Lian Duan

List of Publications by Citations

217 papers	9,878 citations	55 h-index	91 g-index
224 ext. papers	10,986 ext. citations	6.5 avg, IF	6.48 L-index

#	Paper	IF	Citations
217	Solution processable small molecules for organic light-emitting diodes. *Journal of Materials Chemistry*, **2010**, 20, 6392		506
216	High-efficiency fluorescent organic light-emitting devices using sensitizing hosts with a small singlet-triplet exchange energy. *Advanced Materials*, **2014**, 26, 5050-5	24	385
215	Strategies to design bipolar small molecules for OLEDs: donor-acceptor structure and non-donor-acceptor structure. *Advanced Materials*, **2011**, 23, 1137-44	24	360
214	Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. *Materials Horizons*, **2016**, 3, 145-151	14.4	323
213	Toward Highly Efficient Solid-State White Light-Emitting Electrochemical Cells: Blue-Green to Red Emitting Cationic Iridium Complexes with Imidazole-Type Ancillary Ligands. *Advanced Functional Materials*, **2009**, 19, 2950-2960	15.6	278
212	Solid-state light-emitting electrochemical cells based on ionic iridium(III) complexes. *Journal of Materials Chemistry*, **2012**, 22, 4206		273
211	Blue-Emitting Cationic Iridium Complexes with 2-(1H-Pyrazol-1-yl)pyridine as the Ancillary Ligand for Efficient Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2008**, 18, 2123-2131	15.6	252
210	Recent progress in solution processable TADF materials for organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 5577-5596	7.1	248
209	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. *Angewandte Chemie - International Edition*, **2018**, 57, 2889-2893	16.4	213
208	Recent Progress in Ionic Iridium(III) Complexes for Organic Electronic Devices. *Advanced Materials*, **2017**, 29, 1603253	24	180
207	Highly efficient blue thermally activated delayed fluorescent OLEDs with record-low driving voltages utilizing high triplet energy hosts with small singlet-triplet splittings. *Chemical Science*, **2016**, 7, 3355-3363	9.4	163
206	Versatile Indolocarbazole-Isomer Derivatives as Highly Emissive Emitters and Ideal Hosts for Thermally Activated Delayed Fluorescent OLEDs with Alleviated Efficiency Roll-Off. *Advanced Materials*, **2018**, 30, 1705406	24	162
205	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	16.7	156
204	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	9.6	153
203	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	7.1	121
202	Blocking Energy-Loss Pathways for Ideal Fluorescent Organic Light-Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. *Advanced Materials*, **2018**, 30, 1705250	24	117
201	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	3.8	114

200	High-triplet-energy tri-carbazole derivatives as host materials for efficient solution-processed blue phosphorescent devices. *Journal of Materials Chemistry*, **2011**, 21, 4918		114
199	Synthesis, structure, properties, and application of a carbazole-based diaza[7]helicene in a deep-blue-emitting OLED. *Chemistry - A European Journal*, **2012**, 18, 8092-9	4.8	113
198	Highly Efficient Simplified Single-Emitting-Layer Hybrid WOLEDs with Low Roll-off and Good Color Stability through Enhanced Förster Energy Transfer. *ACS Applied Materials & Interfaces*, **2015**, 7, 28693-700	9.5	110
197	Towards High Efficiency and Low Roll-Off Orange Electrophosphorescent Devices by Fine Tuning Singlet and Triplet Energies of Bipolar Hosts Based on Indolocarbazole/1, 3, 5-Triazine Hybrids. *Advanced Functional Materials*, **2014**, 24, 3551-3561	15.6	106
196	Tuning of charge balance in bipolar host materials for highly efficient solution-processed phosphorescent devices. *Organic Letters*, **2011**, 13, 3146-9	6.2	98
195	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	9.6	97
194	High-mobility solution-processed tin oxide thin-film transistors with high-κ alumina dielectric working in enhancement mode. *ACS Applied Materials & Interfaces*, **2014**, 6, 20786-94	9.5	96
193	Simultaneous Enhancement of Efficiency and Stability of Phosphorescent OLEDs Based on Efficient Förster Energy Transfer from Interface Exciplex. *ACS Applied Materials & Interfaces*, **2016**, 8, 3825-32	9.5	92
192	Ultrahigh-Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W at Luminance of 10 000 cd m. *Advanced Materials*, **2017**, 29, 1702847	24	92
191	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, 6467-9	5.8	92
190	Elucidation of the electron injection mechanism of evaporated cesium carbonate cathode interlayer for organic light-emitting diodes. *Applied Physics Letters*, **2007**, 90, 012119	3.4	92
189	Controlling the Recombination Zone of White Organic Light-Emitting Diodes with Extremely Long Lifetimes. *Advanced Functional Materials*, **2011**, 21, 3540-3545	15.6	90
188	Highly Efficient Full-Color Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes: Extremely Low Efficiency Roll-Off Utilizing a Host with Small Singlet-Triplet Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 4769-4777	9.5	86
187	Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. *Advanced Materials*, **2016**, 28, 106-10	24	84
186	A Pyridine-Containing Anthracene Derivative with High Electron and Hole Mobilities for Highly Efficient and Stable Fluorescent Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2011**, 21, 1881-1886	15.6	84
185	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	3.8	82
184	Towards ideal electrophosphorescent devices with low dopant concentrations: the key role of triplet up-conversion. *Journal of Materials Chemistry C*, **2014**, 2, 8983-8989	7.1	81
183	Efficient single layer solution-processed blue-emitting electrophosphorescent devices based on a small-molecule host. *Applied Physics Letters*, **2008**, 92, 263301	3.4	76

