Junji Kido

List of Publications by Year
in descending order

360 papers	28,175 citations	5574 82 h-index	5829 161 g-index
371 all docs	371 docs citations	371 times ranked	15252 citing authors

#	Article	IF	Citations
1	Multilayer White Light-Emitting Organic Electroluminescent Device. Science, 1995, 267, 1332-1334.	12.6	1,741
2	Organo Lanthanide Metal Complexes for Electroluminescent Materials. Chemical Reviews, 2002, 102, 2357-2368.	47.7	1,558
3	Recent Progresses on Materials for Electrophosphorescent Organic Lightâ€Emitting Devices. Advanced Materials, 2011, 23, 926-952.	21.0	1,268
4	Anion-exchange red perovskite quantum dots with ammonium iodine salts for highly efficient light-emitting devices. Nature Photonics, 2018, 12, 681-687.	31.4	1,123
5	White lightâ€emitting organic electroluminescent devices using the poly(Nâ€vinylcarbazole) emitter layer doped with three fluorescent dyes. Applied Physics Letters, 1994, 64, 815-817.	3.3	740
6	Singleâ€layer white lightâ€emitting organic electroluminescent devices based on dyeâ€dispersed poly(Nâ€vinylcarbazole). Applied Physics Letters, 1995, 67, 2281-2283.	3.3	620
7	Development of high performance OLEDs for general lighting. Journal of Materials Chemistry C, 2013, 1, 1699.	5.5	614
8	Pyridineâ€Containing Triphenylbenzene Derivatives with High Electron Mobility for Highly Efficient Phosphorescent OLEDs. Advanced Materials, 2008, 20, 2125-2130.	21.0	590
9	Bright organic electroluminescent devices having a metal-doped electron-injecting layer. Applied Physics Letters, 1998, 73, 2866-2868.	3.3	560
10	Highâ€Efficiency Blue and White Organic Lightâ€Emitting Devices Incorporating a Blue Iridium Carbene Complex. Advanced Materials, 2010, 22, 5003-5007.	21.0	506
11	Bright red lightâ€emitting organic electroluminescent devices having a europium complex as an emitter. Applied Physics Letters, 1994, 65, 2124-2126.	3.3	499
12	Pyridine-Containing Bipolar Host Materials for Highly Efficient Blue Phosphorescent OLEDs. Chemistry of Materials, 2008, 20, 1691-1693.	6.7	491
13	Multifunctional Materials in High-Performance OLEDs: Challenges for Solid-State Lighting. Chemistry of Materials, 2011, 23, 621-630.	6.7	486
14	Organic Light-Emitting Devices for Solid-State Lighting. MRS Bulletin, 2008, 33, 663-669.	3.5	381
15	Fabrication of highly efficient organic electroluminescent devices. Applied Physics Letters, 1998, 73, 2721-2723.	3.3	359
16	Ultra High Efficiency Green Organic Light-Emitting Devices. Japanese Journal of Applied Physics, 2007, 46, L10-L12.	1.5	351
17	Nearly 100% Internal Quantum Efficiency in an Organic Blueâ€Light Electrophosphorescent Device Using a Weak Electron Transporting Material with a Wide Energy Gap. Advanced Materials, 2009, 21, 1271-1274.	21.0	347
18	Lowâ€Drivingâ€Voltage Blue Phosphorescent Organic Lightâ€Emitting Devices with External Quantum Efficiency of 30%. Advanced Materials, 2014, 26, 5062-5066.	21.0	308

#	Article	IF	Citations
19	Bright blue electroluminescence from poly(Nâ€vinylcarbazole). Applied Physics Letters, 1993, 63, 2627-2629.	3.3	304
20	Highly Efficient Organic Blueâ€and Whiteâ€Lightâ€Emitting Devices Having a Carrierâ€and Excitonâ€Confining Structure for Reduced Efficiency Rollâ€Off. Advanced Materials, 2008, 20, 4189-4194.	21.0	300
21	High-Efficiency Perovskite Quantum-Dot Light-Emitting Devices by Effective Washing Process and Interfacial Energy Level Alignment. ACS Applied Materials & Interfaces, 2017, 9, 18054-18060.	8.0	289
