Lian Duan

List of Publications by Year in Descending Order

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	OLEDs using molecular TADF materials as hosts **2022**, 289-352		
216	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
215	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
214	A ED and EA 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
213	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
212	Recent progress in solution processable TADF materials for organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 5577-5596	7.1	248
211	Efficient deep blue emitter based on the integration of phenanthroimidazole, triphenylamine and tetraphenylethene for organic light emitting devices. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 359, 87-92	4.7	7
210	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
209	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
208	Stable Organic Radicals as Hole Injection Dopants for Efficient Optoelectronics. *ACS Applied Materials & Interfaces*, **2018**, 10, 4882-4886	9.5	12
207	Deep insights into the viscosity of small molecular solutions for organic light-emitting diodes. *RSC Advances*, **2018**, 8, 4153-4161	3.7	4
206	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. *Angewandte Chemie - International Edition*, **2018**, 57, 2889-2893	16.4	213
205	Blocking Energy-Loss Pathways for Ideal Fluorescent Organic Light-Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. *Advanced Materials*, **2018**, 30, 1705250	24	117
204	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
203	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
202	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. *ACS Applied Materials & Interfaces*, **2018**, 10, 17327-17334	9.5	50
201	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

200	Triphenylvinyl anthracene based emitter for non-doped blue light emitting devices with unusual emission behavior. *Optical Materials*, **2018**, 79, 8-11	3.3	2
199	Vacuum-Deposited versus Spin-Coated Emissive Layers for Fabricating High-Performance Blue-Green-Emitting Diodes. *ChemPlusChem*, **2018**, 83, 211-216	2.8	7
198	A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. *Journal of Materials Chemistry C*, **2018**, 6, 745-753	7.1	32
197	High-Performance Fluorescent Organic Light-Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electron-Transporting Material. *Advanced Materials*, **2018**, 30, e1707590	24	50
196	High-performance yellow- and orange-emitting diodes based on novel sublimable cationic iridium(III) complexes by ligand control. *Journal of Materials Chemistry C*, **2018**, 6, 5630-5638	7.1	8
195	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
194	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
193	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
192	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
191	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
190	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
189	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
188	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
187	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
186	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
185	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
184	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
183	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

182	Recent Progress in Ionic Iridium(III) Complexes for Organic Electronic Devices. *Advanced Materials*, **2017**, 29, 1603253	24	180
181	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
180	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
179	Synergistic effects of water addition and step heating on the formation of solution-processed zinc tin oxide thin films: towards high-mobility polycrystalline transistors. *Nanotechnology*, **2016**, 27, 465204	3.4	2
178	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
177	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
176	New Insights into Tunable Volatility of Ionic Materials through Counter-Ion Control. *Advanced Functional Materials*, **2016**, 26, 3438-3445	15.6	40
175	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
174	High-stability organic red-light photodetector for narrowband applications. *Laser and Photonics Reviews*, **2016**, 10, 473-480	8.3	55
173	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
172	Red phosphorescent organic light-emitting diodes based on a novel host material with thermally activated delayed fluorescent properties. *Science China Chemistry*, **2016**, 59, 684-691	7.9	10
171	High-efficiency and low efficiency roll-off near-infrared fluorescent OLEDs through triplet fusion. *Chemical Science*, **2016**, 7, 2888-2895	9.4	74
170	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
169	Toward highly efficient blue organic light-emitting diodes: fabricating a good-quality emissive layer cast from suitable solvents. *Dalton Transactions*, **2016**, 45, 6118-23	4.3	8
168	Multi-scale calculation of the electric properties of organic-based devices from the molecular structure. *Organic Electronics*, **2016**, 33, 164-171	3.5	11
167	Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. *Advanced Materials*, **2016**, 28, 106-10	24	84
166	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
165	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

164	Towards highly efficient red thermally activated delayed fluorescence materials by the control of intra-molecular π-stacking interactions. *Nanotechnology*, **2016**, 27, 094001	3.4	45
163	Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. *Materials Horizons*, **2016**, 3, 145-151	14.4	323
162	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
161	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
160	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
159	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
158	Li : Mg alloy with variable work function as highly efficient cathode for organic light-emitting devices. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 3245-3249	1.6	2
157	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
156	[Ir(ppy)2pyim]PF6 dielectric mixed with PMMA for area emission transistors. *RSC Advances*, **2016**, 6, 94010-94013	3.7	
155	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
154	Full-solution-processed high mobility zinc-tin-oxide thin-film-transistors. *Science China Technological Sciences*, **2016**, 59, 1407-1412	3.5	9
153	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
152	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
151	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
150	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
149	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
148	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
147	Highly Integrable Organic Optocouplers on a Patterned Double-Side Indium Tin Oxide Substrate With High Isolation Voltage. *IEEE Electron Device Letters*, **2015**, 36, 171-173	4.4	3

