Lian Duan

List of Publications by Year
in descending order

222 papers	11,837 citations	22153 59 h-index	31849 101 g-index
224 all docs	224 docs citations	224 times ranked	8195 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.	21.0	496
3	Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. Materials Horizons, 2016, 3, 145-151.	12.2	430
4	Strategies to Design Bipolar Small Molecules for OLEDs: Donorâ€Acceptor Structure and Nonâ€Donorâ€Acceptor Structure. Advanced Materials, 2011, 23, 1137-1144.	21.0	399
5	Recent progress in solution processable TADF materials for organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 5577-5596.	5.5	370
6	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. Angewandte Chemie - International Edition, 2018, 57, 2889-2893.	13.8	350
7	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.	14.9	298
8	Solid-state light-emitting electrochemical cells based on ionic iridium(iii) complexes. Journal of Materials Chemistry, 2012, 22, 4206.	6.7	284
9	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.	14.9	276
10	Recent Progress in Ionic Iridium(III) Complexes for Organic Electronic Devices. Advanced Materials, 2017, 29, 1603253.	21.0	224
11	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.	21.0	217
12	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.	7.4	195
13	Blocking Energyâ€Loss Pathways for Ideal Fluorescent Organic Lightâ€Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. Advanced Materials, 2018, 30, 1705250.	21.0	177
14	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.	16.6	171
15	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.	6.7	166
16	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.	3.1	142
17	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.	6.7	138
18	Synthesis, Structure, Properties, and Application of a Carbazoleâ€Based Diaza[7]helicene in a Deepâ€Blueâ€Emitting OLED. Chemistry - A European Journal, 2012, 18, 8092-8099.	3.3	133

#	Article	IF	Citations
19	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.	5.5	131
20	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.	8.0	128
21	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
22	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.	14.9	117
23	High-Mobility Solution-Processed Tin Oxide Thin-Film Transistors with High-Îº Alumina Dielectric Working in Enhancement Mode. ACS Applied Materials & Interfaces, 2014, 6, 20786-20794.	8.0	113
24	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.	8.0	112
25	Ultrahighâ€Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W^{â^'1} at Luminance of 10 000 cd m^{â^'2}. Advanced Materials, 2017, 29, 1702847.	21.0	112
26	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.	8.0	107
27	Tuning of Charge Balance in Bipolar Host Materials for Highly Efficient Solution-Processed Phosphorescent Devices. Organic Letters, 2011, 13, 3146-3149.	4.6	102
28	Elucidation of the electron injection mechanism of evaporated cesium carbonate cathode interlayer for organic light-emitting diodes. Applied Physics Letters, 2007, 90, 012119.	3.3	101
29	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.	4.1	98
30	Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. Advanced Materials, 2016, 28, 106-110.	21.0	98
31	Controlling the Recombination Zone of White Organic Lightâ€Emitting Diodes with Extremely Long Lifetimes. Advanced Functional Materials, 2011, 21, 3540-3545.	14.9	94
32	Efficient n-type dopants with extremely low doping ratios for high performance inverted perovskite solar cells. Energy and Environmental Science, 2016, 9, 3424-3428.	30.8	94
33	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.	14.9	93
34	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. ACS Applied Materials & Interfaces, 2018, 10, 17327-17334.	8.0	91
35	Towards ideal electrophosphorescent devices with low dopant concentrations: the key role of triplet up-conversion. Journal of Materials Chemistry C, 2014, 2, 8983-8989.	5.5	90
36	Efficient Near-Infrared-Emitting Cationic Iridium Complexes as Dopants for OLEDs with Small Efficiency Roll-off. Journal of Physical Chemistry C, 2012, 116, 11658-11664.	3.1	89

