Jun Yeob Lee

List of Publications by Citations

666 papers	16,584 citations	60 h-index	104 g-index
686 ext. papers	18,852 ext. citations	5.7 avg, IF	7.66 L-index

#	Paper	IF	Citations
666	Molecular Design Strategy of Organic Thermally Activated Delayed Fluorescence Emitters. *Chemistry of Materials*, **2017**, 29, 1946-1963	9.6	557
665	Organic materials for deep blue phosphorescent organic light-emitting diodes. *Advanced Materials*, **2012**, 24, 3169-90	24	513
664	External quantum efficiency above 20% in deep blue phosphorescent organic light-emitting diodes. *Advanced Materials*, **2011**, 23, 1436-41	24	368
663	Recent Progress in High-Efficiency Blue-Light-Emitting Materials for Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2017**, 27, 1603007	15.6	367
662	Above 30% external quantum efficiency in blue phosphorescent organic light-emitting diodes using pyrido[2,3-b]indole derivatives as host materials. *Advanced Materials*, **2013**, 25, 5450-4	24	359
661	Stable blue thermally activated delayed fluorescent organic light-emitting diodes with three times longer lifetime than phosphorescent organic light-emitting diodes. *Advanced Materials*, **2015**, 27, 2515-20	24	326
660	Small molecule host materials for solution processed phosphorescent organic light-emitting diodes. *Advanced Materials*, **2014**, 26, 4218-33	24	320
659	Design strategy for 25% external quantum efficiency in green and blue thermally activated delayed fluorescent devices. *Advanced Materials*, **2015**, 27, 5861-7	24	250
658	High efficiency in a solution-processed thermally activated delayed-fluorescence device using a delayed-fluorescence emitting material with improved solubility. *Advanced Materials*, **2014**, 26, 6642-6	24	225
657	A universal host material for high external quantum efficiency close to 25% and long lifetime in green fluorescent and phosphorescent OLEDs. *Advanced Materials*, **2014**, 26, 4050-5	24	213
656	Above 30% external quantum efficiency in green delayed fluorescent organic light-emitting diodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 9625-9	9.5	195
655	Engineering of Mixed Host for High External Quantum Efficiency above 25% in Green Thermally Activated Delayed Fluorescence Device. *Advanced Functional Materials*, **2014**, 24, 3970-3977	15.6	188
654	Phenylcarbazole-Based Phosphine Oxide Host Materials For High Efficiency In Deep Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2009**, 19, 3644-3649	15.6	179
653	The design of dual emitting cores for green thermally activated delayed fluorescent materials. *Angewandte Chemie - International Edition*, **2015**, 54, 5201-4	16.4	167
652	High-efficiency deep-blue-phosphorescent organic light-emitting diodes using a phosphine oxide and a phosphine sulfide high-triplet-energy host material with bipolar charge-transport properties. *Advanced Materials*, **2010**, 22, 1872-6	24	164
651	Recent Progress of Highly Efficient Red and Near-Infrared Thermally Activated Delayed Fluorescent Emitters. *Advanced Optical Materials*, **2018**, 6, 1800255	8.1	159
650	Host Engineering for High Quantum Efficiency Blue and White Fluorescent Organic Light-Emitting Diodes. *Advanced Materials*, **2015**, 27, 4358-63	24	150

