Dongcheng Chen

List of Publications by Year
in descending order

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65 papers	3,991 citations	101543 36 h-index	114465 63 g-index
65 all docs	65 docs citations	65 times ranked	4038 citing authors

#	Article	IF	Citations
1	Spiral Donor Design Strategy for Blue Thermally Activated Delayed Fluorescence Emitters. ACS Applied Materials & Interfaces, 2021, 13, 5302-5311.	8.0	78
2	J-Aggregation Enhances the Electroluminescence Performance of a Sky-Blue Thermally Activated Delayed-Fluorescence Emitter in Nondoped Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 2717-2723.	8.0	52
3	Non-noble-metal-based organic emitters for OLED applications. Materials Science and Engineering Reports, 2020, 142, 100581.	31.8	55
4	Coâ€Interlayer Engineering toward Efficient Green Quasiâ€Twoâ€Dimensional Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910167.	14.9	52
5	Adamantaneâ€Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Lightâ€Emitting Diodes. Angewandte Chemie, 2019, 131, 592-596.	2.0	22
6	High-performance and stable CsPbBr₃ light-emitting diodes based on polymer additive treatment. RSC Advances, 2019, 9, 27684-27691.	3.6	25
7	A highly soluble, crystalline covalent organic framework compatible with device implementation. Chemical Science, 2019, 10, 1023-1028.	7.4	173
8	Incorporation of rubidium cations into blue perovskite quantum dot light-emitting diodes via FABr-modified multi-cation hot-injection method. Nanoscale, 2019, 11, 1295-1303.	5.6	36
9	Triâ€Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. Angewandte Chemie, 2019, 131, 11423-11427.	2.0	28
10	The dibenzothiophene-S,S-dioxide and spirobifluorene based small molecules promote Low roll-off and Blue organic light-emitting diodes. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111946.	3.9	6
11	TICT based fluorescent probe with excellent photostability for real-time and long-term imaging of lipid droplets. Tetrahedron Letters, 2019, 60, 1880-1884.	1.4	9
12	Triâ€Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. Angewandte Chemie - International Edition, 2019, 58, 11301-11305.	13.8	198
13	Interlayer Interaction Enhancement in Ruddlesdenâ€“Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. ACS Energy Letters, 2019, 4, 1025-1033.	17.4	64
14	Nonaromatic Amine Containing Exciplex for Thermally Activated Delayed Fluorescent Electroluminescence. Advanced Optical Materials, 2019, 7, 1801554.	7.3	26
15	Predicting Operational Stability for Organic Lightâ€Emitting Diodes with Exciplex Cohosts. Advanced Science, 2019, 6, 1802246.	11.2	42
16	Adamantaneâ€Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2019, 58, 582-586.	13.8	111
17	Engineering the Excited-States of Intermolecular Charge Transfer Emitters Towards High-Performance OLEDs. , 2019, , .		0
18	An Effective Strategy toward Highâ€Efficiency Fluorescent OLEDs by Radiative Coupling of Spatially Separated Electronâ€“Hole Pairs. Advanced Materials Interfaces, 2018, 5, 1800025.	3.7	44