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37	High-efficiency and low efficiency roll-off near-infrared fluorescent OLEDs through triplet fusion. Chemical Science, 2016, 7, 2888-2895.	7.4	88
38	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.	5.5	87
39	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.	2.6	85
40	Thermally Activated Delayed Fluorescence Sensitized Phosphorescence: A Strategy To Break the Trade-Off between Efficiency and Efficiency Roll-Off. ACS Applied Materials & Interfaces, 2015, 7, 15154-15159.	8.0	85
41	Highly-efficient blue electroluminescence based on two emitter isomers. Applied Physics Letters, 2004, 84, 1513-1515.	3.3	81
42	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.	3.6	81
43	Efficient single layer solution-processed blue-emitting electrophosphorescent devices based on a small-molecule host. Applied Physics Letters, 2008, 92, 263301.	3.3	79
44	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.	3.1	79
45	High-efficiency organic light-emitting diodes with tunable light emission by using aromatic diamine/5,6,11,12-tetraphenylnaphthacene multiple quantum wells. Applied Physics Letters, 2002, 81, 3540-3542.	3.3	77
46	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
47	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.	2.6	76
48	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.	21.0	76
49	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.	8.0	75
50	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.	3.1	74
51	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
52	Efficient solution-processed small-molecule single emitting layer electrophosphorescent white light-emitting diodes. Organic Electronics, 2010, 11, 1344-1350.	2.6	70
53	Highâ€stability organic redâ€light photodetector for narrowband applications. Laser and Photonics Reviews, 2016, 10, 473-480.	8.7	69
54	Highâ€Performance Fluorescent Organic Lightâ€Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electronâ€Transporting Material. Advanced Materials, 2018, 30, e1707590.	21.0	68

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55	Impacts of Sn precursors on solution-processed amorphous zincâ€“tin oxide films and their transistors. RSC Advances, 2012, 2, 5307.	3.6	66
56	Synthesis, Characterization, and Photophysical and Electroluminescent Properties of Blue-Emitting Cationic Iridium(III) Complexes Bearing Nonconjugated Ligands. Inorganic Chemistry, 2014, 53, 6596-6606.	4.0	66
57	Synthesis, Crystal Structure, and Luminescent Properties of a Binuclear Gallium Complex with Mixed Ligands. Inorganic Chemistry, 2004, 43, 5096-5102.	4.0	65
58	Control of Intramolecular Ï€â€“Ï€ Stacking Interaction in Cationic Iridium Complexes via Fluorination of Pendant Phenyl Rings. Inorganic Chemistry, 2012, 51, 4502-4510.	4.0	63
59	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.	8.0	60
60	Efficient solution-processed electrophosphorescent devices using ionic iridium complexes as the dopants. Organic Electronics, 2009, 10, 152-157.	2.6	59
61	Bright single-active layer small-molecular organic light-emitting diodes with a polytetrafluoroethylene barrier. Applied Physics Letters, 2003, 82, 155-157.	3.3	58
62	Star-shaped dendritic hosts based on carbazole moieties for highly efficient blue phosphorescent OLEDs. Journal of Materials Chemistry, 2012, 22, 12016.	6.7	56
63	Novel fluorene/carbazole hybrids with steric bulk as host materials for blue organic electrophosphorescent devices. Tetrahedron, 2007, 63, 10161-10168.	1.9	55
64	High-Efficiency Narrow-Band Electro-Fluorescent Devices with Thermally Activated Delayed Fluorescence Sensitizers Combined Through-Bond and Through-Space Charge Transfers. CCS Chemistry, 2020, 2, 1268-1277.	7.8	55
65	Increased phosphorescent quantum yields of cationic iridium(<scp>iii</scp>) complexes by wisely controlling the counter anions. Chemical Communications, 2014, 50, 530-532.	4.1	51
66	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.	5.5	51
67	New Insights into Tunable Volatility of Ionic Materials through Counterâ€Ion Control. Advanced Functional Materials, 2016, 26, 3438-3445.	14.9	51
68	Towards highly efficient red thermally activated delayed fluorescence materials by the control of intra-molecular<i>Ï€</i>â€“<i>Ï€</i>stacking interactions. Nanotechnology, 2016, 27, 094001.	2.6	51
69	Ethynylphenyl-Linked Carbazoles as a Single-Emitting Component for White Organic Light-Emitting Diodes. Chemistry of Materials, 2009, 21, 4638-4644.	6.7	49
70	Morphology and fluorescence spectra of rubrene single crystals grown by physical vapor transport. Applied Surface Science, 2007, 253, 6047-6051.	6.1	48
71	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.	3.1	47
72	Solution-processed blueâ€“green organic light-emitting diodes based on cationic iridium complexes with 1-pyridyl-3-methylimidazolin-2-ylidene-C,C2â€² as the ancillary ligand. Organic Electronics, 2012, 13, 1277-1288.	2.6	46

