

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

221 papers	3,827 citations	32 h-index	51 g-index
235 ext. papers	4,579 ext. citations	4.4 avg, IF	5.64 L-index

#	Paper	IF	Citations
221	Highly efficient blue thermally activated delayed fluorescence emitters based on symmetrical and rigid oxygen-bridged boron acceptors. <i>Nature Photonics</i> , 2019 , 13, 540-546	33.9	364
220	Highly efficient red phosphorescent dopants in organic light-emitting devices. <i>Advanced Materials</i> , 2011 , 23, 2721-6	24	189
219	Ideal host and guest system in phosphorescent OLEDs. <i>Organic Electronics</i> , 2009 , 10, 240-246	3.5	165
218	Low roll-off efficiency green phosphorescent organic light-emitting devices with simple double emissive layer structure. <i>Applied Physics Letters</i> , 2008 , 93, 063303	3.4	88
217	Efficient simple structure red phosphorescent organic light emitting devices with narrow band-gap fluorescent host. <i>Applied Physics Letters</i> , 2008 , 92, 113308	3.4	74
216	Transparent indium zinc oxide top cathode prepared by plasma damage-free sputtering for top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 88, 012103	3.4	70
215	Small molecule interlayer for solution processed phosphorescent organic light emitting device. <i>Organic Electronics</i> , 2009 , 10, 189-193	3.5	61
214	Highly Efficient Deep Blue Fluorescent Organic Light-Emitting Diodes Boosted by Thermally Activated Delayed Fluorescence Sensitization. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10246-10253	10.5	59
213	High efficiency and low power consumption in active matrix organic light emitting diodes. <i>Organic Electronics</i> , 2003 , 4, 143-148	3.5	58
212	High-performance bipolar host materials for blue TADF devices with excellent external quantum efficiencies. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4512-4520	7.1	58
211	Controlling the exciton lifetime of blue thermally activated delayed fluorescence emitters using a heteroatom-containing pyridindole donor moiety. <i>Materials Horizons</i> , 2017 , 4, 619-624	14.4	57
210	Highly Twisted Donor-Acceptor Boron Emitter and High Triplet Host Material for Highly Efficient Blue Thermally Activated Delayed Fluorescent Device. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14909-14916	9.5	57
209	Highly efficient bilayer green phosphorescent organic light emitting devices. <i>Applied Physics Letters</i> , 2008 , 92, 113311	3.4	57
208	A highly efficient transition metal oxide layer for hole extraction and transport in inverted polymer bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6895	13	53
207	A new rigid diindolocarbazole donor moiety for high quantum efficiency thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1343-1348	7.1	50
206	Small single-triplet energy gap bipolar host materials for phosphorescent blue and white organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5008	7.1	50
205	Soluble processed low-voltage and high efficiency blue phosphorescent organic light-emitting devices using small molecule host systems. <i>Organic Electronics</i> , 2012 , 13, 586-592	3.5	48

204	High current conduction with high mobility by non-radiative charge recombination interfaces in organic semiconductor devices. <i>Organic Electronics</i> , 2012 , 13, 939-944	3.5	47
203	High-efficiency blue phosphorescent organic light-emitting diodes using a carbazole and carboline-based host material. <i>Chemical Communications</i> , 2013 , 49, 6788-90	5.8	47
202	Diphenanthroline Electron Transport Materials for the Efficient Charge Generation Unit in Tandem Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2017 , 29, 8299-8312	9.6	45
201	Acceptor-Donor-Acceptor-Type Orange-Red Thermally Activated Delayed Fluorescence Materials Realizing External Quantum Efficiency Over 30% with Low Efficiency Roll-Off. <i>Advanced Materials</i> , 2021 , 33, e2007724	24	44