22	Solution-processed multilayer small-molecule light-emitting devices with high-efficiency white-light emission. Nature Communications, 2014, 5, 5756.	12.8	278
23	Bisanthraceneâ€Based Donorâ€“Acceptorâ€type Lightâ€Emitting Dopants: Highly Efficient Deepâ€Blue Emission in Organic Lightâ€Emitting Devices. Advanced Functional Materials, 2014, 24, 2064-2071.	14.9	278
24	A systematic study on efficiency enhancements in phosphorescent green, red and blue microcavity organic light emitting devices. Light: Science and Applications, 2013, 2, e74-e74.	16.6	259
25	RGB Phosphorescent Organic Light-Emitting Diodes by Using Host Materials with Heterocyclic Cores: Effect of Nitrogen Atom Orientations. Chemistry of Materials, 2011, 23, 274-284.	6.7	251
26	Wide-Energy-Gap Electron-Transport Materials Containing 3,5-Dipyridylphenyl Moieties for an Ultra High Efficiency Blue Organic Light-Emitting Device. Chemistry of Materials, 2008, 20, 5951-5953.	6.7	242
27	Recent Progress in Phosphorescent Organic Lightâ€Emitting Devices. European Journal of Organic Chemistry, 2013, 2013, 7653-7663.	2.4	242
28	Multicolor Organic Light-Emitting Diodes Processed by Hybrid Inkjet Printing. Advanced Materials, 1999, 11, 734-737.	21.0	237
29	Highâ€Performance Green OLEDs Using Thermally Activated Delayed Fluorescence with a Power Efficiency of over 100 lm W^{âˆ’1}. Advanced Materials, 2016, 28, 2638-2643.	21.0	225
30	Highâ€Performance Blue Phosphorescent OLEDs Using Energy Transfer from Exciplex. Advanced Materials, 2014, 26, 1612-1616.	21.0	224
31	High-performance polymer light-emitting diodes doped with a red phosphorescent iridium complex. Applied Physics Letters, 2002, 80, 2308-2310.	3.3	220
32	Organic electroluminescent devices based on molecularly doped polymers. Applied Physics Letters, 1992, 61, 761-763.	3.3	201
33	Squaraine dyes for organic photovoltaic cells. Journal of Materials Chemistry A, 2015, 3, 14517-14534.	10.3	201
34	3,3â€²â€Bicarbazoleâ€Based Host Materials for Highâ€Efficiency Blue Phosphorescent OLEDs with Extremely Low Driving Voltage. Advanced Materials, 2012, 24, 3212-3217.	21.0	194
35	Photoluminescence quantum yield of pure and molecularly doped organic solid films. Journal of Applied Physics, 1999, 86, 2642-2650.	2.5	192
36	1,2,4-Triazole Derivative as an Electron Transport Layer in Organic Electroluminescent Devices. Japanese Journal of Applied Physics, 1993, 32, L917-L920.	1.5	190

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37	Structureâ€“Property Relationship of Pyridineâ€Containing Triphenyl Benzene Electronâ€Transport Materials for Highly Efficient Blue Phosphorescent OLEDs. Advanced Functional Materials, 2009, 19, 1260-1267.	14.9	190
38	Electroluminescence from Polysilane Film Doped with Europium Complex. Chemistry Letters, 1991, 20, 1267-1270.	1.3	171
39	White-Light-Emitting Organic Electroluminescent Device Using Lanthanide Complexes. Japanese Journal of Applied Physics, 1996, 35, L394-L396.	1.5	169
40	High-efficiency stacked white organic light-emitting diodes. Applied Physics Letters, 2008, 92, .	3.3	169
41	Tuning Energy Levels of Electronâ€Transport Materials by Nitrogen Orientation for Electrophosphorescent Devices with an â€˜Idealâ€™ Operating Voltage. Advanced Materials, 2010, 22, 3311-3316.	21.0	166
42	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. Chemistry of Materials, 2017, 29, 8630-8636.	6.7	164
