

Jang Hyuk Kwon

List of Publications by Year in Descending Order

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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	An efficient organic and inorganic hybrid interlayer for high performance inverted red cadmium-free quantum dot light-emitting diodes. <i>Nanoscale Advances</i> , 2022 , 4, 904-910	5.1	1
220	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
219	Analysis of efficiency variations in EDABNA based thermally activated delayed fluorescence OLED devices. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 , 108, 47-53	6.3	0
218	Synthesis of fluorescent organic nano-dots and their application as efficient color conversion layers.. <i>Nature Communications</i> , 2022 , 13, 1801	17.4	1
217	Plasmon loss improved top emission organic light-emitting diode with multi capping layer. <i>Organic Electronics</i> , 2022 , 105, 106496	3.5	0
216	Anthracene-dibenzofuran based electron transport type hosts for long lifetime multiple resonance pure blue OLEDs. <i>Organic Electronics</i> , 2022 , 105, 106501	3.5	1
215	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
214	Reverse intersystem crossing accelerating assistant dopant for high efficiency and long lifetime in red hyperfluorescence organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2022 , 137181	14.7	0
213	Patternable Semi-Transparent Cathode using Thermal Evaporation for OLED Display Applications. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001101	6.4	6
212	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
211	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
210	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
209	26-1: Invited Paper: Boron Based Deep Blue TADF Materials and Hyperfluorescence Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 321-323	0.5	1
208	High-Color-Stability and Low-Driving-Voltage White Organic Light-Emitting Diodes on Silicon with Interlayers of Thin Charge Generation Units for Microdisplay Applications. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3240-3246	4	2
207	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
206	Technical status of top-emission organic light-emitting diodes. <i>Journal of Information Display</i> , 2021 , 22, 115-126	4.1	2
205	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

204	A Deep Blue Strong Microcavity Organic Light-Emitting Diode Optimized by a Low Absorption Semitransparent Cathode and a Narrow Bandwidth Emitter. <i>Advanced Photonics Research</i> , 2021 , 2, 2000122	1.9	3
203	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
202	Accurate optical simulation method of tandem organic light-emitting diode with consideration of Purcell effect. <i>Organic Electronics</i> , 2021 , 95, 106192	3.5	1
201	Efficiency enhancement in orange red thermally activated delayed fluorescence OLEDs by using a rigid di-indolocarbazole donor moiety. <i>Dyes and Pigments</i> , 2021 , 194, 109580	4.6	2
200	Ultrathin Ag Transparent Conducting Electrode Structure for Next-Generation Optoelectronic Applications. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1538-1544	4	5
199	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
198	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
197	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
196	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. <i>Advanced Optical Materials</i> , 2020 , 8, 2000102	8.1	28
195	Rigid indolocarbazole donor moiety for highly efficient thermally activated delayed fluorescent device. <i>Dyes and Pigments</i> , 2020 , 180, 108485	4.6	8
194	Vacuum Deposition 2020 , 1-23		1
193	6-3: Efficient and Long Lifetime Blue TADF and Deep Blue Hyper Fluorescent Materials and Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 61-64	0.5	1
192	P-178: Rigid Indolocarbazole as New Donor Moiety for Highly Efficient Thermally Activated Delayed Fluorescent (TADF) Device. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2047-2050	0.5	
191	Highly efficient blue thermally activated delayed fluorescence organic light emitting diodes based on tercarbazole donor and boron acceptor dyads. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2272-2279	7.1	25
190	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
189	51-2: High Efficiency and Long Lifetime InP-based Red Quantum Dot Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 750-753	0.5	
188	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
187	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

186	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
185	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
184	Recent Advancement in Boron-Based Efficient and Pure Blue Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2020 , 8, 373	5	23
183	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. <i>Advanced Optical Materials</i> , 2020 , 8, 1902175	8.1	30
182	An optically efficient full-color reflective display with an electrochromic device and color production units. <i>Journal of Information Display</i> , 2019 , 20, 155-160	4.1	2
181	Efficient Cadmium-Free Inverted Red Quantum Dot Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36917-36924	9.5	22
180	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
179	5-4: High Efficiency Top-Emission Organic Light Emitting Diodes Realized Using Newly Developed Low Absorption Pure Ag cathode Configuration. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 50-53	0.5	1
178	26-3: Highly Efficient Boron Acceptor Based Blue Thermally Activated Delayed Fluorescent Emitter. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 363-366	0.5	
177	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
176	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
175	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
174	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
173	2D-BA 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
172	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
171	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
170	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
169	Comparative analysis of various indolocarbazole-based emitters on thermally activated delayed fluorescence performances. <i>Organic Electronics</i> , 2019 , 74, 282-289	3.5	7