200	Open-circuit voltage dependency on hole-extraction layers in planar heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 023308	3.4	42
199	Unconventional Three-Armed Luminogens Exhibiting Both Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence Resulting in High-Performing Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14966-14977	9.5	41
198	Low voltage efficient simple p-i-n type electrophosphorescent green organic light-emitting devices. <i>Applied Physics Letters</i> , 2009 , 94, 133303	3.4	40
197	New interfacial materials for rapid hole-extraction in organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4077	13	39
196	High hole mobility hole transport material for organic light-emitting devices. <i>Synthetic Metals</i> , 2013 , 180, 79-84	3.6	39
195	Color stable phosphorescent white organic light-emitting diodes with double emissive layer structure. <i>Organic Electronics</i> , 2013 , 14, 1183-1188	3.5	39
194	New bipolar host materials for realizing blue phosphorescent organic light-emitting diodes with high efficiency at 1000 cd/m ² . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19808-15	9.5	37
193	Efficient micro-cavity top emission OLED with optimized Mg:Ag ratio cathode. <i>Optics Express</i> , 2017 , 25, 29906-29915	3.3	35
192	Efficient multiple triplet quantum well structures in organic light-emitting devices. <i>Applied Physics Letters</i> , 2009 , 95, 103303	3.4	35
191	External Quantum Efficiency Exceeding 24% with CIE Value of 0.08 using a Novel Carbene-Based Iridium Complex in Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2002120	24	34
190	Plasma damage-free deposition of Al cathode on organic light-emitting devices by using mirror shape target sputtering. <i>Applied Physics Letters</i> , 2004 , 85, 4295	3.4	33
189	High efficiency red phosphorescent organic light-emitting diodes with single layer structure. <i>Organic Electronics</i> , 2010 , 11, 179-183	3.5	32
188	High efficiency green TADF emitters of acridine donor and triazine acceptor DAD structures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7672-7680	7.1	30
187	Achieving Narrow FWHM and High EQE Over 38% in Blue OLEDs Using Rigid Heteroatom-Based Deep Blue TADF Sensitized Host. <i>Advanced Functional Materials</i> , 2105805	15.6	30

- 186 Color-Tunable Boron-Based Emitters Exhibiting Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for Efficient Solution-Processable Nondoped Deep-Blue to Sky-Blue OLEDs. *Advanced Optical Materials*, **2020**, 8, 1902175 8.1 30
- 185 High efficiency red top-emitting micro-cavity organic light emitting diodes. *Optics Express*, **2014**, 22, 19913-29 3.5 29
- 184 Rigid Oxygen-Bridged Boron-Based Blue Thermally Activated Delayed Fluorescence Emitter for Organic Light-Emitting Diode: Approach towards Satisfying High Efficiency and Long Lifetime Together. *Advanced Optical Materials*, **2020**, 8, 2000102 8.1 28
- 183 Chromenopyrazole-Based Bipolar Blue Host Materials for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. *Chemistry of Materials*, **2018**, 30, 5005-5012 9.6 28
- 182 Optimized structure of silane-core containing host materials for highly efficient blue TADF OLEDs. *Journal of Materials Chemistry C*, **2017**, 5, 6570-6577 7.1 27
- 181 Highly Efficient Bipolar Host Materials with Indenocarbazole and Pyrimidine Moieties for Phosphorescent Green Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2014**, 118, 28757-28763 3.8 27
- 180 The effect of C60 doping on the device performance of organic light-emitting diodes. *Applied Physics Letters*, **2005**, 86, 063514 3.4 26
- 179 Device performances of third order micro-cavity green top-emitting organic light emitting diodes. *Organic Electronics*, **2015**, 26, 458-463 3.5 25
- 178 Enhanced hole transport in C60-doped hole transport layer. *Applied Physics Letters*, **2006**, 88, 183502 3.4 25