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73	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.	8.0	46
74	Fabrication of highly oriented large-scale TIPS pentacene crystals and transistors by the Marangoni effect-controlled growth method. Physical Chemistry Chemical Physics, 2015, 17, 6274-6279.	2.8	45
75	A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. Journal of Materials Chemistry C, 2018, 6, 745-753.	5.5	45
76	Charge Transport in Mixed Organic Disorder Semiconductors: Trapping, Scattering, and Effective Energetic Disorder. Journal of Physical Chemistry C, 2012, 116, 19748-19754.	3.1	44
77	Alcohol-Soluble Electron-Transport Small Molecule for Fully Solution-Processed Multilayer White Electrophosphorescent Devices. Organic Letters, 2014, 16, 1140-1143.	4.6	42
78	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.	8.0	42
79	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
80	Pure red electroluminescence from a host material of binuclear gallium complex. Applied Physics Letters, 2002, 81, 4913-4915.	3.3	40
81	Substituted azomethineâ€“zinc complexes: Thermal stability, photophysical, electrochemical and electron transport properties. Inorganica Chimica Acta, 2009, 362, 2327-2333.	2.4	38
82	Squarylium and rubrene based filterless narrowband photodetectors for an all-organic two-channel visible light communication system. Organic Electronics, 2016, 37, 346-351.	2.6	38
83	Homoepitaxy Growth of Well-Ordered Rubrene Thin Films. Crystal Growth and Design, 2008, 8, 1617-1622.	3.0	37
84	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.	5.5	36
85	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.	8.0	35
86	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.	3.3	34
87	Simplified single-emitting-layer hybrid white organic light-emitting diodes with high efficiency, low efficiency roll-off, high color rendering index and superior color stability. Organic Electronics, 2017, 49, 242-248.	2.6	34
88	TADF molecules with Ï€-extended acceptors for simplified high-efficiency blue and white organic light-emitting diodes. CheM, 2022, 8, 1705-1719.	11.7	34
89	Charge Transport in Amorphous Organic Semiconductors: Effects of Disorder, Carrier Density, Traps, and Scatters. Israel Journal of Chemistry, 2014, 54, 918-926.	2.3	33
90	High-Performance Transistors Based on Zinc Tin Oxides by Single Spin-Coating Process. Langmuir, 2013, 29, 151-157.	3.5	32

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91	Influence of Molecular Packing on Intramolecular Reorganization Energy: A Case Study of Small Molecules. Journal of Physical Chemistry C, 2014, 118, 14848-14852.	3.1	31
92	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.	5.5	31
93	Highâ€Performance Organic Optocouplers Based on a Photosensitive Interfacial C₆₀/NPB Heterojunction. Advanced Materials, 2009, 21, 2501-2504.	21.0	29
94	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.	3.6	29
95	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.	8.2	29
96	A perspective on blue TADF materials based on carbazole-benzonitrile derivatives for efficient and stable OLEDs. Applied Physics Letters, 2020, 116, .	3.3	29
97	Amineâ€Directed Formation of Bâ^'N Bonds for BNâ€Fused Polycyclic Aromatic Multiple Resonance Emitters with Narrowband Emission. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
98	Highly efficient blue electroluminescence based on a new anthracene derivative. Synthetic Metals, 2004, 141, 245-249.	3.9	28
99	Ideal Bipolar Host Materials with Bis-benzimidazole Unit for Highly Efficient Solution-Processed Green Electrophosphorescent Devices. Organic Letters, 2014, 16, 5346-5349.	4.6	28
100	Rational Design of Chelated Aluminum Complexes toward Highly Efficient and Thermally Stable Electron-Transporting Materials. Chemistry of Materials, 2014, 26, 3693-3700.	6.7	28
101	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.	5.5	28
102	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.	3.4	27
103	The intramolecular Ï€â€"Ï€ stacking interaction does not always work for improving the stabilities of light-emitting electrochemical cells. Organic Electronics, 2012, 13, 2442-2449.	2.6	27
104	Relationship between Mobilities from Time-of-Flight and Dark-Injection Space-Charge-Limited Current Measurements for Organic Semiconductors: A Monte Carlo Study. Journal of Physical Chemistry C, 2014, 118, 6052-6058.	3.1	26
105	Electroluminescence enhancement by blending PVK with an alternating copolymer containing triphenylamine and phenylene units. Synthetic Metals, 2001, 123, 39-42.	3.9	25
106	Facile Fabrication of Metallic Nanostructures by Tunable Cracking and Transfer Printing. Angewandte Chemie - International Edition, 2011, 50, 12478-12482.	13.8	25
107	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.	3.1	25
108	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.	5.5	25