168	High-Performance Reflective Electrochromic Device by Integrating White Reflector and High Optical Density Electrochromic System. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900710	4.6	2
167	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
166	Blue-emitting dendritic molecule with dual functionality as host and dopant for solution-processed white OLEDs with red-emitting material. <i>Synthetic Metals</i> , 2019 , 258, 116198	3.6	0
165	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
164	Vacuum Deposition 2019 , 1-24		2
163	Degradation of OLED performance by exposure to UV irradiation.. <i>RSC Advances</i> , 2019 , 9, 42561-42568	3.7	6
162	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
161	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
160	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	8.5	59
159	Effect of various host characteristics on blue thermally activated delayed fluorescent devices. <i>Organic Electronics</i> , 2018 , 59, 39-44	3.5	15
158	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
157	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
156	Novel dendritic large molecules as solution-processable thermally activated delayed fluorescent emitters for simple structured non-doped organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1160-1170	7.1	24
155	High-Performance Electrochromic Optical Shutter Based on Fluoran Dye for Visibility Enhancement of Augmented Reality Display. <i>Advanced Optical Materials</i> , 2018 , 6, 1701382	8.1	23
154	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
153	Next generation smart window display using transparent organic display and light blocking screen. <i>Optics Express</i> , 2018 , 26, 8493-8502	3.3	18
152	OLED Manufacturing Process for Mobile Application 2018 , 129-142		
151	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

150	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
149	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
148	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
147	OLED Pixel Shrinkage Dependence With Cathode Influenced by Thermal Effect. <i>IEEE Electron Device Letters</i> , 2018 , 1-1	4.4	1
146	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
145	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
144	Chromenopyrazole-Based Bipolar Blue Host Materials for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2018 , 30, 5005-5012	9.6	28
143	Controlling the exciton lifetime of blue thermally activated delayed fluorescence emitters using a heteroatom-containing pyridoindole donor moiety. <i>Materials Horizons</i> , 2017 , 4, 619-624	14.4	57
142	Optimized structure of silane-core containing host materials for highly efficient blue TADF OLEDs. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6570-6577	7.1	27
141	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
140	Thermally stable efficient hole transporting materials based on carbazole and triphenylamine core for red phosphorescent OLEDs. <i>Organic Electronics</i> , 2017 , 51, 463-470	3.5	23
139	Spirobifluorene Core-Based Novel Hole Transporting Materials for Red Phosphorescence OLEDs. <i>Molecules</i> , 2017 , 22,	4.8	12
138	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
137	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
136	Efficient micro-cavity top emission OLED with optimized Mg:Ag ratio cathode. <i>Optics Express</i> , 2017 , 25, 29906-29915	3.3	35
135	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
134	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
133	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

132	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
131	Cool white light-emitting three stack OLED structures for AMOLED display applications. <i>Optics Express</i> , 2016 , 24, 28131-28142	3.3	8
130	P-173: Highly Efficient and Angular Stable White Organic Light-Emitting Diodes for Display Applications Based on Fluorescent Blue and Phosphorescent Yellow Emission. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1768-1770	0.5	
129	Efficient light harvesting in inverted polymer solar cells using polymeric 2D-microstructures. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 151, 162-168	6.4	21
128	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
127	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
126	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
125	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
124	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
123	Device performances of third order micro-cavity green top-emitting organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 458-463	3.5	25
122	Efficient blue phosphorescent organic light emitting diodes with host engineering. <i>Current Applied Physics</i> , 2015 , 15, 42-47	2.6	6
121	Diketopyrrolopyrrole-based copolymers bearing highly extended donating units and their thin-film transistors and photovoltaic cells. <i>Polymer Chemistry</i> , 2015 , 6, 150-159	4.9	24
120	Luminance uniformity study of OLED lighting panels depending on OLED device structures. <i>Optics Express</i> , 2015 , 23, 30701-8	3.3	9
119	Performance of the gas gain monitoring system of the CMS RPC muon detector. <i>Journal of Instrumentation</i> , 2015 , 10, C01003-C01003	1	
118	38.2: Distinguished Student Paper: High-Efficiency Three-Stack Tandem White OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 561-563	0.5	1
117	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
116	Radiation background with the CMS RPCs at the LHC. <i>Journal of Instrumentation</i> , 2015 , 10, C05031-C05031		5
115	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