146	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
145	Highly Efficient Hybrid White Tandem Organic Light-Emitting Diodes with MoO3 Layer. *Chinese Journal of Chemistry*, **2015**, 33, 859-864	4.9	10
144	Tetraphenylborate versus tetraimidazolylborate as counterions for cationic iridium(III) complexes: enhanced electrochemical stabilities and electroluminescence. *Dalton Transactions*, **2015**, 44, 8521-8	4.3	20
143	Highly Efficient Simplified Single-Emitting-Layer Hybrid WOLEDs with Low Roll-off and Good Color Stability through Enhanced F□ster Energy Transfer. *ACS Applied Materials & Interfaces*, **2015**, 7, 28693-700	9.5	110
142	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
141	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
140	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
139	High-mobility solution-processed tin oxide thin-film transistors with high-□alumina dielectric working in enhancement mode. *ACS Applied Materials & Interfaces*, **2014**, 6, 20786-94	9.5	96
138	A multifunctional ionic iridium complex for field-effect and light-emitting devices. *RSC Advances*, **2014**, 4, 51294-51297	3.7	4
137	Programmable and Erasable Pentacene/Ta2O5 Phototransistor Memory With Improved Retention Time. *IEEE Electron Device Letters*, **2014**, 35, 741-743	4.4	3
136	Increased phosphorescent quantum yields of cationic iridium(III) complexes by wisely controlling the counter anions. *Chemical Communications*, **2014**, 50, 530-2	5.8	46
135	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
134	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
133	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
132	Predicting photocurrent tendency of organic photodiodes operating at external bias through optical field modeling. *Organic Electronics*, **2014**, 15, 3231-3236	3.5	5
131	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
130	General application of blade coating to small-molecule hosts for organic light-emitting diode. *Synthetic Metals*, **2014**, 196, 99-109	3.6	13
129	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

128	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
127	Bismuth Trifluoride as a low-temperature-evaporable insulating dopant for efficient and stable organic light-emitting diodes. *Organic Electronics*, **2014**, 15, 2439-2447	3.5	6
126	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
125	Volatilize-controlled oriented growth of the single-crystal layer for organic field-effect transistors. *Langmuir*, **2014**, 30, 12082-8	4	7
124	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
123	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
122	Alcohol-soluble electron-transport small molecule for fully solution-processed multilayer white electrophosphorescent devices. *Organic Letters*, **2014**, 16, 1140-3	6.2	37
121	Transient space-charge-perturbed currents in organic materials: A Monte Carlo study. *Organic Electronics*, **2014**, 15, 524-530	3.5	13
120	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
119	The effect of oxygen content on the performance of low-voltage organic phototransistor memory. *Organic Electronics*, **2014**, 15, 1664-1671	3.5	10
118	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
117	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
116	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
115	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
114	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
113	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
112	Transient space-charge-perturbed currents of N,N?-diphenyl-N,N?-bis(1-naphthyl)-1,1?-biphenyl-4,4?-diamine and N,N?-diphenyl-N,N?-bis(3-methylphenyl)-1,1?-biphenyl-4,4?-diamine in diode structures. *Applied Physics Letters*, **2014**, 104, 183301	3.4	4
111	Mechanisms of Charge Transport in Transition Metal Oxide Doped Organic Semiconductors. *Journal of Physical Chemistry C*, **2014**, 118, 29636-29642	3.8	8

