# Lian Duan

List of Publications by Year
in descending order



| | | 15466 | 23472 |
|---|---|---|---|
| 238 papers | 14,605 citations | 65 h-index | 111 g-index |
| 241 all docs | 241 docs citations | 241 times ranked | 8839 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Solution processable small molecules for organic light-emitting diodes. Journal of Materials Chemistry, 2010, 20, 6392. | 6.7 | 555 |
| 2 | Highâ€Efficiency Fluorescent Organic Lightâ€Emitting Devices Using Sensitizing Hosts with a Small Singletâ€"Triplet Exchange Energy. Advanced Materials, 2014, 26, 5050-5055. | 11.1 | 496 |
| 3 | Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. Materials Horizons, 2016, 3, 145-151. | 6.4 | 430 |
| 4 | Strategies to Design Bipolar Small Molecules for OLEDs: Donorâ€Acceptor Structure and Nonâ€Donorâ€Acceptor Structure. Advanced Materials, 2011, 23, 1137-1144. | 11.1 | 399 |
| 5 | Recent progress in solution processable TADF materials for organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 5577-5596. | 2.7 | 370 |
| 6 | Multiâ€Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. Angewandte Chemie - International Edition, 2019, 58, 16912-16917. | 7.2 | 356 |
| 7 | Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. Angewandte Chemie - International Edition, 2018, 57, 2889-2893. | 7.2 | 350 |
| 8 | Toward Highly Efficient Solidâ€State White Lightâ€Emitting Electrochemical Cells: Blueâ€Green to Red Emitting Cationic Iridium Complexes with Imidazoleâ€Type Ancillary Ligands. Advanced Functional Materials, 2009, 19, 2950-2960. | 7.8 | 298 |
| 9 | Solid-state light-emitting electrochemical cells based on ionic iridium(iii) complexes. Journal of Materials Chemistry, 2012, 22, 4206. | 6.7 | 284 |
| 10 | Blueâ€Emitting Cationic Iridium Complexes with 2â€(1<i>H</i>â€Pyrazolâ€1â€yl)pyridine as the Ancillary Ligand for Efficient Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2008, 18, 2123-2131. | 7.8 | 276 |
| 11 | Mixed halide perovskites for spectrally stable and high-efficiency blue light-emitting diodes. Nature Communications, 2021, 12, 361. | 5.8 | 268 |
| 12 | Multiâ€Resonance Deepâ€Red Emitters with Shallow Potentialâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie - International Edition, 2021, 60, 20498-20503. | 7.2 | 259 |
| 13 | Efficient and Stable Deepâ€Blue Fluorescent Organic Lightâ€Emitting Diodes Employing a Sensitizer with Fast Triplet Upconversion. Advanced Materials, 2020, 32, e1908355. | 11.1 | 242 |
| 14 | Recent Progress in Ionic Iridium(III) Complexes for Organic Electronic Devices. Advanced Materials, 2017, 29, 1603253. | 11.1 | 224 |
| 15 | Versatile Indolocarbazoleâ€Isomer Derivatives as Highly Emissive Emitters and Ideal Hosts for Thermally Activated Delayed Fluorescent OLEDs with Alleviated Efficiency Rollâ€Off. Advanced Materials, 2018, 30, 1705406. | 11.1 | 217 |
| 16 | Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Azaâ€Fused Multiâ€Resonance Emitter. Angewandte Chemie - International Edition, 2020, 59, 17499-17503. | 7.2 | 211 |
| 17 | Highly efficient blue thermally activated delayed fluorescent OLEDs with record-low driving voltages utilizing high triplet energy hosts with small singletâ€"triplet splittings. Chemical Science, 2016, 7, 3355-3363. | 3.7 | 195 |
| 18 | Axially Chiral TADFâ€Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. Angewandte Chemie - International Edition, 2020, 59, 3500-3504. | 7.2 | 181 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Blocking Energyâ€Loss Pathways for Ideal Fluorescent Organic Lightâ€Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. Advanced Materials, 2018, 30, 1705250. | 11.1 | 177 |
| 20 | Highly efficient hybrid warm white organic light-emitting diodes using a blue thermally activated delayed fluorescence emitter: exploiting the external heavy-atom effect. Light: Science and Applications, 2015, 4, e232-e232. | 7.7 | 171 |