182	Extremely low driving voltage electrophosphorescent green organic light-emitting diodes based on a host material with small singlet–triplet exchange energy without p- or n-doping layer. *Organic Electronics*, **2013**, 14, 260-266	3.5	75
181	Highly-efficient blue electroluminescence based on two emitter isomers. *Applied Physics Letters*, **2004**, 84, 1513-1515	3.4	75
180	Efficient n-type dopants with extremely low doping ratios for high performance inverted perovskite solar cells. *Energy and Environmental Science*, **2016**, 9, 3424-3428	35.4	75
179	High-efficiency and low efficiency roll-off near-infrared fluorescent OLEDs through triplet fusion. *Chemical Science*, **2016**, 7, 2888-2895	9.4	74
178	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	3.4	73
177	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	7.1	71
176	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	3.5	70
175	Novel star-shaped host materials for highly efficient solution-processed phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2010**, 20, 6131		68
174	Efficient solution-processed small-molecule single emitting layer electrophosphorescent white light-emitting diodes. *Organic Electronics*, **2010**, 11, 1344-1350	3.5	68
173	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	3.8	67
172	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, 15154-9	9.5	66
171	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	3.7	65
170	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		62
169	Synthesis, crystal structure, and luminescent properties of a binuclear gallium complex with mixed ligands. *Inorganic Chemistry*, **2004**, 43, 5096-102	5.1	62
168	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	3.8	59
167	Synthesis, characterization, and photophysical and electroluminescent properties of blue-emitting cationic iridium(III) complexes bearing nonconjugated ligands. *Inorganic Chemistry*, **2014**, 53, 6596-606	5.1	59
166	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	9.5	58
165	Impacts of Sn precursors on solution-processed amorphous zinc–tin oxide films and their transistors. *RSC Advances*, **2012**, 2, 5307	3.7	58