43	Novel Electron-transport Material Containing Boron Atom with a High Triplet Excited Energy Level. Chemistry Letters, 2007, 36, 262-263.	1.3	162
44	Light-blue thermally activated delayed fluorescent emitters realizing a high external quantum efficiency of 25% and unprecedented low drive voltages in OLEDs. Journal of Materials Chemistry C, 2016, 4, 2274-2278.	5.5	162
45	Extremely Low Operating Voltage Green Phosphorescent Organic Lightâ€Emitting Devices. Advanced Functional Materials, 2013, 23, 5550-5555.	14.9	157
46	Coâ€Evaporated Bulk Heterojunction Solar Cells with >6.0% Efficiency. Advanced Materials, 2012, 24, 2768-2773.	21.0	149
47	Molecular Stacking Induced by Intermolecular Câ€“HÂ·Â·Â·N Hydrogen Bonds Leading to High Carrier Mobility in Vacuumâ€Deposited Organic Films. Advanced Functional Materials, 2011, 21, 1375-1382.	14.9	144
48	Ultra-high efficiency by multiple emission from stacked organic light-emitting devices. Organic Electronics, 2011, 12, 710-715.	2.6	143
49	Electroluminescence in a Terbium Complex. Chemistry Letters, 1990, 19, 657-660.	1.3	141
50	Optimizing the Charge Balance of Fluorescent Organic Lightâ€Emitting Devices to Achieve High External Quantum Efficiency Beyond the Conventional Upper Limit. Advanced Materials, 2012, 24, 1765-1770.	21.0	141
51	27.5L: Late-News Paper: Multiphoton Organic EL device having Charge Generation Layer. Digest of Technical Papers SID International Symposium, 2003, 34, 979.	0.3	140
52	Influence of Substituted Pyridine Rings on Physical Properties and Electron Mobilities of 2-Methylpyrimidine Skeleton-Based Electron Transporters. Advanced Functional Materials, 2011, 21, 336-342.	14.9	139
53	Solutionâ€Processed White Phosphorescent Tandem Organic Lightâ€Emitting Devices. Advanced Materials, 2015, 27, 4681-4687.	21.0	135
54	Organic electroluminescent devices using lanthanide complexes. Journal of Alloys and Compounds, 1993, 192, 30-33.	5.5	134

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55	Energy transfer and triplet exciton confinement in polymeric electrophosphorescent devices. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2681-2690.	2.1	131
56	2-Phenylpyrimidine skeleton-based electron-transport materials for extremely efficient green organic light-emitting devices. Chemical Communications, 2008, , 5821.	4.1	130
57	High-performance pure blue phosphorescent OLED using a novel bis-heteroleptic iridium(iii) complex with fluorinated bipyridyl ligands. Journal of Materials Chemistry C, 2013, 1, 1070.	5.5	129
58	Pyridineâ€Containing Electronâ€Transport Materials for Highly Efficient Blue Phosphorescent OLEDs with Ultralow Operating Voltage and Reduced Efficiency Rollâ€Off. Advanced Functional Materials, 2014, 24, 3268-3275.	14.9	127
59	Novel Four-Pyridylbenzene-Armed Biphenyls as Electron-Transport Materials for Phosphorescent OLEDs. Organic Letters, 2008, 10, 941-944.	4.6	125
60	A <i>m</i>-Terphenyl-Modifed Sulfone Derivative as a Host Material for High-Efficiency Blue and Green Phosphorescent OLEDs. Chemistry of Materials, 2012, 24, 1404-1406.	6.7	125
61	High Luminous Efficiency Blue Organic Light-Emitting Devices Using High Triplet Excited Energy Materials. Japanese Journal of Applied Physics, 2007, 46, L117-L119.	1.5	122
62	A Series of Squaraine Dyes: Effects of Side Chain and the Number of Hydroxyl Groups on Material Properties and Photovoltaic Performance. Chemistry of Materials, 2014, 26, 1356-1364.	6.7	119