- 177 Highly efficient blue thermally activated delayed fluorescence organic light emitting diodes based on tercarbazole donor and boron acceptor dyads. *Journal of Materials Chemistry C*, **2020**, 8, 2272-2279 7.1 25
- 176 Diketopyrrolopyrrole-based copolymers bearing highly extended donating units and their thin-film transistors and photovoltaic cells. *Polymer Chemistry*, **2015**, 6, 150-159 4.9 24
- 175 Novel dendritic large molecules as solution-processable thermally activated delayed fluorescent emitters for simple structured non-doped organic light emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 1160-1170 7.1 24
- 174 Thermally stable efficient hole transporting materials based on carbazole and triphenylamine core for red phosphorescent OLEDs. *Organic Electronics*, **2017**, 51, 463-470 3.5 23
- 173 High-Performance Electrochromic Optical Shutter Based on Fluoran Dye for Visibility Enhancement of Augmented Reality Display. *Advanced Optical Materials*, **2018**, 6, 1701382 8.1 23
- 172 Resonant tunneling diode made of organic semiconductor superlattice. *Applied Physics Letters*, **2006**, 89, 151114 3.4 23
- 171 Recent Advancement in Boron-Based Efficient and Pure Blue Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Diodes. *Frontiers in Chemistry*, **2020**, 8, 373 5 23
- 170 Efficient Cadmium-Free Inverted Red Quantum Dot Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 36917-36924 9.5 22
- 169 Efficient light harvesting in inverted polymer solar cells using polymeric 2D-microstructures. *Solar Energy Materials and Solar Cells*, **2016**, 151, 162-168 6.4 21

168	Highly efficient bipolar host materials towards solution-processable blue and green thermally activated delayed fluorescence organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10000-10009	7.1	19
167	Di(biphenyl)silane and carbazole based bipolar host materials for highly efficient blue phosphorescent OLEDs. <i>Dyes and Pigments</i> , 2017 , 136, 8-16	4.6	19
166	High hole mobility through charge recombination interface in organic light-emitting diodes. <i>Synthetic Metals</i> , 2011 , 161, 2087-2091	3.6	19
165	Balancing the white emission of OLED by a design of fluorescent blue and phosphorescent green/red emitting layer structures. <i>Synthetic Metals</i> , 2009 , 159, 325-330	3.6	19
164	Triplet state and phosphorescence of hole-transport layer and its triplet exciton confinement. <i>Chemical Physics Letters</i> , 2010 , 499, 226-230	2.5	19
163	Optical Design and Optimization of Highly Efficient Sunlight-like Three-Stacked Warm White Organic Light Emitting Diodes. <i>ACS Photonics</i> , 2018 , 5, 655-662	6.3	19
162	Low absorption semi-transparent cathode for micro-cavity top-emitting organic light emitting diodes. <i>Organic Electronics</i> , 2018 , 52, 153-158	3.5	18
161	Next generation smart window display using transparent organic display and light blocking screen. <i>Optics Express</i> , 2018 , 26, 8493-8502	3.3	18
160	Highly efficient soluble materials for blue phosphorescent organic light-emitting diode. <i>Dyes and Pigments</i> , 2012 , 95, 221-228	4.6	18
159	Small molecule host system for solution-processed red phosphorescent OLEDs. <i>Synthetic Metals</i> , 2010 , 160, 631-635	3.6	18
158	Good Charge Balanced Inverted Red InP/ZnSe/ZnS-Quantum Dot Light-Emitting Diode with New High Mobility and Deep HOMO Level Hole Transport Layer. <i>ACS Energy Letters</i> , 2020 , 5, 3868-3875	20.1	18
157	Highly efficient single-stack hybrid cool white OLED utilizing blue thermally activated delayed fluorescent and yellow phosphorescent emitters. <i>Scientific Reports</i> , 2018 , 8, 16263	4.9	18
156	An efficient nano-composite layer for highly transparent organic light emitting diodes. <i>Nanoscale</i> , 2014 , 6, 3810-7	7.7	17
155	Highly efficient yellow phosphorescent organic light-emitting diodes for two-peak tandem white organic light-emitting diode applications. <i>Journal of Information Display</i> , 2013 , 14, 109-113	4.1	17