649	Phosphine oxide derivatives for organic light emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 4233-4243		142
648	Recent Progress of the Lifetime of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescent Material. *Advanced Materials*, **2019**, 31, e1803524	24	136
647	In-Situ Formed Type I Nanocrystalline Perovskite Film for Highly Efficient Light-Emitting Diode. *ACS Nano*, **2017**, 11, 3311-3319	16.7	134
646	20% External Quantum Efficiency in Solution-Processed Blue Thermally Activated Delayed Fluorescent Devices. *Advanced Functional Materials*, **2015**, 25, 6786-6792	15.6	133
645	Degradation Mechanism and Lifetime Improvement Strategy for Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2017**, 5, 1600901	8.1	128
644	Highly Efficient p-i-n and Tandem Organic Light-Emitting Devices Using an Air-Stable and Low-Temperature-Evaporable Metal Azide as an n-Dopant. *Advanced Functional Materials*, **2010**, 20, 1797-1802	15.6	127
643	Fabrication and efficiency improvement of soluble blue phosphorescent organic light-emitting diodes using a multilayer structure based on an alcohol-soluble blue phosphorescent emitting layer. *Advanced Materials*, **2010**, 22, 4479-83	24	123
642	High quantum efficiency in solution and vacuum processed blue phosphorescent organic light emitting diodes using a novel benzofuropyridine-based bipolar host material. *Advanced Materials*, **2013**, 25, 596-600	24	121
641	Cool and warm hybrid white organic light-emitting diode with blue delayed fluorescent emitter both as blue emitter and triplet host. *Scientific Reports*, **2015**, 5, 7859	4.9	119
640	High-efficiency, long-lifetime deep-blue organic light-emitting diodes. *Nature Photonics*, **2021**, 15, 208-215	39.9	118
639	Engineering the Substitution Position of Diphenylphosphine Oxide at Carbazole for Thermal Stability and High External Quantum Efficiency Above 30% in Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2014**, 24, 4164-4169	15.6	116
638	Molecular design of deep blue fluorescent emitters with 20% external quantum efficiency and narrow emission spectrum. *Organic Electronics*, **2016**, 29, 160-164	3.5	105
637	Ideal blue thermally activated delayed fluorescence emission assisted by a thermally activated delayed fluorescence assistant dopant through a fast reverse intersystem crossing mediated cascade energy transfer process. *Journal of Materials Chemistry C*, **2019**, 7, 3082-3089	7.1	105
636	Relationship between host energy levels and device performances of phosphorescent organic light-emitting diodes with triplet mixed host emitting structure. *Applied Physics Letters*, **2007**, 91, 083511	3.4	104
635	Recent Progress of Singlet-Exciton-Harvesting Fluorescent Organic Light-Emitting Diodes by Energy Transfer Processes. *Advanced Materials*, **2019**, 31, e1803714	24	103
634	Donor Interlocked Molecular Design for Fluorescence-like Narrow Emission in Deep Blue Thermally Activated Delayed Fluorescent Emitters. *Chemistry of Materials*, **2016**, 28, 5400-5405	9.6	102
633	Enhanced efficiency and reduced roll-off in blue and white phosphorescent organic light-emitting diodes with a mixed host structure. *Applied Physics Letters*, **2009**, 94, 193305	3.4	100
632	Synthesis and electroluminescent properties of highly efficient anthracene derivatives with bulky side groups. *Organic Electronics*, **2009**, 10, 822-833	3.5	96

