# Dongcheng Chen

List of Publications by Year
in descending order

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|---|---|---|---|
| 65 papers | 3,991 citations | 101384 36 h-index | 114278 63 g-index |
| 65 all docs | 65 docs citations | 65 times ranked | 4038 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 11.1 | 291 |
| 2 | Highâ€Performance Colorâ€Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. Advanced Materials, 2017, 29, 1603157. | 11.1 | 218 |
| 3 | 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. | 3.7 | 212 |
| 4 | Triâ€Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. Angewandte Chemie - International Edition, 2019, 58, 11301-11305. | 7.2 | 198 |
| 5 | A highly soluble, crystalline covalent organic framework compatible with device implementation. Chemical Science, 2019, 10, 1023-1028. | 3.7 | 173 |
| 6 | Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. Chemistry of Materials, 2017, 29, 8630-8636. | 3.2 | 164 |
| 7 | Nitrogen heterocycle-containing materials for highly efficient phosphorescent OLEDs with low operating voltage. Journal of Materials Chemistry C, 2014, 2, 9565-9578. | 2.7 | 152 |
| 8 | 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. | 7.8 | 127 |
| 9 | 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. | 11.1 | 125 |
| 10 | 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. | 11.1 | 120 |
| 11 | Fluorescent Organic Planar pn Heterojunction Lightâ€Emitting Diodes with Simplified Structure, Extremely Low Driving Voltage, and High Efficiency. Advanced Materials, 2016, 28, 239-244. | 11.1 | 115 |
| 12 | Blue thermally activated delayed fluorescence materials based on bis(phenylsulfonyl)benzene derivatives. Chemical Communications, 2015, 51, 16353-16356. | 2.2 | 112 |
| 13 | Adamantaneâ€Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2019, 58, 582-586. | 7.2 | 111 |
| 14 | 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. | 3.2 | 107 |
| 15 | Recombination Dynamics Study on Nanostructured Perovskite Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1801370. | 11.1 | 102 |
| 16 | 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. | 7.8 | 91 |
| 17 | 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. | 4.0 | 89 |
| 18 | Spiral Donor Design Strategy for Blue Thermally Activated Delayed Fluorescence Emitters. ACS Applied Materials & Interfaces, 2021, 13, 5302-5311. | 4.0 | 78 |

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|---|---|---|---|
| 19 | 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. | 11.1 | 77 |
| 20 | Achieving Efficient Triplet Exciton Utilization with Large Î”E<sub>ST</sub> and Nonobvious Delayed Fluorescence by Adjusting Excited State Energy Levels. Journal of Physical Chemistry Letters, 2018, 9, 4725-4731. | 2.1 | 69 |
| 21 | Interlayer Interaction Enhancement in Ruddlesdenâ€“Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. ACS Energy Letters, 2019, 4, 1025-1033. | 8.8 | 64 |
| 22 | 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. | 2.7 | 63 |
| 23 | 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. | 2.7 | 62 |
| 24 | Polarity-Tunable Host Materials and Their Applications in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 27920-27930. | 4.0 | 59 |
| 25 | Non-noble-metal-based organic emitters for OLED applications. Materials Science and Engineering Reports, 2020, 142, 100581. | 14.8 | 55 |
| 26 | Efficient exciplex organic light-emitting diodes with a bipolar acceptor. Organic Electronics, 2015, 25, 79-84. | 1.4 | 53 |
| 27 | 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. | 4.0 | 52 |
| 28 | Coâ€Interlayer Engineering toward Efficient Green Quasiâ€Twoâ€Dimensional Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910167. | 7.8 | 52 |
| 29 | 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. | 2.7 | 48 |
| 30 | Electrochemical biosensing platforms using poly-cyclodextrin and carbon nanotube composite. Biosensors and Bioelectronics, 2010, 26, 295-298. | 5.3 | 47 |
| 31 | 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. | 2.0 | 44 |
| 32 | An Effective Strategy toward Highâ€Efficiency Fluorescent OLEDs by Radiative Coupling of Spatially Separated Electronâ€“Hole Pairs. Advanced Materials Interfaces, 2018, 5, 1800025. | 1.9 | 44 |
| 33 | Pyridinium salt-based molecules as cathode interlayers for enhanced performance in polymer solar cells. Journal of Materials Chemistry A, 2013, 1, 3387. | 5.2 | 43 |
| 34 | Predicting Operational Stability for Organic Lightâ€Emitting Diodes with Exciplex Cohosts. Advanced Science, 2019, 6, 1802246. | 5.6 | 42 |
| 35 | Highly efficient and solution-processed iridium complex for single-layer yellow electrophosphorescent diodes. Journal of Materials Chemistry, 2012, 22, 23005. | 6.7 | 40 |
| 36 | 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. | 2.8 | 36 |