| 21 | Highly Efficient Blue-Green and White Light-Emitting Electrochemical Cells Based on a Cationic Iridium Complex with a Bulky Side Group. Chemistry of Materials, 2010, 22, 3535-3542. | 3.2 | 166 |
| 22 | Approaching Nearly 40% External Quantum Efficiency in Organic Light Emitting Diodes Utilizing a Green Thermally Activated Delayed Fluorescence Emitter with an Extended Linear Donorâ€"Acceptorâ€"Donor Structure. Advanced Materials, 2021, 33, e2103293. | 11.1 | 143 |
| 23 | Molecular Understanding of the Chemical Stability of Organic Materials for OLEDs: A Comparative Study on Sulfonyl, Phosphine-Oxide, and Carbonyl-Containing Host Materials. Journal of Physical Chemistry C, 2014, 118, 7569-7578. | 1.5 | 142 |
| 24 | Sterically Wrapped Multiple Resonance Fluorophors for Suppression of Concentration Quenching and Spectrum Broadening. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 140 |
| 25 | Homoleptic Facial Ir(III) Complexes via Facile Synthesis for High-Efficiency and Low-Roll-Off Near-Infrared Organic Light-Emitting Diodes over 750 nm. Chemistry of Materials, 2017, 29, 4775-4782. | 3.2 | 138 |
| 26 | Highly efficient and color-stable hybrid warm white organic light-emitting diodes using a blue material with thermally activated delayed fluorescence. Journal of Materials Chemistry C, 2014, 2, 8191-8197. | 2.7 | 131 |
| 27 | Emerging Selfâ€Emissive Technologies for Flexible Displays. Advanced Materials, 2020, 32, e1902391. | 11.1 | 131 |
| 28 | Highly Efficient Simplified Single-Emitting-Layer Hybrid WOLEDs with Low Roll-off and Good Color Stability through Enhanced FÃ¶rster Energy Transfer. ACS Applied Materials & Interfaces, 2015, 7, 28693-28700. | 4.0 | 128 |
| 29 | Label-free electrochemical DNA biosensor array for simultaneous detection of the HIV-1 and HIV-2 oligonucleotides incorporating different hairpin-DNA probes and redox indicator. Biosensors and Bioelectronics, 2010, 25, 1088-1094. | 5.3 | 124 |
| 30 | High-triplet-energy tri-carbazole derivatives as host materials for efficient solution-processed blue phosphorescent devices. Journal of Materials Chemistry, 2011, 21, 4918. | 6.7 | 122 |
| 31 | Towards High Efficiency and Low Rollâ€Off Orange Electrophosphorescent Devices by Fine Tuning Singlet and Triplet Energies of Bipolar Hosts Based on Indolocarbazole/1, 3, 5â€Triazine Hybrids. Advanced Functional Materials, 2014, 24, 3551-3561. | 7.8 | 117 |
| 32 | Understanding and Manipulating the Interplay of Wideâ€Energyâ€Gap Host and TADF Sensitizer in Highâ€Performance Fluorescence OLEDs. Advanced Materials, 2019, 31, e1901923. | 11.1 | 116 |
| 33 | High Throughput Sequencing Identifies MicroRNAs Mediating Î±-Synuclein Toxicity by Targeting Neuroactive-Ligand Receptor Interaction Pathway in Early Stage of Drosophila Parkinson's Disease Model. PLoS ONE, 2015, 10, e0137432. | 1.1 | 113 |
| 34 | Simultaneous Enhancement of Efficiency and Stability of Phosphorescent OLEDs Based on Efficient FÃ¶rster Energy Transfer from Interface Exciplex. ACS Applied Materials & Interfaces, 2016, 8, 3825-3832. | 4.0 | 112 |
| 35 | Ultrahighâ€Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W<sup>âˆ’1</sup> at Luminance of 10 000 cd m<sup>âˆ’2</sup>. Advanced Materials, 2017, 29, 1702847. | 11.1 | 112 |
| 36 | Highly Efficient Full-Color Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes: Extremely Low Efficiency Roll-Off Utilizing a Host with Small Singletâ€"Triplet Splitting. ACS Applied Materials & Interfaces, 2017, 9, 4769-4777. | 4.0 | 107 |

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|---|---|---|---|
| 37 | Indolo[3,2,1â€‹<i>jk</i>]carbazole Embedded Multipleâ€Resonance Fluorophors for Narrowband Deepâ€blue Electroluminescence with EQEâ‰ˆ34.7â€‰% and CIE<sub>y</sub>â‰ˆ0.085. Angewandte Chemie - International Edition, 2021, 60, 12269-12273. | 7.2 | 106 |