164	Efficient solution-processed electrophosphorescent devices using ionic iridium complexes as the dopants. *Organic Electronics*, **2009**, 10, 152-157	3.5	56
163	High-stability organic red-light photodetector for narrowband applications. *Laser and Photonics Reviews*, **2016**, 10, 473-480	8.3	55
162	Control of intramolecular □stacking interaction in cationic iridium complexes via fluorination of pendant phenyl rings. *Inorganic Chemistry*, **2012**, 51, 4502-10	5.1	55
161	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, 7303-14	9.5	53
160	Bright single-active layer small-molecular organic light-emitting diodes with a polytetrafluoroethylene barrier. *Applied Physics Letters*, **2003**, 82, 155-157	3.4	53
159	Star-shaped dendritic hosts based on carbazole moieties for highly efficient blue phosphorescent OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 12016		52
158	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. *ACS Applied Materials & Interfaces*, **2018**, 10, 17327-17334	9.5	50
157	Novel fluorene/carbazole hybrids with steric bulk as host materials for blue organic electrophosphorescent devices. *Tetrahedron*, **2007**, 63, 10161-10168	2.4	50
156	High-Performance Fluorescent Organic Light-Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electron-Transporting Material. *Advanced Materials*, **2018**, 30, e1707590	24	50
155	Ethynylphenyl-Linked Carbazoles as a Single-Emitting Component for White Organic Light-Emitting Diodes. *Chemistry of Materials*, **2009**, 21, 4638-4644	9.6	47
154	Increased phosphorescent quantum yields of cationic iridium(III) complexes by wisely controlling the counter anions. *Chemical Communications*, **2014**, 50, 530-2	5.8	46
153	Towards highly efficient red thermally activated delayed fluorescence materials by the control of intra-molecular □stacking interactions. *Nanotechnology*, **2016**, 27, 094001	3.4	45
152	Solution-processed blue□green organic light-emitting diodes based on cationic iridium complexes with 1-pyridyl-3-methylimidazolin-2-ylidene-C,C2? as the ancillary ligand. *Organic Electronics*, **2012**, 13, 1277-1288	3.5	45
151	Morphology and fluorescence spectra of rubrene single crystals grown by physical vapor transport. *Applied Surface Science*, **2007**, 253, 6047-6051	6.7	45
150	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	3.8	41
149	New Insights into Tunable Volatility of Ionic Materials through Counter-Ion Control. *Advanced Functional Materials*, **2016**, 26, 3438-3445	15.6	40
148	Air stable organic salt as an n-type dopant for efficient and stable organic light-emitting diodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 6444-50	9.5	39
147	Charge Transport in Mixed Organic Disorder Semiconductors: Trapping, Scattering, and Effective Energetic Disorder. *Journal of Physical Chemistry C*, **2012**, 116, 19748-19754	3.8	39

146	Pure red electroluminescence from a host material of binuclear gallium complex. *Applied Physics Letters*, **2002**, 81, 4913-4915	3.4	38
145	Alcohol-soluble electron-transport small molecule for fully solution-processed multilayer white electrophosphorescent devices. *Organic Letters*, **2014**, 16, 1140-3	6.2	37
144	Colour-tunable asymmetric cyclometalated Pt(II) complexes and STM-assisted stability assessment of ancillary ligands for OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 2560-2565	7.1	36
143	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		35
142	A D and A Exciplex-Forming Host for High-Efficiency and Long-Lifetime Single-Emissive-Layer Fluorescent White Organic Light-Emitting Diodes. *Advanced Materials*, **2020**, 32, e2004040	24	35
141	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, 23197-203	9.5	34
140	Homoepitaxy Growth of Well-Ordered Rubrene Thin Films. *Crystal Growth and Design*, **2008**, 8, 1617-1623	3.5	34
139	Substituted azomethine zinc complexes: Thermal stability, photophysical, electrochemical and electron transport properties. *Inorganica Chimica Acta*, **2009**, 362, 2327-2333	2.7	32
138	A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. *Journal of Materials Chemistry C*, **2018**, 6, 745-753	7.1	32
137	Fabrication of highly oriented large-scale TIPS pentacene crystals and transistors by the Marangoni effect-controlled growth method. *Physical Chemistry Chemical Physics*, **2015**, 17, 6274-9	3.6	31
136	Highly efficient blue-green organic light-emitting diodes achieved by controlling the anionic migration of cationic iridium(III) complexes. *Journal of Materials Chemistry C*, **2016**, 4, 5731-5738	7.1	31
135	Charge Transport in Amorphous Organic Semiconductors: Effects of Disorder, Carrier Density, Traps, and Scatters. *Israel Journal of Chemistry*, **2014**, 54, 918-926	3.4	30
134	High-performance transistors based on zinc tin oxides by single spin-coating process. *Langmuir*, **2013**, 29, 151-7	4	30
133	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, 15914-23	4.3	29
132	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	3.5	28
131	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	7.1	27
130	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	9.5	27
129	Squarylium and rubrene based filterless narrowband photodetectors for an all-organic two-channel visible light communication system. *Organic Electronics*, **2016**, 37, 346-351	3.5	27