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109	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.	5.5	25
110	Toward fluorine-free blue-emitting cationic iridium complexes: to generate emission from the cyclometalating ligands with enhanced triplet energy. Dalton Transactions, 2016, 45, 5604-5613.	3.3	25
111	Novel carbazole/pyridine-based host material for solution-processed blue phosphorescent organic light-emitting devices. Dyes and Pigments, 2012, 92, 891-896.	3.7	24
112	Nonâ€Doped Skyâ€Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. Chemistry - an Asian Journal, 2017, 12, 2189-2196.	3.3	24
113	Multilayer blue polymer light-emitting devices with spin-coated interlayers. Synthetic Metals, 2007, 157, 343-346.	3.9	23
114	Stable blue-green light-emitting electrochemical cells based on a cationic iridium complex with phenylpyrazole as the cyclometalated ligands. Organic Electronics, 2012, 13, 1948-1955.	2.6	23
115	Morphological Structure and Optical Property of Anthracene Single Crystals Grown from Solution. Japanese Journal of Applied Physics, 2007, 46, 7789.	1.5	22
116	Thermally Decomposable Lithium Nitride as an Electron Injection Material for Highly Efficient and Stable OLEDs. Journal of Physical Chemistry C, 2009, 113, 13386-13390.	3.1	22
117	An Ambipolar Transporting Naphtho[2,3-c][1,2,5]thiadiazole Derivative with High Electron and Hole Mobilities. Organic Letters, 2009, 11, 2069-2072.	4.6	22
118	A flexible blue light sensitive organic photodiode with high properties for the applications in lowâ€voltageâ€control circuit and flexion sensors. Laser and Photonics Reviews, 2014, 8, 316-323.	8.7	22
119	Multifunctional Organic Phototransistor-based Nonvolatile Memory Achieved by UV/Ozone Treatment of the Ta₂O₅ Gate Dielectric. ACS Applied Materials & Interfaces, 2014, 6, 8337-8344.	8.0	22
120	High efficiency red phosphorescent organic light-emitting diodes with low dopant concentration, low roll-off and long lifetime based on a novel host material with thermally activated delayed fluorescent properties. Organic Electronics, 2018, 57, 53-59.	2.6	22
121	A novel hyperbranched conjugated polymer for electroluminescence application. Synthetic Metals, 2001, 124, 373-377.	3.9	21
122	Efficient blue-green and white organic light-emitting diodes withÂaÂsmall-molecule host and cationic iridium complexes asÂdopants. Applied Physics A: Materials Science and Processing, 2010, 100, 1035-1040.	2.3	21
123	Tetraphenylborate versus tetraimidazolylborate as counterions for cationic iridium(<scp>iii</scp>) complexes: enhanced electrochemical stabilities and electroluminescence. Dalton Transactions, 2015, 44, 8521-8528.	3.3	21
124	Multifunctional emitters for efficient simplified non-doped blueish green organic light emitting devices with extremely low efficiency roll-off. Journal of Materials Chemistry C, 2017, 5, 6527-6536.	5.5	21
125	Toward Highâ€Performance Vacuumâ€Deposited OLEDs: Sublimable Cationic Iridium(III) Complexes with Yellow and Orange Electroluminescence. Chemistry - A European Journal, 2018, 24, 5574-5583.	3.3	21
126	Fluorine-free, highly efficient, blue-green and sky-blue-emitting cationic iridium complexes and their use for efficient organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 1509-1520.	5.5	21