63	High-Efficiency Green Phosphorescent Organic Light-Emitting Devices with Chemically Doped Layers. Japanese Journal of Applied Physics, 2007, 46, 1186-1188.	1.5	117
64	Ultrahigh efficiency green polymer light-emitting diodes by nanoscale interface modification. Applied Physics Letters, 2003, 83, 4695-4697.	3.3	113
65	Blue thermally activated delayed fluorescence materials based on bis(phenylsulfonyl)benzene derivatives. Chemical Communications, 2015, 51, 16353-16356.	4.1	112
66	Simultaneous Realization of High EQE of 30%, Low Drive Voltage, and Low Efficiency Rollâ€Off at High Brightness in Blue Phosphorescent OLEDs. Advanced Optical Materials, 2016, 4, 86-90.	7.3	109
67	A Matrix-Isolation Spectroscopic and Theoretical Investigation of Tris(8-hydroxyquinolinato)aluminum(III) and Tris(4-methyl-8-hydroxyquinolinato)aluminum(III)â€. Journal of Physical Chemistry A, 2000, 104, 3670-3680.	2.5	108
68	Synthesis and electroluminescent property of poly(p-phenylenevinylene)s bearing triarylamine pendants. Polymer, 2005, 46, 3767-3775.	3.8	104
69	Poly(methylphenylsilane) film as a hole transport layer in electroluminescent devices. Applied Physics Letters, 1991, 59, 2760-2762.	3.3	103
70	Purification of Perovskite Quantum Dots Using Low-Dielectric-Constant Washing Solvent â€œDiglymeâ€• for Highly Efficient Light-Emitting Devices. ACS Applied Materials & Interfaces, 2018, 10, 24607-24612.	8.0	102
71	Flexible Organic Light-Emitting Diode Displays Driven by Inkjet-Printed High-Mobility Organic Thin-Film Transistors. IEEE Electron Device Letters, 2018, 39, 39-42.	3.9	98
72	Synthesis and electroluminescence properties of highly efficient blue fluorescence emitters using dual core chromophores. Journal of Materials Chemistry C, 2013, 1, 432-440.	5.5	97

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73	Organic Electroluminescent Devices with a Vacuum-Deposited Lewis-Acid-Doped Hole-Injecting Layer. Japanese Journal of Applied Physics, 2002, 41, L358-L360.	1.5	93
74	J-aggregation of a squaraine dye and its application in organic photovoltaic cells. Journal of Materials Chemistry C, 2013, 1, 6547.	5.5	91
75	Manipulating the Electronic Excited State Energies of Pyrimidine-Based Thermally Activated Delayed Fluorescence Emitters To Realize Efficient Deep-Blue Emission. ACS Applied Materials & Interfaces, 2017, 9, 4742-4749.	8.0	91
76	Fabrication of Organic Lightâ€Emitting Devices Comprising Stacked Lightâ€Emitting Units by Solutionâ€Based Processes. Advanced Materials, 2015, 27, 1327-1332.	21.0	90
77	Dual efficiency enhancement by delayed fluorescence and dipole orientation in high-efficiency fluorescent organic light-emitting diodes. Applied Physics Letters, 2011, 99, .	3.3	89
78	Three-carbazole-armed host materials with various cores for RGB phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 3447.	6.7	88
79	High-efficiency red, green and blue phosphorescent homojunction organic light-emitting diodes based on bipolar host materials. Organic Electronics, 2011, 12, 843-850.	2.6	86
80	Instant Lowâ€Temperature Crossâ€Linking of Poly(<i>N</i>â€vinylcarbazole) for Solutionâ€Processed Multilayer Blue Phosphorescent Organic Lightâ€Emitting Devices. Advanced Materials, 2014, 26, 7543-7546.	21.0	85
81	A Novel Triphenylamine-Substituted Poly(p-phenylenevinylene):Â Improved Photo- and Electroluminescent Properties. Chemistry of Materials, 2001, 13, 3817-3819.	6.7	84