128	Ideal bipolar host materials with bis-benzimidazole unit for highly efficient solution-processed green electrophosphorescent devices. *Organic Letters*, **2014**, 16, 5346-9	6.2	26
127	The intramolecular π stacking interaction does not always work for improving the stabilities of light-emitting electrochemical cells. *Organic Electronics*, **2012**, 13, 2442-2449	3.5	26
126	Tandem organic light-emitting diodes with KBH4 doped 9,10-bis(3-(pyridin-3-yl)phenyl) anthracene connected to the charge generation layer. *Optics Express*, **2012**, 20, 14564-72	3.3	26
125	Highly efficient blue electroluminescence based on a new anthracene derivative. *Synthetic Metals*, **2004**, 141, 245-249	3.6	26
124	π 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	7.1	25
123	Influence of Molecular Packing on Intramolecular Reorganization Energy: A Case Study of Small Molecules. *Journal of Physical Chemistry C*, **2014**, 118, 14848-14852	3.8	25
122	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	3.8	25
121	Rational Design of Chelated Aluminum Complexes toward Highly Efficient and Thermally Stable Electron-Transporting Materials. *Chemistry of Materials*, **2014**, 26, 3693-3700	9.6	24
120	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	3.7	24
119	High-Performance Organic Optocouplers Based on a Photosensitive Interfacial C60/NPB Heterojunction. *Advanced Materials*, **2009**, 21, 2501-2504	24	24
118	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	7.9	23
117	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	3.5	23
116	Electroluminescence enhancement by blending PVK with an alternating copolymer containing triphenylamine and phenylene units. *Synthetic Metals*, **2001**, 123, 39-42	3.6	23
115	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	3.8	22
114	Novel carbazole/pyridine-based host material for solution-processed blue phosphorescent organic light-emitting devices. *Dyes and Pigments*, **2012**, 92, 891-896	4.6	22
113	Facile fabrication of metallic nanostructures by tunable cracking and transfer printing. *Angewandte Chemie - International Edition*, **2011**, 50, 12478-82	16.4	22
112	Multilayer blue polymer light-emitting devices with spin-coated interlayers. *Synthetic Metals*, **2007**, 157, 343-346	3.6	22
111	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	7.2	22

110	Highly efficient green phosphorescent organic light-emitting diodes with low efficiency roll-off based on iridium(III) complexes bearing oxadiazol-substituted amide ligands. *Journal of Materials Chemistry C*, **2016**, 4, 5469-5475	7.1	22
109	Toward fluorine-free blue-emitting cationic iridium complexes: to generate emission from the cyclometalating ligands with enhanced triplet energy. *Dalton Transactions*, **2016**, 45, 5604-13	4.3	21
108	A novel hyperbranched conjugated polymer for electroluminescence application. *Synthetic Metals*, **2001**, 124, 373-377	3.6	21
107	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	7.1	21
106	Multifunctional organic phototransistor-based nonvolatile memory achieved by UV/ozone treatment of the Ta□□gate dielectric. *ACS Applied Materials & Interfaces*, **2014**, 6, 8337-44	9.5	20
105	Tetraphenylborate versus tetraimidazolylborate as counterions for cationic iridium(III) complexes: enhanced electrochemical stabilities and electroluminescence. *Dalton Transactions*, **2015**, 44, 8521-8	4.3	20
104	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		20
103	An ambipolar transporting naphtho[2,3-c][1,2,5]thiadiazole derivative with high electron and hole mobilities. *Organic Letters*, **2009**, 11, 2069-72	6.2	20
102	Morphological Structure and Optical Property of Anthracene Single Crystals Grown from Solution. *Japanese Journal of Applied Physics*, **2007**, 46, 7789-7792	1.4	20
101	A flexible blue light sensitive organic photodiode with high properties for the applications in low-voltage-control circuit and flexion sensors. *Laser and Photonics Reviews*, **2014**, 8, 316-323	8.3	19
100	Non-Doped Sky-Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. *Chemistry - an Asian Journal*, **2017**, 12, 2189-2196	4.5	19
99	Small molecular phosphorescent organic light-emitting diodes using a spin-coated hole blocking layer. *Applied Physics Letters*, **2012**, 100, 083304	3.4	19
98	Thermally Decomposable Lithium Nitride as an Electron Injection Material for Highly Efficient and Stable OLEDs. *Journal of Physical Chemistry C*, **2009**, 113, 13386-13390	3.8	19
97	Efficient blue-green and white organic light-emitting diodes with a small-molecule host and cationic iridium complexes as dopants. *Applied Physics A: Materials Science and Processing*, **2010**, 100, 1035-1040	2.6	18
96	Low-Temperature Evaporable Re2O7: An Efficient p-Dopant for OLEDs. *Journal of Physical Chemistry C*, **2013**, 117, 13763-13769	3.8	17
95	Synthesis, structures, and optical properties of cadmium iodide/phenethylamine hybrid materials with controlled structures and emissions. *Inorganic Chemistry*, **2007**, 46, 10252-60	5.1	17
94	Effects of cathode thickness and thermal treatment on the design of balanced blue light-emitting polymer device. *Applied Physics Letters*, **2004**, 85, 4496	3.4	17
93	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	7.1	16