154	Efficiency optimization of green phosphorescent organic light-emitting device. <i>Thin Solid Films</i> , 2011 , 519, 3259-3263	2.2	17
153	Efficiency Control in Iridium Complex-Based Phosphorescent Light-Emitting Diodes. <i>Advances in Materials Science and Engineering</i> , 2012 , 2012, 1-14	1.5	17
152	Molecularly doped electrophosphorescent emitters for solution processed and laser patterned devices. <i>Thin Solid Films</i> , 2007 , 515, 4011-4015	2.2	17
151	Bipolar Host Materials for Green Triplet Emitter in Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2007 , 36, 1156-1157	1.7	17

150	Carboline-based bipolar host materials for deep blue thermally activated delayed fluorescence OLEDs with high efficiency and low roll-off characteristic.. <i>RSC Advances</i> , 2018 , 8, 17025-17033	3.7	16
149	Novel molecular triad exhibiting aggregation-induced emission and thermally activated fluorescence for efficient non-doped organic light-emitting diodes. <i>Chemical Communications</i> , 2019 , 55, 9475-9478	5.8	16
148	Efficiency enhancement in fluorescent deep-blue OLEDs by boosting singlet exciton generation through triplet fusion and charge recombination rate. <i>Organic Electronics</i> , 2019 , 70, 1-6	3.5	15
147	Effect of various host characteristics on blue thermally activated delayed fluorescent devices. <i>Organic Electronics</i> , 2018 , 59, 39-44	3.5	15
146	Effectiveness of a polyvinylpyrrolidone interlayer on a zinc oxide film for interfacial modification in inverted polymer solar cells. <i>RSC Advances</i> , 2014 , 4, 49855-49860	3.7	15
145	New Extended diketopyrrolopyrrole-based conjugated molecules for solution-processed solar cells: Influence of effective conjugation length on power conversion efficiency. <i>Dyes and Pigments</i> , 2014 , 108, 7-14	4.6	15
144	High efficiency AMOLED using hybrid of small molecule and polymer materials patterned by laser transfer. <i>Journal of Information Display</i> , 2003 , 4, 1-5	4.1	15
143	21.3: A New Patterning Method for Full-Color Polymer Light-Emitting Devices: Laser Induced Thermal Imaging (LITI). <i>Digest of Technical Papers SID International Symposium</i> , 2002 , 33, 784	0.5	15
142	Highly reliable and transparent Al doped Ag cathode fabricated using thermal evaporation for transparent OLED applications. <i>Organic Electronics</i> , 2020 , 76, 105418	3.5	15
141	Color-Tunable All-Fluorescent White Organic Light-Emitting Diodes with a High External Quantum Efficiency Over 30% and Extended Device Lifetime. <i>Advanced Materials</i> , 2021 , e2103102	24	15
140	All-phosphorescent three-color two-stack tandem white organic light emitting diodes with high-color-rendering index values. <i>Journal of Information Display</i> , 2014 , 15, 185-189	4.1	13
139	Tail states recombination limit of the open circuit voltage in bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2012 , 13, 230-234	3.5	13
138	Efficient hole injection material for low operating voltage blue fluorescent organic light emitting diodes. <i>Thin Solid Films</i> , 2015 , 589, 105-110	2.2	13
137	Microcavity Effect of Top-emission Organic Light-emitting Diodes Using Aluminum Cathode and Anode. <i>Bulletin of the Korean Chemical Society</i> , 2005 , 26, 1344-1346	1.2	13
136	Triazine-dibenzocarbazole based bipolar host materials for highly luminescent green and yellow phosphorescent organic light emitting diodes. <i>Dyes and Pigments</i> , 2019 , 163, 607-614	4.6	13
135	Thermally Activated Delayed Fluorescence Behavior Investigation in the Different Polarity Acceptor and Donor Molecules. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1305-1314	3.8	12
134	Spirobifluorene Core-Based Novel Hole Transporting Materials for Red Phosphorescence OLEDs. <i>Molecules</i> , 2017 , 22,	4.8	12
133	Utilizing triazine/pyrimidine acceptor and carbazole-triphenylamine donor based bipolar novel host materials for highly luminescent green phosphorescent OLEDs with lower efficiency roll-off. <i>Dyes and Pigments</i> , 2018 , 157, 377-384	4.6	12