82	m-Terphenyl-modified carbazole host material for highly efficient blue and green PHOLEDS. Chemical Communications, 2009, , 6655.	4.1	83
83	Review of Molecular Engineering for Horizontal Molecular Orientation in Organic Light-Emitting Devices. Bulletin of the Chemical Society of Japan, 2019, 92, 716-728.	3.2	82
84	Electronegative Oligothiophenes Based on Difluorodioxocyclopentene-Annelated Thiophenes:â€‰ Synthesis, Properties, and n-Type FET Performances. Organic Letters, 2008, 10, 833-836.	4.6	81
85	Bright organic electroluminescent devices with double-layer cathode. IEEE Transactions on Electron Devices, 1993, 40, 1342-1344.	3.0	79
86	27.1: Invited Paper: High Efficiency Organic EL Devices having Charge Generation Layers. Digest of Technical Papers SID International Symposium, 2003, 34, 964.	0.3	74
87	Origin of Enhanced Hole Injection in Inverted Organic Devices with Electron Accepting Interlayer. Advanced Functional Materials, 2012, 22, 3261-3266.	14.9	73
88	Significant Enhancement of Blue OLED Performances through Molecular Engineering of Pyrimidineâ€Based Emitter. Advanced Optical Materials, 2017, 5, 1600843.	7.3	73
89	Highly efficient, deep-red organic light-emitting devices using energy transfer from exciplexes. Journal of Materials Chemistry C, 2017, 5, 527-530.	5.5	72
90	Recent progress of pyrimidine derivatives for high-performance organic light-emitting devices. Journal of Photonics for Energy, 2018, 8, 1.	1.3	70

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91	Solution-processed organic photovoltaic cells based on a squaraine dye. Physical Chemistry Chemical Physics, 2012, 14, 14661.	2.8	69
92	Solution-processable electron injection materials for organic light-emitting devices. Journal of Materials Chemistry C, 2015, 3, 11567-11576.	5.5	68
93	Achieving 20% Efficiency for Lowâ€Temperatureâ€Processed Inverted Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1807556.	14.9	68
94	Solution-processable organic fluorescent dyes for multicolor emission in organic light emitting diodes. Journal of Materials Chemistry, 2008, 18, 4183.	6.7	67
95	Ultra high-efficiency multi-photon emission blue phosphorescent OLEDs with external quantum efficiency exceeding 40%. Organic Electronics, 2012, 13, 2615-2619.	2.6	66
96	Exciton quenching in highly efficient europium-complex based organic light-emitting diodes. Organic Electronics, 2006, 7, 29-37.	2.6	65
97	Singlet Fission of Nonâ€polycyclic Aromatic Molecules in Organic Photovoltaics. Advanced Materials, 2016, 28, 1585-1590.	21.0	64
98	Efficient Electroluminescence from Tris(4-methyl-8-quinolinolato)aluminum(III). Chemistry Letters, 1997, 26, 963-964.	1.3	62
99	A minimal non-radiative recombination loss for efficient non-fullerene all-small-molecule organic solar cells with a low energy loss of 0.54ÂeV and high open-circuit voltage of 1.15 V. Journal of Materials Chemistry A, 2018, 6, 13918-13924.	10.3	62
100	Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds. Advanced Materials, 2019, 31, e1808300.	21.0	62
101	Solution-Processed Inorganicâ€"Organic Hybrid Electron Injection Layer for Polymer Light-Emitting Devices. ACS Applied Materials & Interfaces, 2012, 4, 6104-6108.	8.0	61
102	Low-Band-Gap Small Molecule for Efficient Organic Solar Cells with a Low Energy Loss below 0.6 eV and a High Open-Circuit Voltage of over 0.9 V. ACS Energy Letters, 2017, 2, 2021-2025.	17.4	61