| 38 | Elucidation of the electron injection mechanism of evaporated cesium carbonate cathode interlayer for organic light-emitting diodes. Applied Physics Letters, 2007, 90, 012119. | 1.5 | 101 |
| 39 | Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Throughâ€space Charge Transfers. Angewandte Chemie - International Edition, 2021, 60, 23771-23776. | 7.2 | 100 |
| 40 | High performance low-voltage organic phototransistors: interface modification and the tuning of electrical, photosensitive and memory properties. Journal of Materials Chemistry, 2012, 22, 11836. | 6.7 | 99 |
| 41 | Enhanced stability of blue-green light-emitting electrochemical cells based on a cationic iridium complex with 2-(1-phenyl-1H-pyrazol-3-yl)pyridine as the ancillary ligand. Chemical Communications, 2011, 47, 6467. | 2.2 | 98 |
| 42 | Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. Advanced Materials, 2016, 28, 106-110. | 11.1 | 98 |
| 43 | Fusion of Multiâ€Resonance Fragment with Conventional Polycyclic Aromatic Hydrocarbon for Nearly BT.2020 Green Emission. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 95 |
| 44 | Controlling the Recombination Zone of White Organic Lightâ€Emitting Diodes with Extremely Long Lifetimes. Advanced Functional Materials, 2011, 21, 3540-3545. | 7.8 | 94 |
| 45 | Efficient n-type dopants with extremely low doping ratios for high performance inverted perovskite solar cells. Energy and Environmental Science, 2016, 9, 3424-3428. | 15.6 | 94 |
| 46 | A Pyridineâ€Containing Anthracene Derivative with High Electron and Hole Mobilities for Highly Efficient and Stable Fluorescent Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2011, 21, 1881-1886. | 7.8 | 93 |
| 47 | Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. ACS Applied Materials & Interfaces, 2018, 10, 17327-17334. | 4.0 | 91 |
| 48 | Multiâ€Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. Angewandte Chemie, 2019, 131, 17068-17073. | 1.6 | 91 |
| 49 | Towards ideal electrophosphorescent devices with low dopant concentrations: the key role of triplet up-conversion. Journal of Materials Chemistry C, 2014, 2, 8983-8989. | 2.7 | 90 |
| 50 | High-efficiency and low efficiency roll-off near-infrared fluorescent OLEDs through triplet fusion. Chemical Science, 2016, 7, 2888-2895. | 3.7 | 88 |
| 51 | High-efficiency near-infrared organic light-emitting devices based on an iridium complex with negligible efficiency roll-off. Journal of Materials Chemistry C, 2013, 1, 6446. | 2.7 | 87 |
| 52 | Extremely low driving voltage electrophosphorescent green organic light-emitting diodes based on a host material with small singletâ€"triplet exchange energy without p- or n-doping layer. Organic Electronics, 2013, 14, 260-266. | 1.4 | 85 |
| 53 | Highly-efficient blue electroluminescence based on two emitter isomers. Applied Physics Letters, 2004, 84, 1513-1515. | 1.5 | 81 |
| 54 | Deep-blue electroluminescence from nondoped and doped organic light-emitting diodes (OLEDs) based on a new monoaza[6]helicene. RSC Advances, 2015, 5, 75-84. | 1.7 | 81 |

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| 55 | Efficient single layer solution-processed blue-emitting electrophosphorescent devices based on a small-molecule host. Applied Physics Letters, 2008, 92, 263301. | 1.5 | 79 |
| 56 | Achilles Heels of Phosphine Oxide Materials for OLEDs: Chemical Stability and Degradation Mechanism of a Bipolar Phosphine Oxide/Carbazole Hybrid Host Material. Journal of Physical Chemistry C, 2012, 116, 19451-19457. | 1.5 | 79 |
| 57 | One-Dimensional All-Inorganic K<sub>2</sub>CuBr<sub>3</sub> with Violet Emission as Efficient X-ray Scintillators. ACS Applied Electronic Materials, 2020, 2, 2242-2249. | 2.0 | 77 |
