzothiophene-S,S-dioxide and spirobifluorene based small molecules promote Low roll-off and Blue organic light-emitting diodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 382, 111946	4.7	3
4	Synthesis, Properties, Calculations and Applications of Small Molecular Host Materials Containing Oxadiazole Units with Different Nitrogen and Oxygen Atom Orientations for Solution-Processable Blue Phosphorescent OLEDs. <i>Electronic Materials Letters</i> , <b>2018</b> , 14, 89-100	2.9	3
3	Influence of fullerene-based acceptor materials on the performance of indacenodithiophene-cored small molecule bulk heterojunction organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 5006-5013	2.1	1
2	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
1	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