103	Facile synthesis of multi-resonance ultra-pure-green TADF emitters based on bridged diarylamine derivatives for efficient OLEDs with narrow emission. Journal of Materials Chemistry C, 2021, 9, 8308-8313.	5.5	59
104	A host material with a small singletâ€"triplet exchange energy for phosphorescent organic light-emitting diodes: Guest, host, and exciplex emission. Organic Electronics, 2012, 13, 1937-1947.	2.6	57
105	High-efficiency simple planar heterojunction organic thin-film photovoltaics with horizontally oriented amorphous donors. Solar Energy Materials and Solar Cells, 2012, 98, 472-475.	6.2	57
106	Highly efficient organic pâ€"iâ€"n photovoltaic cells based on tetraphenyldibenzoperiflanthene and fullerene C₇₀. Energy and Environmental Science, 2013, 6, 249-255.	30.8	57
107	A Solution-Processed Organic Thin-Film Transistor Backplane for Flexible Multiphoton Emission Organic Light-Emitting Diode Displays. IEEE Electron Device Letters, 2015, 36, 841-843.	3.9	56
108	Organic Electroluminescent Devices Having Metal Complexes as Cathode Interface Layer. Japanese Journal of Applied Physics, 2002, 41, L800-L803.	1.5	55

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109	Excimer-emitting single molecules with stacked Ï€-conjugated groups covalently linked at the 1,8-positions of naphthalene for highly efficient blue and green OLEDs. Journal of Materials Chemistry C, 2013, 1, 3871.	5.5	55
110	Thermally cross-linkable host materials for enabling solution-processed multilayer stacks in organic light-emitting devices. Organic Electronics, 2013, 14, 1614-1620.	2.6	54
111	High efficiency solution processed OLEDs using a thermally activated delayed fluorescence emitter. Synthetic Metals, 2015, 202, 165-168.	3.9	54
112	A single-molecule excimer-emitting compound for highly efficient fluorescent organic light-emitting devices. Chemical Communications, 2012, 48, 8434.	4.1	53
113	Syntheses and Properties of Novel Quarterphenylene-based Materials for Blue Organic Light-emitting Devices. Chemistry Letters, 2007, 36, 316-317.	1.3	52
114	Blue Perovskite Nanocrystal Lightâ€Emitting Devices via the Ligand Exchange with Adamantane Diamine. Advanced Optical Materials, 2020, 8, 2000289.	7.3	52
115	Optical and electrical properties of a squaraine dye in photovoltaic cells. Applied Physics Letters, 2012, 101, 083904.	3.3	51
116	A Solution-Processed Heteropoly Acid Containing MoO₃ Units as a Hole-Injection Material for Highly Stable Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2016, 8, 20946-20954.	8.0	50
117	Lead halide perovskite quantum dots for light-emitting devices. Journal of Materials Chemistry C, 2018, 6, 11868-11877.	5.5	47
118	A Series of Imidazo[1,2â€f]phenanthridineâ€Based Skyâ€Blue TADF Emitters Realizing EQE of over 20%. Advanced Optical Materials, 2019, 7, 1801282.	7.3	47
119	Molecularly Doped Polymers as a Hole Transport Layer in Organic Electroluminescent Devices. Japanese Journal of Applied Physics, 1992, 31, L960-L962.	1.5	46
120	Hybrid Heterocycle-Containing Electron-Transport Materials Synthesized by Regioselective Suzuki Cross-Coupling Reactions for Highly Efficient Phosphorescent OLEDs with Unprecedented Low Operating Voltage. Chemistry of Materials, 2012, 24, 3817-3827.	6.7	45
121	A Series of Dibenzofuranâ€Based nâ€Type Exciplex Host Partners Realizing Highâ€Efficiency and Stable Deepâ€Red Phosphorescent OLEDs. Chemistry - A European Journal, 2019, 25, 7308-7314.	3.3	45
122	Lithium phenolate complexes for an electron injection layer in organic light-emitting diodes. Organic Electronics, 2009, 10, 228-232.	2.6	44