| 58 | High-efficiency orange to near-infrared emissions from bis-cyclometalated iridium complexes with phenyl-benzoquinoline isomers as ligands. Journal of Materials Chemistry, 2009, 19, 6573. | 6.7 | 76 |
| 59 | Highly efficient solution-processed blue-green to red and white light-emitting diodes using cationic iridium complexes as dopants. Organic Electronics, 2010, 11, 1185-1191. | 1.4 | 76 |
| 60 | A Ï€â€"D and Ï€â€"A Exciplexâ€Forming Host for Highâ€Efficiency and Longâ€Lifetime Singleâ€Emissiveâ€Layer Fluorescent White Organic Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2004040. | 11.1 | 76 |
| 61 | Sterically Shielded Electron Transporting Material with Nearly 100% Internal Quantum Efficiency and Long Lifetime for Thermally Activated Delayed Fluorescent and Phosphorescent OLEDs. ACS Applied Materials & Interfaces, 2017, 9, 19040-19047. | 4.0 | 75 |
| 62 | Universal Trap Effect in Carrier Transport of Disordered Organic Semiconductors: Transition from Shallow Trapping to Deep Trapping. Journal of Physical Chemistry C, 2014, 118, 10651-10660. | 1.5 | 74 |
| 63 | Tough, stable and self-healing luminescent perovskite-polymer matrix applicable to all harsh aquatic environments. Nature Communications, 2022, 13, 1338. | 5.8 | 73 |
| 64 | Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Azaâ€Fused Multiâ€Resonance Emitter. Angewandte Chemie, 2020, 132, 17652-17656. | 1.6 | 72 |
| 65 | Novel star-shaped host materials for highly efficient solution-processed phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2010, 20, 6131. | 6.7 | 71 |
| 66 | Modulation of FÃ¶rster and Dexter Interactions in Singleâ€Emissiveâ€Layer Allâ€Fluorescent WOLEDs for Improved Efficiency and Extended Lifetime. Advanced Functional Materials, 2020, 30, 1907083. | 7.8 | 70 |
| 67 | Highâ€stability organic redâ€light photodetector for narrowband applications. Laser and Photonics Reviews, 2016, 10, 473-480. | 4.4 | 69 |
| 68 | Highâ€Performance Fluorescent Organic Lightâ€Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electronâ€Transporting Material. Advanced Materials, 2018, 30, e1707590. | 11.1 | 68 |
| 69 | High-Brightness Perovskite Light-Emitting Diodes Based on FAPbBr<sub>3</sub> Nanocrystals with Rationally Designed Aromatic Ligands. ACS Energy Letters, 2021, 6, 2395-2403. | 8.8 | 67 |
| 70 | Impacts of Sn precursors on solution-processed amorphous zincâ€"tin oxide films and their transistors. RSC Advances, 2012, 2, 5307. | 1.7 | 66 |
| 71 | Synthesis, Characterization, and Photophysical and Electroluminescent Properties of Blue-Emitting Cationic Iridium(III) Complexes Bearing Nonconjugated Ligands. Inorganic Chemistry, 2014, 53, 6596-6606. | 1.9 | 66 |
| 72 | Bipolar Host with Multielectron Transport Benzimidazole Units for Low Operating Voltage and High Power Efficiency Solution-Processed Phosphorescent OLEDs. ACS Applied Materials & Interfaces, 2015, 7, 7303-7314. | 4.0 | 60 |

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|---|---|---|---|
| 73 | Strategically Modulating Carriers and Excitons for Efficient and Stable Ultrapureâ€Green Fluorescent OLEDs with a Sterically Hindered BODIPY Dopant. Advanced Optical Materials, 2020, 8, 2000483. | 3.6 | 60 |
| 74 | Efficient solution-processed electrophosphorescent devices using ionic iridium complexes as the dopants. Organic Electronics, 2009, 10, 152-157. | 1.4 | 59 |
| 75 | Bright single-active layer small-molecular organic light-emitting diodes with a polytetrafluoroethylene barrier. Applied Physics Letters, 2003, 82, 155-157. | 1.5 | 58 |
| 76 | Multiâ€Resonance Deepâ€Red Emitters with Shallow Potentialâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie, 2021, 133, 20661-20666. | 1.6 | 58 |
| 77 | Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. Angewandte Chemie, 2018, 130, 2939-2943. | 1.6 | 57 |