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19	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. Electronic Materials Letters, 2018, 14, 89-100.	2.2	8
20	Sky-blue thermally activated delayed fluorescence material employing a diphenylethyne acceptor for organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 36-42.	5.5	23
21	Achieving Efficient Triplet Exciton Utilization with Large Î”E_{ST} and Nonobvious Delayed Fluorescence by Adjusting Excited State Energy Levels. Journal of Physical Chemistry Letters, 2018, 9, 4725-4731.	4.6	69
22	Recombination Dynamics Study on Nanostructured Perovskite Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1801370.	21.0	102
23	Enhanced performances of planar heterojunction organic light-emitting diodes via diluting an n-type transporter into a carbazole-based matrix. Journal of Materials Chemistry C, 2018, 6, 29-35.	5.5	5
24	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. Journal of Materials Chemistry C, 2017, 5, 5223-5231.	5.5	62
25	Combined optimization of emission layer morphology and hole-transport layer for enhanced performance of perovskite light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 6169-6175.	5.5	28
26	Highâ€Performance Colorâ€Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. Advanced Materials, 2017, 29, 1603157.	21.0	218
27	Influence of fullerene-based acceptor materials on the performance of indacenodithiophene-cored small molecule bulk heterojunction organic solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 5006-5013.	2.2	1
28	Engineering the excited-state properties of purely organic intramolecular and intermolecular charge transfer emitters towards high-performance fluorescent OLEDs. Journal of Materials Chemistry C, 2017, 5, 10991-11000.	5.5	14
29	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. Chemistry of Materials, 2017, 29, 8630-8636.	6.7	164
30	An ideal universal host for highly efficient full-color, white phosphorescent and TADF OLEDs with a simple and unified structure. Journal of Materials Chemistry C, 2017, 5, 10406-10416.	5.5	63
31	Fluorescent Organic Planar pn Heterojunction Lightâ€Emitting Diodes with Simplified Structure, Extremely Low Driving Voltage, and High Efficiency. Advanced Materials, 2016, 28, 239-244.	21.0	115
32	Highly efficient blue and warm white organic light-emitting diodes with a simplified structure. Nanotechnology, 2016, 27, 124001.	2.6	26
33	Evaporationâ€and Solutionâ€Processâ€Feasible Highly Efficient Thianthreneâ€9,9â€²,10,10â€²â€Tetraoxideâ€Based Thermally Activated Delayed Fluorescence Emitters with Reduced Efficiency Rollâ€Off. Advanced Materials, 2016, 28, 181-187.	21.0	291
34	Tuning color-correlated temperature and color rendering index of phosphorescent white polymer light-emitting diodes: Towards healthy solid-state lighting. Organic Electronics, 2016, 34, 18-22.	2.6	12
35	Polarity-Tunable Host Materials and Their Applications in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 27920-27930.	8.0	59
36	Structure-simplified and highly efficient deep blue organic light-emitting diodes with reduced efficiency roll-off at extremely high luminance. Chemical Communications, 2016, 52, 14454-14457.	4.1	29

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37	Modulation of Exciton Generation in Organic Active Planar pn Heterojunction: Toward Low Driving Voltage and Highâ€Efficiency OLEDs Employing Conventional and Thermally Activated Delayed Fluorescent Emitters. Advanced Materials, 2016, 28, 6758-6765.	21.0	77
38	Highâ€Efficiency WOLEDs with High Colorâ€Rendering Index based on a Chromaticityâ€Adjustable Yellow Thermally Activated Delayed Fluorescence Emitter. Advanced Materials, 2016, 28, 4614-4619.	21.0	120
39	Rational utilization of intramolecular and intermolecular hydrogen bonds to achieve desirable electron transporting materials with high mobility and high triplet energy. Journal of Materials Chemistry C, 2016, 4, 1482-1489.	5.5	23
40	â€œRate-limited effectâ€•of reverse intersystem crossing process: the key for tuning thermally activated delayed fluorescence lifetime and efficiency roll-off of organic light emitting diodes. Chemical Science, 2016, 7, 4264-4275.	7.4	212
41	Structureâ€“Performance Investigation of Thioxanthone Derivatives for Developing Color Tunable Highly Efficient Thermally Activated Delayed Fluorescence Emitters. ACS Applied Materials & Interfaces, 2016, 8, 8627-8636.	8.0	89
42	Deep blue fluorophores incorporating sulfone-locked triphenylamine: the key for highly efficient fluorescenceâ€“phosphorescence hybrid white OLEDs with simplified structure. Journal of Materials Chemistry C, 2015, 3, 6986-6996.	5.5	48
43	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. Synthetic Metals, 2015, 205, 228-235.	3.9	5
44	Study of Configuration Differentia and Highly Efficient, Deepâ€Blue, Organic Lightâ€Emitting Diodes Based on Novel Naphtho[1,2â€d]imidazole Derivatives. Advanced Functional Materials, 2015, 25, 5190-5198.	14.9	91
45	Alternative Carrier Injection/Extraction Inspired by Electrode Interlayers Based on Peripheral Modification of the Electron-Rich Skeleton. ACS Applied Materials & Interfaces, 2015, 7, 3133-3141.	8.0	4
46	Highly Efficient Spiro[fluorene-9,9â€²-thioxanthene] Core Derived Blue Emitters and Fluorescent/Phosphorescent Hybrid White Organic Light-Emitting Diodes. Chemistry of Materials, 2015, 27, 1100-1109.	6.7	107
47	Efficient exciplex organic light-emitting diodes with a bipolar acceptor. Organic Electronics, 2015, 25, 79-84.	2.6	53
48	Highly Improved Efficiency of Deep-Blue Fluorescent Polymer Light-Emitting Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Interfaces, 2015, 7, 26405-26413.	8.0	21
49	Blue thermally activated delayed fluorescence materials based on bis(phenylsulfonyl)benzene derivatives. Chemical Communications, 2015, 51, 16353-16356.	4.1	112
50	9,9-Diphenyl-thioxanthene derivatives as host materials for highly efficient blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 9999-10006.	5.5	34
51	Pyridineâ€Containing Electronâ€Transport Materials for Highly Efficient Blue Phosphorescent OLEDs with Ultralow Operating Voltage and Reduced Efficiency Rollâ€Off. Advanced Functional Materials, 2014, 24, 3268-3275.	14.9	127
52	A water-processable organic electron-selective layer for solution-processed inverted organic solar cells. Applied Physics Letters, 2014, 104, 053304.	3.3	12
53	Three pyrido[2,3,4,5-lmn]phenanthridine derivatives and their large band gap copolymers for organic solar cells. Journal of Materials Chemistry A, 2014, 2, 321-325.	10.3	26
54	Improving the efficiency and spectral stability of white-emitting polycarbazoles by introducing a dibenzothiophene-S,S-dioxide unit into the backbone. Journal of Materials Chemistry C, 2014, 2, 7881.	5.5	17