123	An Î±-Carboline-containing Host Material for High-efficiency Blue and Green Phosphorescent OLEDs. Chemistry Letters, 2011, 40, 306-308.	1.3	44
124	Synthesis and properties of organosilicon polymers containing 9,10-diethynylanthracene units with highly hole-transporting properties. Journal of Organometallic Chemistry, 1999, 592, 52-60.	1.8	43
125	Organic displays. Physics World, 1999, 12, 27-30.	0.0	43
126	Synthesis, properties, and OLED characteristics of 2,2â€²-bipyridine-based electron-transport materials: the synergistic effect of molecular shape anisotropy and a weak hydrogen-bonding network on molecular orientation. Journal of Materials Chemistry C, 2016, 4, 3699-3704.	5.5	43

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127	Solution-processed organic light-emitting devices with two polymer light-emitting units connected in series by a charge-generation layer. Journal of Materials Chemistry, 2012, 22, 22769.	6.7	41
128	Highly Efficient Electronâ€Transporting/Injecting and Thermally Stable Naphthyridines for Organic Electrophosphorescent Devices. Advanced Functional Materials, 2013, 23, 1323-1330.	14.9	41
129	Natural Photosynthetic Carotenoids for Solution-Processed Organic Bulk-Heterojunction Solar Cells. Journal of Physical Chemistry C, 2013, 117, 804-811.	3.1	40
130	Cyano-substitution on the end-capping group: facile access toward asymmetrical squaraine showing strong dipoleâ€“dipole interactions as a high performance small molecular organic solar cells material. Journal of Materials Chemistry A, 2015, 3, 17704-17712.	10.3	40
131	Asymmetrical Squaraines Bearing Fluorine-Substituted Indoline Moieties for High-Performance Solution-Processed Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 13675-13684.	8.0	39
132	Solution-processable carbazole-based host materials for phosphorescent organic light-emitting devices. Organic Electronics, 2012, 13, 2235-2242.	2.6	37
133	Molecular Interdiffusion between Stacked Layers by Solution and Thermal Annealing Processes in Organic Light Emitting Devices. ACS Applied Materials & Interfaces, 2015, 7, 20779-20785.	8.0	37
134	Electroluminescent Poly(arylene ether) Containing Both Hole-Transporting and Electron-Transporting Units. Chemistry Letters, 1996, 25, 161-162.	1.3	36
135	Multilayer electroluminescent device using organosilicon polymer as hole transport layer. Synthetic Metals, 1997, 91, 333-334.	3.9	36
136	High-efficiency organic electroluminescent devices using iridium complex emitter and arylamine-containing polymer buffer layer. Polymers for Advanced Technologies, 2002, 13, 601-604.	3.2	36
137	Airâ€Stable and Highâ€Performance Solutionâ€Processed Organic Lightâ€Emitting Devices Based on Hydrophobic Polymeric Ionic Liquid Carrierâ€Injection Layers. Advanced Materials, 2018, 30, e1705915.	21.0	36
138	A Novel Sterically Bulky Hole Transporter to Remarkably Improve the Lifetime of Thermally Activated Delayed Fluorescent OLEDs at High Brightness. Chemistry - A European Journal, 2018, 24, 4590-4596.	3.3	36
139	Wideâ€Range Refractive Index Control of Organic Semiconductor Films Toward Advanced Optical Design of Organic Optoelectronic Devices. Advanced Materials, 2012, 24, 6368-6373.	21.0	35
140	High performance semitransparent phosphorescent white organic light emitting diodes with bi-directional and symmetrical illumination. Applied Physics Letters, 2013, 102, 153308.	3.3	34