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| 37 | 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. | 2.7 | 34 |
| 38 | 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. | 2.2 | 29 |
| 39 | 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. | 2.7 | 28 |
| 40 | Triâ€Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. Angewandte Chemie, 2019, 131, 11423-11427. | 1.6 | 28 |
| 41 | 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. | 5.2 | 26 |
| 42 | Highly efficient blue and warm white organic light-emitting diodes with a simplified structure. Nanotechnology, 2016, 27, 124001. | 1.3 | 26 |
| 43 | Nonaromatic Amine Containing Exciplex for Thermally Activated Delayed Fluorescent Electroluminescence. Advanced Optical Materials, 2019, 7, 1801554. | 3.6 | 26 |
| 44 | High-performance and stable CsPbBr<sub>3</sub> light-emitting diodes based on polymer additive treatment. RSC Advances, 2019, 9, 27684-27691. | 1.7 | 25 |
| 45 | 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. | 2.7 | 23 |
| 46 | 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. | 2.7 | 23 |
| 47 | Adamantaneâ€Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Lightâ€Emitting Diodes. Angewandte Chemie, 2019, 131, 592-596. | 1.6 | 22 |
| 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. | 4.0 | 21 |
| 49 | Synthesis and optoelectronic properties of amino-functionalized carbazole-based conjugated polymers. Science China Chemistry, 2013, 56, 1119-1128. | 4.2 | 17 |
| 50 | 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. | 2.7 | 17 |
| 51 | Phosphor-doping enhanced efficiency in bilayer organic solar cells due to longer exciton diffusion length. Journal of Luminescence, 2014, 151, 193-196. | 1.5 | 15 |
| 52 | 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. | 2.7 | 14 |
| 53 | A water-processable organic electron-selective layer for solution-processed inverted organic solar cells. Applied Physics Letters, 2014, 104, 053304. | 1.5 | 12 |
| 54 | 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. | 1.4 | 12 |

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|---|---|---|---|
| 55 | TICT based fluorescent probe with excellent photostability for real-time and long-term imaging of lipid droplets. Tetrahedron Letters, 2019, 60, 1880-1884. | 0.7 | 9 |
| 56 | Dibenzothiophene- S,S -dioxide based medium-band-gap polymers for efficient bulk heterojunction solar cells. Organic Electronics, 2014, 15, 2950-2958. | 1.4 | 8 |
| 57 | Solution-processed cathode-interlayer-free deep blue organic light-emitting diodes. Organic Electronics, 2014, 15, 1197-1204. | 1.4 | 8 |
| 58 | 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. | 1.0 | 8 |
| 59 | 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. | 2.0 | 6 |
| 60 | 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. | 2.1 | 5 |
| 61 | 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. | 2.7 | 5 |
| 62 | Conjugated polymers containing trifluoren-2-ylamine, trifluoren-2-ylbenzene and trifluoren-2-yltriazine for electroluminescence. Polymer, 2013, 54, 162-173. | 1.8 | 4 |
| 63 | 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. | 4.0 | 4 |
| 64 | 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. | 1.1 | 1 |
| 65 | Engineering the Excited-States of Intermolecular Charge Transfer Emitters Towards High-Performance OLEDs. , 2019, , . | | 0 |