132	Electro-optically Efficient and Thermally Stable Multilayer Semitransparent Pristine Ag Cathode Structure for Top-Emission Organic Light-Emitting Diodes. <i>ACS Photonics</i> , 2019 , 6, 2957-2965	6.3	12
131	Solution-processed bulk heterojunction organic solar cells with high polarity small molecule sensitizer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2069-2076	6.4	12
130	High efficiency and long lifetime in organic light-emitting diodes using bilayer electron injection structure. <i>Synthetic Metals</i> , 2009 , 159, 1292-1294	3.6	12
129	High efficiency green phosphorescent OLEDs with triplet exciton confinement architecture. <i>Current Applied Physics</i> , 2011 , 11, 311-314	2.6	12
128	High Efficiency Top-Emission Organic Light Emitting Diodes with Second and Third-Order Microcavity Structure. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R3131-R3137	2	11
127	New bipolar host materials for high performance of phosphorescent green organic light-emitting diodes. <i>RSC Advances</i> , 2015 , 5, 31282-31291	3.7	11
126	Triplet bipolar host materials for solution processed organic light-emitting devices. <i>Organic Electronics</i> , 2010 , 11, 1624-1630	3.5	11
125	Driving voltage reduction and efficiency increase by narrow bandgap host materials in phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2008 , 517, 896-900	2.2	11
124	Phosphorescence Properties of Ir(ppy) ₃ Films. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 1415-1418	1.82	11
123	A New BODIPY Material for Pure Color and Long Lifetime Red Hyperfluorescence Organic Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17882-17891	9.5	11
122	Electrical characterization of N- and P-doped hole and electron only organic devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5606-9	1.3	10
121	Cathode diffusion and degradation mechanism of polymeric light emitting devices. <i>Chemical Physics Letters</i> , 2005 , 413, 205-209	2.5	10
120	An accurate measurement of the dipole orientation in various organic semiconductor films using photoluminescence exciton decay analysis. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7083-7089	3.6	9
119	Thermally Evaporated Organic/Ag/Organic Multilayer Transparent Conducting Electrode for Flexible Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900620	6.4	9
118	Luminance uniformity study of OLED lighting panels depending on OLED device structures. <i>Optics Express</i> , 2015 , 23, 30701-8	3.3	9
117	RGB Color Patterning for AMOLED TVs. <i>Information Display</i> , 2013 , 29, 12-15	0.8	9
116	Solution processed efficient orange phosphorescent organic light-emitting device with small molecule host. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 025101	3	9
115	New Bipolar Green Host Materials Containing Benzimidazole-Carbazole Moiety in Phosphorescent OLEDs. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 841-846	1.2	9

114	Rigid indolocarbazole donor moiety for highly efficient thermally activated delayed fluorescent device. <i>Dyes and Pigments</i> , 2020 , 180, 108485	4.6	8
113	Indenocarbazole based bipolar host materials for highly efficient yellow phosphorescent organic light emitting diodes. <i>Organic Electronics</i> , 2016 , 31, 11-18	3.5	8
112	Novel 9,9'-(1,3-phenylene)bis-9H-carbazole-containing copolymers as hole-transporting and host materials for blue phosphorescent polymer light-emitting diodes. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 707-718	2.5	8
111	High-Efficiency White Polymer Light-Emitting Diodes Based on Blended RGB Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 458, 263-272	0.5	8
110	High transmittance and deep RGB primary electrochromic color filter for high light out-coupling electro-optical devices. <i>Optics Express</i> , 2019 , 27, 25531-25543	3.3	8