114	Crystal structure of (E)-5,5-dimethyl-2-[3-(4-nitro-phen-yl)allyl-idene]cyclo-hexane-1,3-dione. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, o485-6	0.7	1
113	An efficient nano-composite layer for highly transparent organic light emitting diodes. <i>Nanoscale</i> , 2014 , 6, 3810-7	7.7	17
112	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
111	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
110	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
109	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
108	The enhanced phosphorescence from Alq3 fluorescent materials by phosphor sensitization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 291, 44-47	4.7	2
107	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
106	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
105	Web-based monitoring tools for Resistive Plate Chambers in the CMS experiment at CERN. <i>Journal of Instrumentation</i> , 2014 , 9, C10031-C10031	1	
104	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
103	CMS RPC tracker muon reconstruction. <i>Journal of Instrumentation</i> , 2014 , 9, C10027-C10027	1	1
102	High efficiency red top-emitting micro-cavity organic light emitting diodes. <i>Optics Express</i> , 2014 , 22, 19919-29	19.29	29
101	Highly Efficient Bipolar Host Materials with Indenocarbazole and Pyrimidine Moieties for Phosphorescent Green Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28757-28763	3.8	27
100	45.3: Distinguished Student Paper: High Efficiency Tandem Top-Emitting Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 648-651	0.5	2
99	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
98	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
97	High-Performance Organic Light-Emitting Diode Displays. <i>Integrated Circuits and Systems</i> , 2013 , 57-81	0.2	2

96	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
95	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
94	A New Exciton Blocking Material for Organic Solar Cell Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 585, 138-144	0.5	0
93	A Comparative Study of the VOC in CuPc and SubPc Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 585, 128-137	0.5	1
92	New interfacial materials for rapid hole-extraction in organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4077	13	39
91	High hole mobility hole transport material for organic light-emitting devices. <i>Synthetic Metals</i> , 2013 , 180, 79-84	3.6	39
90	Color stable phosphorescent white organic light-emitting diodes with double emissive layer structure. <i>Organic Electronics</i> , 2013 , 14, 1183-1188	3.5	39
89	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
88	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
87	49.2: A Study on Electron-injecting and Surface-modifying Layer for Transparent Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 682-684	0.5	
86	P.121: Good Color Stable Phosphorescent White Organic Light-Emitting Diodes with Double Emissive Layer Structure. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 1438-1440	0.5	
85	Low Driving Voltage and High Efficiency Blue Phosphorescent OLEDs with Mixed Host System. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 583, 180-186	0.5	
84	RGB Color Patterning for AMOLED TVs. <i>Information Display</i> , 2013 , 29, 12-15	0.8	9
83	Highly efficient soluble materials for blue phosphorescent organic light-emitting diode. <i>Dyes and Pigments</i> , 2012 , 95, 221-228	4.6	18
82	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
81	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
80	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
79	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

78	Simple-structure white organic light emitting diodes with high color temperature. <i>Current Applied Physics</i> , 2012 , 12, e42-e45	2.6	6
77	P-115: Driving Voltage Reduction through Non-radiative Charge Recombination Interfaces in Organic Light-Emitting Diode. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 1492-1495	0.5	1
76	Response to Comment on Open-circuit voltage dependency on hole-extraction layers in planar heterojunction organic solar cells[Appl. Phys. Lett. 100, 266101 (2012)]. <i>Applied Physics Letters</i> , 2012 , 100, 266102	3.4	
75	Phosphorescent blue organic light-emitting diodes with new bipolar host materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1361-4	1.3	3
74	High Mobility Hole Extraction Material for Organic Solar Cell Application. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 565, 14-21	0.5	2
73	Simple Structure and High Efficiency Phosphorescent OLEDs Using Narrow Band-gap Bipolar Host Material. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1435, 1		
72	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
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