110	Bipolar charge transport property of N,N?-dicarbazolyl-1,4-dimethene-benzene: A study of the short range order model. *Science Bulletin*, **2013**, 58, 79-83		3
109	Performance enhancement of organic light-emitting diodes by chlorinated indium tin oxide in the presence of hydrogen peroxide. *Organic Electronics*, **2013**, 14, 882-887	3.5	8
108	Percolative charge transport in a co-evaporated organic molecular mixture. *Organic Electronics*, **2013**, 14, 3312-3317	3.5	8
107	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
106	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
105	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
104	High-performance transistors based on zinc tin oxides by single spin-coating process. *Langmuir*, **2013**, 29, 151-7	4	30
103	Efficient doped red light-emitting electrochemical cells based on cationic iridium complexes. *Synthetic Metals*, **2013**, 163, 33-37	3.6	11
102	Improved organic optocouplers based on a deep blue fluorescent OLED and an optimized bilayer heterojunction photosensor. *Sensors and Actuators B: Chemical*, **2013**, 188, 879-885	8.5	9
101	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
100	Electrophosphorescent devices based on cationic iridium complexes: The effect of fluorinating the pendant phenyl ring of the ancillary ligand on the device performances. *Synthetic Metals*, **2013**, 166, 52-56	3.6	11
99	Low-Temperature Evaporable Re2O7: An Efficient p-Dopant for OLEDs. *Journal of Physical Chemistry C*, **2013**, 117, 13763-13769	3.8	17
98	High-Performance Organic Optocouplers Based on an Organic Photodiode With High Blue Light Sensitivity. *IEEE Electron Device Letters*, **2013**, 34, 1295-1297	4.4	6
97	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
96	Co-Actions of Ambient Pressure and Gas Molecular Adsorption on the Carriers□Transport in Polycrystalline Pentacene Thin-Film Transistors. *Journal of Physical Chemistry C*, **2013**, 117, 58-63	3.8	4
95	The Interface Modification of Low-Voltage Pentacene-Based Organic Phototransistors. *ECS Transactions*, **2013**, 50, 229-234	1	1
94	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
93	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

92	Control of intramolecular π-stacking interaction in cationic iridium complexes via fluorination of pendant phenyl rings. *Inorganic Chemistry*, **2012**, 51, 4502-10	5.1	55
91	Small molecular phosphorescent organic light-emitting diodes using a spin-coated hole blocking layer. *Applied Physics Letters*, **2012**, 100, 083304	3.4	19
90	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
89	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
88	Star-shaped dendritic hosts based on carbazole moieties for highly efficient blue phosphorescent OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 12016		52
87	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
86	Synthesis of carbazole-based dendrimer: host material for highly efficient solution-processed blue organic electrophosphorescent diodes. *Tetrahedron*, **2012**, 68, 5800-5805	2.4	12
85	Synthesis of new bipolar materials based on diphenylphosphine oxide and triphenylamine units: efficient host for deep-blue phosphorescent organic light-emitting diodes. *Tetrahedron*, **2012**, 68, 9672-9678	2.4	9
84	The understanding of the memory nature and mechanism of the Ta2O5-gate-dielectric-based organic phototransistor memory. *Organic Electronics*, **2012**, 13, 2917-2923	3.5	9
83	Dark current and photovoltage models on the formation of depletion region in C60/NPB organic heterojunctions. *Organic Electronics*, **2012**, 13, 3276-3283	3.5	9
82	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
81	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
80	New Method of Mobility Measurement for Organic Semiconductors by Optoelectronic Coupling. *Journal of Physical Chemistry C*, **2012**, 116, 5235-5239	3.8	7
79	Experimental and theoretical study of the charge transport property of 4,4?-N,N?-dicarbazole-biphenyl. *Science China Chemistry*, **2012**, 55, 2428-2432	7.9	11
78	Solid-state light-emitting electrochemical cells based on ionic iridium(III) complexes. *Journal of Materials Chemistry*, **2012**, 22, 4206		273
77	Impacts of Sn precursors on solution-processed amorphous zinc-tin oxide films and their transistors. *RSC Advances*, **2012**, 2, 5307	3.7	58
76	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
75	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

74	High-triplet-energy tri-carbazole derivatives as host materials for efficient solution-processed blue phosphorescent devices. *Journal of Materials Chemistry*, **2011**, 21, 4918		114
73	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
72	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
71	Tuning of charge balance in bipolar host materials for highly efficient solution-processed phosphorescent devices. *Organic Letters*, **2011**, 13, 3146-9	6.2	98
70	Modulated intermolecular electrostatic interaction and morphology transition in squarylium dyes based organic field-effect transistors. *Organic Electronics*, **2011**, 12, 1674-1682	3.5	10
69	Preparation and properties of solution-processed zinc tin oxide films from a new organic precursor. *Science China Chemistry*, **2011**, 54, 651-655	7.9	3
68	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
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