109	Deep blue diboron embedded multi-resonance thermally activated delayed fluorescence emitters for narrowband organic light emitting diodes. <i>Chemical Engineering Journal</i> , 2022 , 432, 134381	14.7	8
108	Synthesis and Electroluminescent Properties of OLED Green Dopants Based on BODIPY Derivatives. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 1247-1250	1.2	8
107	Cool white light-emitting three stack OLED structures for AMOLED display applications. <i>Optics Express</i> , 2016 , 24, 28131-28142	3.3	8
106	Solution-processed white organic light-emitting diodes with blue fluorescent and orange-red thermally activated delayed fluorescent dendritic luminogens. <i>Dyes and Pigments</i> , 2019 , 170, 107650	4.6	7
105	Molecular design of large-bandgap host materials and their application to blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 218-224	3.5	7
104	An exploration of N-heterocyclic carbene-based Ir(III) complexes for phosphorescent organic light-emitting diode applications. <i>Dyes and Pigments</i> , 2015 , 123, 132-138	4.6	7
103	Comparative analysis of various indolocarbazole-based emitters on thermally activated delayed fluorescence performances. <i>Organic Electronics</i> , 2019 , 74, 282-289	3.5	7
102	Novel hole transporting materials based on 4-(9H-carbazol-9-yl)triphenylamine derivatives for OLEDs. <i>Molecules</i> , 2014 , 19, 14247-56	4.8	7
101	Observation of phosphorescence from fluorescent organic material Bebq2 using phosphorescent sensitizer. <i>Optical Materials</i> , 2009 , 31, 1755-1758	3.3	7
100	Novel Green Small-molecule Host Materials for Solution-processed Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2008 , 37, 1150-1151	1.7	7
99	2D- π A type cruciform host material with silane core for highly efficient solution-processable green thermally activated delayed fluorescence organic light emitting diodes. <i>Dyes and Pigments</i> , 2019 , 167, 120-126	4.6	6
98	Efficient blue phosphorescent organic light emitting diodes with host engineering. <i>Current Applied Physics</i> , 2015 , 15, 42-47	2.6	6
97	Waterproof perovskites: high fluorescence quantum yield and stability from a methylammonium lead bromide/formate mixture in water. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5873-5881	7.1	6

96	Blue thermally activated delayed fluorescence emitters with a 6-pyridindole donor moiety. <i>New Journal of Chemistry</i> , 2018 , 42, 5532-5539	3.6	6
95	Solution processed n-type mixed metal oxide layer for electron extraction in inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 276-282	6.4	6
94	Novel Star-shaped Hole-transporting Materials Based on Triphenylamine Cores End-capped with Carbazole and Triarylamine Derivatives for use in OLEDs. <i>Bulletin of the Korean Chemical Society</i> , 2015 , 36, 1303-1306	1.2	6
93	Simple-structure white organic light emitting diodes with high color temperature. <i>Current Applied Physics</i> , 2012 , 12, e42-e45	2.6	6
92	Two-color-mixed white organic light-emitting diodes with a high color temperature. <i>Journal of Information Display</i> , 2011 , 12, 51-55	4.1	6
91	48.3: A 2 Inch LTPS AMOLED with an Embedded Lateral p-i-n Photodiode Sensors. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 724	0.5	6
90	The Ideal Doping Concentration in Phosphorescent Organic Light Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 061603	1.4	6
89	High triplet energy bipolar host materials with the combination of dibenzofuran and benziimidazobenzoimidazole moieties for blue thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13811-13818	7.1	6
88	Patternable Semi-Transparent Cathode using Thermal Evaporation for OLED Display Applications. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001101	6.4	6
87	Degradation of OLED performance by exposure to UV irradiation.. <i>RSC Advances</i> , 2019 , 9, 42561-42568	3.7	6