| 78 | Star-shaped dendritic hosts based on carbazole moieties for highly efficient blue phosphorescent OLEDs. Journal of Materials Chemistry, 2012, 22, 12016. | 6.7 | 56 |
| 79 | Accelerating Radiative Decay in Blue Throughâ€Space Charge Transfer Emitters by Minimizing the Faceâ€toâ€Face Donorâ€"Acceptor Distances. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 56 |
| 80 | Direct optical patterning of perovskite nanocrystals with ligand cross-linkers. Science Advances, 2022, 8, eabm8433. | 4.7 | 54 |
| 81 | Increased phosphorescent quantum yields of cationic iridium(<scp>iii</scp>) complexes by wisely controlling the counter anions. Chemical Communications, 2014, 50, 530-532. | 2.2 | 51 |
| 82 | Colour-tunable asymmetric cyclometalated Pt(<scp>ii</scp>) complexes and STM-assisted stability assessment of ancillary ligands for OLEDs. Journal of Materials Chemistry C, 2016, 4, 2560-2565. | 2.7 | 51 |
| 83 | New Insights into Tunable Volatility of Ionic Materials through Counterâ€Ion Control. Advanced Functional Materials, 2016, 26, 3438-3445. | 7.8 | 51 |
| 84 | IbSIMT1, a novel salt-induced methyltransferase gene from Ipomoea batatas, is involved in salt tolerance. Plant Cell, Tissue and Organ Culture, 2015, 120, 701-715. | 1.2 | 50 |
| 85 | Longâ€Lived and Highly Efficient TADFâ€PhOLED with â€œ(A)<sub>n</sub>â€"Dâ€"(A)<sub>n</sub>â€•Structured Terpyridine Electronâ€Transporting Material. Advanced Functional Materials, 2018, 28, 1800429. | 7.8 | 49 |
| 86 | High Performance Thermally Activated Delayed Fluorescence Sensitized Organic Lightâ€Emitting Diodes. Chemical Record, 2019, 19, 1611-1623. | 2.9 | 49 |
| 87 | Progress on Lightâ€Emitting Electrochemical Cells toward Blue Emission, High Efficiency, and Long Lifetime. Advanced Functional Materials, 2020, 30, 1907156. | 7.8 | 49 |
| 88 | Highâ€Efficiency Nearâ€Infrared Fluorescent Organic Lightâ€Emitting Diodes with Small Efficiency Rollâ€Off: A Combined Design from Emitters to Devices. Advanced Functional Materials, 2017, 27, 1703283. | 7.8 | 48 |
| 89 | Review on photo- and electrical aging mechanisms for neutral excitons and ions in organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 803-820. | 2.7 | 48 |
| 90 | A Comparison Study of the Organic Small Molecular Thin Films Prepared by Solution Process and Vacuum Deposition: Roughness, Hydrophilicity, Absorption, Photoluminescence, Density, Mobility, and Electroluminescence. Journal of Physical Chemistry C, 2011, 115, 14278-14284. | 1.5 | 47 |

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| 91 | Decolorization of Acid Orange II dye by peroxymonosulfate activated with magnetic Fe<sub>3</sub>O<sub>4</sub>@C/Co nanocomposites. RSC Advances, 2015, 5, 76862-76874. | 1.7 | 47 |
| 92 | Unveiling the Role of Langevin and Trap-Assisted Recombination in Long Lifespan OLEDs Employing Thermally Activated Delayed Fluorophores. ACS Applied Materials & Interfaces, 2019, 11, 1096-1108. | 4.0 | 47 |
| 93 | Enhancing spin-orbital coupling in deep-blue/blue TADF emitters by minimizing the distance from the heteroatoms in donors to acceptors. Chemical Engineering Journal, 2021, 420, 127591. | 6.6 | 47 |
| 94 | TADF sensitization targets deep-blue. Nature Photonics, 2021, 15, 173-174. | 15.6 | 47 |
| 95 | Air Stable Organic Salt As an n-Type Dopant for Efficient and Stable Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 6444-6450. | 4.0 | 46 |
| 96 | A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. Journal of Materials Chemistry C, 2018, 6, 745-753. | 2.7 | 45 |
| 97 | Charge Transport in Mixed Organic Disorder Semiconductors: Trapping, Scattering, and Effective Energetic Disorder. Journal of Physical Chemistry C, 2012, 116, 19748-19754. | 1.5 | 44 |