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55	Nitrogen heterocycle-containing materials for highly efficient phosphorescent OLEDs with low operating voltage. Journal of Materials Chemistry C, 2014, 2, 9565-9578.	5.5	152
56	Phosphor-doping enhanced efficiency in bilayer organic solar cells due to longer exciton diffusion length. Journal of Luminescence, 2014, 151, 193-196.	3.1	15
57	Dibenzothiophene- S,S -dioxide based medium-band-gap polymers for efficient bulk heterojunction solar cells. Organic Electronics, 2014, 15, 2950-2958.	2.6	8
58	Solution-processed cathode-interlayer-free deep blue organic light-emitting diodes. Organic Electronics, 2014, 15, 1197-1204.	2.6	8
59	Synthesis and optoelectronic properties of amino-functionalized carbazole-based conjugated polymers. Science China Chemistry, 2013, 56, 1119-1128.	8.2	17
60	Pyridinium salt-based molecules as cathode interlayers for enhanced performance in polymer solar cells. Journal of Materials Chemistry A, 2013, 1, 3387.	10.3	43
61	Conjugated polymers containing trifluoren-2-ylamine, trifluoren-2-ylbenzene and trifluoren-2-yltriazine for electroluminescence. Polymer, 2013, 54, 162-173.	3.8	4
62	Novel Cathode Interlayers Based on Neutral Alcoholâ€Soluble Small Molecules with a Triphenylamine Core Featuring Polar Phosphonate Side Chains for Highâ€Performance Polymer Lightâ€Emitting and Photovoltaic Devices. Macromolecular Rapid Communications, 2013, 34, 595-603.	3.9	44
63	A Series of New Mediumâ€Bandgap Conjugated Polymers Based on Naphtho[1,2â€c:5,6â€c]bis(2â€octylâ€[1,2,3]triazole) for Highâ€Performance Polymer Solar Cells. Advanced Materials, 2013, 25, 3683-3688.	21.0	125
64	Highly efficient and solution-processed iridium complex for single-layer yellow electrophosphorescent diodes. Journal of Materials Chemistry, 2012, 22, 23005.	6.7	40
65	Electrochemical biosensing platforms using poly-cyclodextrin and carbon nanotube composite. Biosensors and Bioelectronics, 2010, 26, 295-298.	10.1	47