86	Ultrathin Ag Transparent Conducting Electrode Structure for Next-Generation Optoelectronic Applications. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1538-1544	4	5
85	Time-Resolved Electroluminescence Study for the Effect of Charge Traps on the Luminescence Properties of Organic Light-Emitting Diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000081	1.6	5
84	Efficiency control of organic light-emitting diode for high contrast ratio performance in active matrix display applications. <i>Current Applied Physics</i> , 2014 , 14, 697-701	2.6	5
83	Radiation background with the CMS RPCs at the LHC. <i>Journal of Instrumentation</i> , 2015 , 10, C05031-C05031	3.1	5
82	Low-Voltage, Simple-Structure, High-Efficiency p-i-n-Type Electrophosphorescent Blue Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 102102	1.4	5
81	Efficient red light phosphorescence emission in simple bi-layered structure organic devices with fluorescent host-phosphorescent guest system. <i>Current Applied Physics</i> , 2009 , 9, 1151-1154	2.6	5
80	New polymeric buffer materials with low driving voltage. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1271-5	1.3	5
79	CN-substituted ortho-terphenyl core based high triplet energy bipolar host materials for stable and efficient blue TADF devices. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7426-7435	7.1	5

78	Proficient electron injection lithium complexes designed by molecular energy calculation for high performance OLEDs. <i>Organic Electronics</i> , 2015 , 21, 210-215	3.5	4
77	Thermal Annealing Effect of Subphthalocyanine (SubPc) Donor Material in Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 565, 8-13	0.5	4
76	Highly Efficient Red Phosphorescent OLEDs with Simple Device Structure. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 513, 227-235	0.5	4
75	Bipolar host materials for red and green phosphorescent OLED 2007 , 6828, 11		4
74	Narrow Band Red Emission Fluorophore with Reasonable Multiple Resonance Effect. <i>Advanced Electronic Materials</i> , 2011 , 114	6.4	4
73	Stable Efficiency Roll-off in Solution-processed Phosphorescent Green Organic Light-emitting Diodes. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 327-330	0.6	4
72	Primary color generation from white organic light-emitting diodes using a cavity control layer for AR/VR applications. <i>Organic Electronics</i> , 2020 , 87, 105938	3.5	4
71	Asymmetric Host Molecule Bearing Pyridine Core for Highly Efficient Blue Thermally Activated Delayed Fluorescence OLEDs. <i>Chemistry - A European Journal</i> , 2020 , 26, 16383-16391	4.8	4
70	Bee-shaped host with ideal polarity and energy levels for high-efficiency blue and white fluorescent organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2021 , 411, 128457	14.7	4
69	Efficient cathode contacts through Ag-doping in multifunctional strong nucleophilic electron transport layer for high performance inverted OLEDs. <i>Organic Electronics</i> , 2021 , 89, 106031	3.5	4
68	45-4: Approach for Attaining Short Exciton Lifetime in Thermally Activated Delayed Fluorescence Emitters. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 664-667	0.5	4
67	Achieving High Efficiency and Pure Blue Color in Hyperfluorescence Organic Light Emitting Diodes using Organo-Boron Based Emitters. <i>Advanced Functional Materials</i> , 2022 , 32, 2110356	15.6	4
66	Synthesis and Characterization of Carbazole Core-based Small Molecular-Hole-transporting Materials for Red Phosphorescent OLEDs. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1710-1716	1.2	3
65	Performance evaluation and analysis of two-stack warm white organic light emitting diodes with three spectral peaks. <i>Organic Electronics</i> , 2018 , 62, 142-150	3.5	3
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48	Color variation improvement by introducing double emission layers in WPLEDs. <i>Journal of Information Display</i> , 2006 , 7, 19-22	4.1	2
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