141	An Indolocarbazoleâ€Based Thermally Activated Delayed Fluorescence Host for Solutionâ€Processed Phosphorescent Tandem Organic Lightâ€Emitting Devices Exhibiting Extremely Small Efficiency Rollâ€Off. Advanced Functional Materials, 2019, 29, 1808022.	14.9	34
142	Photo- and electro-luminescent properties of thermotropic liquid crystalline quaterphenyl analogues comprising a 2,2'-bi-1,3,4-thiadiazole unit. Liquid Crystals, 2001, 28, 1211-1214.	2.2	33
143	Simultaneous Manipulation of Intramolecular and Intermolecular Hydrogen Bonds in nâ€Type Organic Semiconductor Layers: Realization of Horizontal Orientation in OLEDs. Advanced Optical Materials, 2015, 3, 769-773.	7.3	33
144	Neodymium Chloride-Doped Perovskite Nanocrystals for Efficient Blue Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 53891-53898.	8.0	33

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145	An unpaired electron-based hole-transporting molecule: Triarylamine-combined nitroxide radicals. Chemical Communications, 2007, , 2986.	4.1	32
146	Addition of Lithium 8-Quinolate into Polyethylenimine Electron-Injection Layer in OLEDs: Not Only Reducing Driving Voltage but Also Improving Device Lifetime. ACS Applied Materials & Interfaces, 2017, 9, 18113-18119.	8.0	32
147	Time-of-Flight Measurement of Hole Mobility in Aluminum (III) Complexes. Japanese Journal of Applied Physics, 1999, 38, L1252-L1254.	1.5	31
148	Triphenylamine- and oxadiazole-substituted poly(1,4-phenylenevinylene)s: synthesis, photo-, and electroluminescent properties. Synthetic Metals, 2004, 143, 207-214.	3.9	31
149	Synthesis and electrochemical and electroluminescent properties ofN-phenylcarbazole-substituted poly(p-phenylenevinylene). Journal of Polymer Science Part A, 2005, 43, 5765-5773.	2.3	31
150	Soluble squaraine derivatives for 4.9% efficient organic photovoltaic cells. RSC Advances, 2014, 4, 42804-42807.	3.6	31
151	Natural-photosynthesis-inspired photovoltaic cells using carotenoid aggregates as electron donors and chlorophyll derivatives as electron acceptors. RSC Advances, 2015, 5, 45755-45759.	3.6	31
152	A series of fluorinated phenylpyridine-based electron-transporters for blue phosphorescent OLEDs. Journal of Materials Chemistry C, 2016, 4, 1104-1110.	5.5	31
153	An effective Ï€-extended squaraine for solution-processed organic solar cells with high efficiency. Journal of Materials Chemistry A, 2016, 4, 18931-18941.	10.3	30
154	Simultaneous realization of high-efficiency, low-drive voltage, and long lifetime TADF OLEDs by multifunctional hole-transporters. Journal of Materials Chemistry C, 2020, 8, 7200-7210.	5.5	30
155	Efficient Electron Injection by Size- and Shape-Controlled Zinc Oxide Nanoparticles in Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2015, 7, 25373-25377.	8.0	29
156	Influence of solution- and thermal-annealing processes on the sub-nanometer-ordered organicâ€“organic interface structure of organic light-emitting devices. Nanoscale, 2017, 9, 25-30.	5.6	29
157	Unlocking the Potential of Pyrimidine Conjugate Emitters to Realize Highâ€Performance Organic Lightâ€Emitting Devices. Advanced Optical Materials, 2017, 5, 1600675.	7.3	29
158	High luminescence and external quantum efficiency in perovskite quantum-dots light-emitting diodes featuring bilateral affinity to silver and short alkyl ligands. Chemical Engineering Journal, 2021, 414, 128866.	12.7	29
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