92	A perspective on blue TADF materials based on carbazole-benzonitrile derivatives for efficient and stable OLEDs. *Applied Physics Letters*, **2020**, 116, 120503	3.4	16
91	Toward High-Performance Vacuum-Deposited OLEDs: Sublimable Cationic Iridium(III) Complexes with Yellow and Orange Electroluminescence. *Chemistry - A European Journal*, **2018**, 24, 5574-5583	4.8	16
90	Sublimable Cationic Iridium(III) Complexes with 1,10-Phenanthroline Derivatives as Ancillary Ligands for Highly Efficient and Polychromic Electroluminescence. *Chemistry - A European Journal*, **2016**, 22, 15888-15895	4.8	16
89	Organic cesium salt as an efficient electron injection material for organic light-emitting diodes. *Applied Physics Letters*, **2008**, 93, 183302	3.4	16
88	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	3.5	15
87	Using an organic radical precursor as an electron injection material for efficient and stable organic light-emitting diodes. *Nanotechnology*, **2016**, 27, 174001	3.4	15
86	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, 122105	3.4	15
85	Study of the Hole and Electron Transport in Amorphous 9,10-Di-(2?-naphthyl)anthracene: The First-Principles Approach. *Journal of Physical Chemistry C*, **2013**, 117, 16336-16342	3.8	15
84	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	9.5	14
83	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	7.1	14
82	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	4.6	14
81	Systematic investigation of surface modification by organosiloxane self-assembled on indium-tin oxide for improved hole injection in organic light-emitting diodes. *ACS Applied Materials & Interfaces*, **2014**, 6, 4570-7	9.5	14
80	Organic Radicals Outperform LiF as Efficient Electron-Injection Materials for Organic Light-Emitting Diodes. *Journal of Physical Chemistry Letters*, **2017**, 8, 4769-4773	6.4	14
79	Ambipolar Transporting 1,2-Benzanthracene Derivative with Efficient Green Excimer Emission for Single-Layer Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2013**, 1, 167-172	8.1	14
78	Improved flexibility of flexible organic light-emitting devices by using a metal/organic multilayer cathode. *Journal Physics D: Applied Physics*, **2009**, 42, 075103	3	14
77	General application of blade coating to small-molecule hosts for organic light-emitting diode. *Synthetic Metals*, **2014**, 196, 99-109	3.6	13
76	Transient space-charge-perturbed currents in organic materials: A Monte Carlo study. *Organic Electronics*, **2014**, 15, 524-530	3.5	13
75	Stable and efficient blue fluorescent organic light-emitting diode by blade coating with or without electron-transport layer. *Organic Electronics*, **2017**, 51, 6-15	3.5	13

74	Improving the performance of OLEDs by using a low-temperature-evaporable n-dopant and a high-mobility electron transport host. *Optics Express*, **2011**, 19 Suppl 6, A1265-71	3.3	13
73	Sustainable phosphorescence based on solution-processable and vacuum-sublimable cationic ruthenium(II) complexes achieved by counter-ion control. *Organic Electronics*, **2017**, 42, 194-202	3.5	12
72	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	2	12
71	Systematically tuning the EST 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	7.1	12
70	Stable Organic Radicals as Hole Injection Dopants for Efficient Optoelectronics. *ACS Applied Materials & Interfaces*, **2018**, 10, 4882-4886	9.5	12
69	Synthesis of carbazole-based dendrimer: host material for highly efficient solution-processed blue organic electrophosphorescent diodes. *Tetrahedron*, **2012**, 68, 5800-5805	2.4	12
68	Cationic iridium(III) complexes with different-sized negative counter-ions for solution-processed deep-blue-emitting diodes. *Organic Electronics*, **2016**, 39, 16-24	3.5	12
67	A cationic iridium complex meets an electron-transporting counter-anion: enhanced performances of solution-processed phosphorescent light-emitting diodes. *Chemical Communications*, **2016**, 52, 14466-14469	5.8	11
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