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127	Synthesis, Structures, and Optical Properties of Cadmium Iodide/Phenethylamine Hybrid Materials with Controlled Structures and Emissions. Inorganic Chemistry, 2007, 46, 10252-10260.	4.0	20
128	Efficient solution-processed phosphor-sensitized single-emitting-layer white organic light-emitting devices: fabrication, characteristics, and transient analysis of energy transfer. Journal of Materials Chemistry, 2011, 21, 5312.	6.7	20
129	<i>Review Paper</i>: Progress on efficient cathodes for organic lightâ€emitting diodes. Journal of the Society for Information Display, 2011, 19, 453-461.	2.1	20
130	Stable and efficient blue fluorescent organic light-emitting diode by blade coating with or without electron-transport layer. Organic Electronics, 2017, 51, 6-15.	2.6	20
131	Effects of cathode thickness and thermal treatment on the design of balanced blue light-emitting polymer device. Applied Physics Letters, 2004, 85, 4496.	3.3	19
132	Small molecular phosphorescent organic light-emitting diodes using a spin-coated hole blocking layer. Applied Physics Letters, 2012, 100, .	3.3	19
133	Organic cesium salt as an efficient electron injection material for organic light-emitting diodes. Applied Physics Letters, 2008, 93, 183302.	3.3	18
134	Low-Temperature Evaporable Re₂O₇: An Efficient p-Dopant for OLEDs. Journal of Physical Chemistry C, 2013, 117, 13763-13769.	3.1	18
135	Phosphorescent cationic iridium complexes with phenyl-imidazole type cyclometalating ligands: A combined experimental and theoretical study on photophysical, electrochemical and electroluminescent properties. Dyes and Pigments, 2016, 131, 76-83.	3.7	18
136	Using an organic radical precursor as an electron injection material for efficient and stable organic light-emitting diodes. Nanotechnology, 2016, 27, 174001.	2.6	18
137	Sublimable Cationic Iridium(III) Complexes with 1,10â€Phenanthroline Derivatives as Ancillary Ligands for Highly Efficient and Polychromic Electroluminescence. Chemistry - A European Journal, 2016, 22, 15888-15895.	3.3	17
138	Improved flexibility of flexible organic light-emitting devices by using a metal/organic multilayer cathode. Journal Physics D: Applied Physics, 2009, 42, 075103.	2.8	16
139	Ambipolar Transporting 1,2â€Benzanthracene Derivative with Efficient Green Excimer Emission for Singleâ€Layer Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2013, 1, 167-172.	7.3	16
140	Enhanced mobility of solution-processed polycrystalline zinc tin oxide thin-film transistors via direct incorporation of water into precursor solution. Applied Physics Letters, 2014, 105, .	3.3	16
141	Multifunctional Materials for High-Performance Double-Layer Organic Light-Emitting Diodes: Comparison of Isomers with and without Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2017, 9, 17279-17289.	8.0	16
142	Synthesis and properties of a thiophene-substituted diaza[7]helicene for application as a blue emitter in organic light-emitting diodes. Tetrahedron Letters, 2017, 58, 531-535.	1.4	16
143	Study of the Hole and Electron Transport in Amorphous 9,10-Di-(2â€²-naphthyl)anthracene: The First-Principles Approach. Journal of Physical Chemistry C, 2013, 117, 16336-16342.	3.1	15
144	Systematic Investigation of Surface Modification by Organosiloxane Self-Assembled on Indiumâ€“Tin Oxide for Improved Hole Injection in Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2014, 6, 4570-4577.	8.0	15

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145	General application of blade coating to small-molecule hosts for organic light-emitting diode. Synthetic Metals, 2014, 196, 99-109.	3.9	15
146	Systematically tuning the Î”E_{ST} and charge balance property of bipolar hosts for low operating voltage and high power efficiency solution-processed electrophosphorescent devices. Journal of Materials Chemistry C, 2015, 3, 5004-5016.	5.5	15
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