631	Stable efficiency roll-off in phosphorescent organic light-emitting diodes. *Applied Physics Letters*, **2008**, 92, 023513	3.4	96
630	High efficiency phosphorescent organic light-emitting diodes using carbazole-type triplet exciton blocking layer. *Applied Physics Letters*, **2007**, 90, 223505	3.4	96
629	Above 20% External Quantum Efficiency in Thermally Activated Delayed Fluorescence Device Using Furodipyridine-Type Host Materials. *Chemistry of Materials*, **2014**, 26, 1413-1419	9.6	92
628	Ideal Molecular Design of Blue Thermally Activated Delayed Fluorescent Emitter for High Efficiency, Small Singlet-Triplet Energy Splitting, Low Efficiency Roll-Off, and Long Lifetime. *ACS Applied Materials & Interfaces*, **2016**, 8, 23190-6	9.5	91
627	Molecular Engineering of High Efficiency and Long Lifetime Blue Thermally Activated Delayed Fluorescent Emitters for Vacuum and Solution Processed Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2016**, 4, 688-693	8.1	86
626	Stable efficiency roll-off in blue phosphorescent organic light-emitting diodes by host layer engineering. *Organic Electronics*, **2009**, 10, 1529-1533	3.5	85
625	Low driving voltage, high quantum efficiency, high power efficiency, and little efficiency roll-off in red, green, and deep-blue phosphorescent organic light-emitting diodes using a high-triplet-energy hole transport material. *Advanced Materials*, **2011**, 23, 4568-72	24	84
624	Dibenzothiophene derivatives as host materials for high efficiency in deep blue phosphorescent organic light emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 14604		82
623	Deep blue phosphorescent organic light-emitting diodes using a Si based wide bandgap host and an Ir dopant with electron withdrawing substituents. *Thin Solid Films*, **2008**, 517, 722-726	2.2	79
622	Organic materials for organic electronic devices. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 1198-1208	6.3	78
621	Molecular Engineering of Blue Fluorescent Molecules Based on Silicon End-Capped Diphenylaminofluorene Derivatives for Efficient Organic Light-Emitting Materials. *Advanced Functional Materials*, **2010**, 20, 1345-1358	15.6	78
620	Highly efficient and color tunable thermally activated delayed fluorescent emitters using a "twin emitter" molecular design. *Chemical Communications*, **2016**, 52, 339-42	5.8	77
619	Benzofurocarbazole and benzothienocarbazole as donors for improved quantum efficiency in blue thermally activated delayed fluorescent devices. *Chemical Communications*, **2015**, 51, 8105-7	5.8	73
618	High efficiency blue phosphorescent organic light emitting diodes using a simple device structure. *Applied Physics Letters*, **2009**, 94, 013301	3.4	72
617	High Efficiency Deep-Blue Phosphorescent Organic Light-Emitting Diodes with CIE x, y (0.15) and Low Efficiency Roll-Off by Employing a High Triplet Energy Bipolar Host Material. *Advanced Functional Materials*, **2018**, 28, 1802945	15.6	71
616	Effect of End Groups on Mechanochromism and Electroluminescence in Tetraphenylethylene Substituted Phenanthroimidazoles. *Journal of Physical Chemistry C*, **2016**, 120, 18487-18495	3.8	69
615	Effect of the position of nitrogen in pyridoindole on photophysical properties and device performances of carboline based high triplet energy host materials for deep blue devices. *Chemical Communications*, **2013**, 49, 5948-50	5.8	67
614	Correlation of Molecular Structure with Photophysical Properties and Device Performances of Thermally Activated Delayed Fluorescent Emitters. *Journal of Physical Chemistry C*, **2016**, 120, 2485-2493	3.8	66