| 98 | Thermally Activated Delayed Fluorescent Materials Combining Intra- and Intermolecular Charge Transfers. ACS Applied Materials & Interfaces, 2019, 11, 7192-7198. | 4.0 | 44 |
| 99 | Deep-blue organic light-emitting diodes based on a doublet dâ€“f transition cerium(III) complex with 100% exciton utilization efficiency. Light: Science and Applications, 2020, 9, 157. | 7.7 | 43 |
| 100 | Exploiting p-Type Delayed Fluorescence in Hybrid White OLEDs: Breaking the Trade-off between High Device Efficiency and Long Lifetime. ACS Applied Materials & Interfaces, 2016, 8, 23197-23203. | 4.0 | 42 |
| 101 | Making silver a stronger n-dopant than cesium via in situ coordination reaction for organic electronics. Nature Communications, 2019, 10, 866. | 5.8 | 42 |
| 102 | A new type of light-emitting naphtho[2,3-c][1,2,5]thiadiazole derivatives: synthesis, photophysical characterization and transporting properties. Journal of Materials Chemistry, 2008, 18, 806. | 6.7 | 41 |
| 103 | Efficient nâ€Dopants and Their Roles in Organic Electronics. Advanced Optical Materials, 2018, 6, 1800536. | 3.6 | 41 |
| 104 | Pure red electroluminescence from a host material of binuclear gallium complex. Applied Physics Letters, 2002, 81, 4913-4915. | 1.5 | 40 |
| 105 | Exciplex System with Increased Donorâ€“Acceptor Distance as the Sensitizing Host for Conventional Fluorescent OLEDs with High Efficiency and Extremely Low Roll-Off. ACS Applied Materials & Interfaces, 2019, 11, 22595-22602. | 4.0 | 40 |
| 106 | Triazolotriazine-based thermally activated delayed fluorescence materials for highly efficient fluorescent organic light-emitting diodes (TSF-OLEDs). Science Bulletin, 2021, 66, 441-448. | 4.3 | 40 |
| 107 | Nitrogenâ€Embedded Multiâ€Resonance Heteroaromatics with Prolonged Homogeneous Hexatomic Rings. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 40 |
| 108 | Highly Efficient and Stable Blue Organic Lightâ€Emitting Diodes based on Thermally Activated Delayed Fluorophor with Donorâ€Voidâ€Acceptor Motif. Advanced Science, 2022, 9, e2106018. | 5.6 | 40 |

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|---|---|---|---|
| 109 | Highly efficient and stable deep-blue OLEDs based on narrowband emitters featuring an orthogonal spiro-configured indolo[3,2,1-<i>de</i>]acridine structure. Chemical Science, 2022, 13, 5622-5630. | 3.7 | 39 |
| 110 | Highly efficient blue-green organic light-emitting diodes achieved by controlling the anionic migration of cationic iridium(<scp>iii</scp>) complexes. Journal of Materials Chemistry C, 2016, 4, 5731-5738. | 2.7 | 36 |
| 111 | Effects of <i>ortho</i>-Linkages on the Molecular Stability of Organic Light-Emitting Diode Materials. Chemistry of Materials, 2018, 30, 8771-8781. | 3.2 | 36 |
| 112 | Thermally activated delayed fluorescence material-sensitized helicene enantiomer-based OLEDs: a new strategy for improving the efficiency of circularly polarized electroluminescence. Science China Materials, 2021, 64, 899-908. | 3.5 | 36 |
| 113 | Enhancing the Overall Performances of Blue Light-Emitting Electrochemical Cells by Using an Electron-Injecting/Transporting Ionic Additive. ACS Applied Materials & Interfaces, 2018, 10, 11801-11809. | 4.0 | 35 |
| 114 | Colorâ€Tunable Allâ€Fluorescent White Organic Lightâ€Emitting Diodes with a High External Quantum Efficiency Over 30% and Extended Device Lifetime. Advanced Materials, 2022, 34, e2103102. | 11.1 | 35 |
| 115 | Blue-green emitting cationic iridium complexes with 1,3,4-oxadiazole cyclometallating ligands: synthesis, photophysical and electrochemical properties, theoretical investigation and electroluminescent devices. Dalton Transactions, 2015, 44, 15914-15923. | 1.6 | 34 |
| 116 | Charge Transport in Amorphous Organic Semiconductors: Effects of Disorder, Carrier Density, Traps, and Scatters. Israel Journal of Chemistry, 2014, 54, 918-926. | 1.0 | 33 |
| 117 | Transfer-printed, tandem microscale light-emitting diodes for full-color displays. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 33 |
| 118 | Lanthanide Cerium(III) Tris(pyrazolyl)borate Complexes: Efficient Blue Emitters for Doublet Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 45686-45695. | 4.0 | 33 |
| 119 | Sterically Wrapped Multiple Resonance Fluorophors for Suppression of Concentration Quenching and Spectrum Broadening. Angewandte Chemie, 2022, 134, . | 1.6 | 32 |
| 120 | A high triplet energy small molecule based thermally cross-linkable hole-transporting material for solution-processed multilayer blue electrophosphorescent devices. Journal of Materials Chemistry C, 2015, 3, 243-246. | 2.7 | 31 |
| 121 | Highâ€Performance Organic Optocouplers Based on a Photosensitive Interfacial C<sub>60</sub>/NPB Heterojunction. Advanced Materials, 2009, 21, 2501-2504. | 11.1 | 29 |
| 122 | White light emission from an exciplex based on a phosphine oxide type electron transport compound in a bilayer device structure. RSC Advances, 2013, 3, 21453. | 1.7 | 29 |
| 123 | Cationic Iridium Complexes with 5-Phenyl-1H-1,2,4-triazole Type Cyclometalating Ligands: Toward Blue-Shifted Emission. Inorganic Chemistry, 2019, 58, 12132-12145. | 1.9 | 29 |
| 124 | Simultaneous enhancement of efficiency and stability of OLEDs with thermally activated delayed fluorescence materials by modifying carbazoles with peripheral groups. Science China Chemistry, 2019, 62, 393-402. | 4.2 | 29 |
| 125 | Trifluoromethylation of Tetraphenylborate Counterions in Cationic Iridium(III) Complexes: Enhanced Electrochemical Stabilities, Chargeâ€Transport Abilities, and Device Performance. Chemistry - A European Journal, 2014, 20, 15903-15912. | 1.7 | 28 |
| 126 | Rational Design of Chelated Aluminum Complexes toward Highly Efficient and Thermally Stable Electron-Transporting Materials. Chemistry of Materials, 2014, 26, 3693-3700. | 3.2 | 28 |

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| 127 | Ï€â€"Ï€ stacking: a strategy to improve the electron mobilities of bipolar hosts for TADF and phosphorescent devices with low efficiency roll-off. Journal of Materials Chemistry C, 2017, 5, 3372-3381. | 2.7 | 28 |
| 128 | Understanding the operational lifetime expansion methods of thermally activated delayed fluorescence sensitized OLEDs: a combined study of charge trapping and exciton dynamics. Materials Chemistry Frontiers, 2019, 3, 1181-1191. | 3.2 | 28 |
| 129 | Tandem organic light-emitting diodes with KBH_4 doped 9,10-bis(3-(pyridin-3-yl)phenyl) anthracene connected to the charge generation layer. Optics Express, 2012, 20, 14564. | 1.7 | 27 |
| 130 | Polycyclic Aromatic Hydrocarbon Derivatives toward Ideal Electron-Transporting Materials for Organic Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2019, 10, 2528-2537. | 2.1 | 27 |
| 131 | Polyethylenimine and sodium cholate-modified ethosomes complex as multidrug carriers for theÂtreatment of melanoma through transdermal delivery. Nanomedicine, 2019, 14, 2395-2408. | 1.7 | 26 |
| 132 | Electric Field inside a Hole-Only Device and Insights into Space-Charge-Limited Current Measurement for Organic Semiconductors. Journal of Physical Chemistry C, 2014, 118, 9990-9995. | 1.5 | 25 |
| 133 | Highly efficient green phosphorescent organic light-emitting diodes with low efficiency roll-off based on iridium(<scp>iii</scp>) complexes bearing oxadiazol-substituted amide ligands. Journal of Materials Chemistry C, 2016, 4, 5469-5475. | 2.7 | 25 |
| 134 | Orange-red- and white-emitting diodes fabricated by vacuum evaporation deposition of sublimable cationic iridium complexes. Journal of Materials Chemistry C, 2016, 4, 5051-5058. | 2.7 | 25 |
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