613	Progress of display performances: AR, VR, QLED, OLED, and TFT. *Journal of Information Display*, **2019**, 20, 1-8	4.1	64
612	Stimuli responsive AIE active positional isomers of phenanthroimidazole as non-doped emitters in OLEDs. *Journal of Materials Chemistry C*, **2018**, 6, 2077-2087	7.1	64
611	Comparison of symmetric and asymmetric bipolar type high triplet energy host materials for deep blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 7239		64
610	The effect of mesogenic length on the curing behavior and properties of liquid crystalline epoxy resins. *Polymer*, **2006**, 47, 3036-3042	3.9	64
609	High efficiency deep blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2009**, 10, 170-173	3.5	63
608	Transparent organic light emitting diodes using a multilayer oxide as a low resistance transparent cathode. *Applied Physics Letters*, **2008**, 93, 013301	3.4	62
607	Nearly 100% Horizontal Dipole Orientation and Upconversion Efficiency in Blue Thermally Activated Delayed Fluorescent Emitters. *Advanced Optical Materials*, **2018**, 6, 1701340	8.1	62
606	Structure–Property Relationship of Pyridoindole-Type Host Materials for High-Efficiency Blue Phosphorescent Organic Light-Emitting Diodes. *Chemistry of Materials*, **2014**, 26, 1616-1621	9.6	60
605	Unconventional Molecular Design Approach of High-Efficiency Deep Blue Thermally Activated Delayed Fluorescent Emitters Using Indolocarbazole as an Acceptor. *ACS Applied Materials & Interfaces*, **2017**, 9, 37864-37872	9.5	59
604	A bipolar host based high triplet energy electroplex for an over 10 000 h lifetime in pure blue phosphorescent organic light-emitting diodes. *Materials Horizons*, **2020**, 7, 559-565	14.4	59
603	Aggregation-induced emission type thermally activated delayed fluorescent materials for high efficiency in non-doped organic light-emitting diodes. *Organic Electronics*, **2016**, 29, 22-26	3.5	58
602	Efficient hole injection in organic light-emitting diodes using C60 as a buffer layer for Al reflective anodes. *Applied Physics Letters*, **2006**, 88, 073512	3.4	58
601	High efficiency and low power consumption in active matrix organic light emitting diodes. *Organic Electronics*, **2003**, 4, 143-148	3.5	58
600	Improved performance of blue phosphorescent organic light-emitting diodes with a mixed host system. *Applied Physics Letters*, **2009**, 95, 253304	3.4	57
599	Mechanochromism and electroluminescence in positional isomers of tetraphenylethylene substituted phenanthroimidazoles. *Journal of Materials Chemistry C*, **2017**, 5, 6014-6020	7.1	56
598	Long lifetime blue phosphorescent organic light-emitting diodes with an exciton blocking layer. *Journal of Materials Chemistry C*, **2015**, 3, 4640-4645	7.1	56
597	Solution processed deep blue phosphorescent organic light-emitting diodes with over 20% external quantum efficiency. *Organic Electronics*, **2011**, 12, 1711-1715	3.5	56
596	Bipolar Host Materials for Organic Light-Emitting Diodes. *Chemical Record*, **2016**, 16, 159-72	6.6	54

595	Phosphine oxide type bipolar host material for high quantum efficiency in thermally activated delayed fluorescent device. *ACS Applied Materials & Interfaces*, **2014**, 6, 8396-400	9.5	54
594	CN-Modified Host Materials for Improved Efficiency and Lifetime in Blue Phosphorescent and Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 13339-13346	9.5	53
593	Highly Efficient Soluble Blue Delayed Fluorescent and Hyperfluorescent Organic Light-Emitting Diodes by Host Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 5700-5705	9.5	53
592	Improved color stability in white phosphorescent organic light-emitting diodes using charge confining structure without interlayer. *Applied Physics Letters*, **2007**, 91, 123509	3.4	53
591	Engineering of interconnect position of bicarbazole for high external quantum efficiency in green and blue phosphorescent organic light-emitting diodes. *ACS Applied Materials & Interfaces*, **2014**, 6, 14874-80	9.5	51
590	Benzo[4,5]thieno[2,3-b]pyridine derivatives as host materials for high efficiency green and blue phosphorescent organic light-emitting diodes. *Chemical Communications*, **2013**, 49, 1446-8	5.8	51
589	Theoretical maximum quantum efficiency in red phosphorescent organic light-emitting diodes at a low doping concentration using a spirobenzofluorene type triplet host material. *Organic Electronics* , **2010**, 11, 881-886	3.5	51
588	100% internal quantum efficiency and stable efficiency roll-off in phosphorescent light-emitting diodes using a high triplet energy hole transport material. *Applied Physics Letters*, **2008**, 93, 063306	3.4	51
587	Dihedral Angle Control of Blue Thermally Activated Delayed Fluorescent Emitters through Donor Substitution Position for Efficient Reverse Intersystem Crossing. *ACS Applied Materials & Interfaces*, **2018**, 10, 35420-35429	9.5	51
586	Recent progress of green thermally activated delayed fluorescent emitters. *Journal of Information Display*, **2017**, 18, 101-117	4.1	50
585	Design of ortho-linkage carbazole-triazine structure for high-efficiency blue thermally activated delayed fluorescent emitters. *Dyes and Pigments*, **2016**, 134, 562-568	4.6	50
584	Above 20% external quantum efficiency in novel hybrid white organic light-emitting diodes having green thermally activated delayed fluorescent emitter. *Scientific Reports*, **2014**, 4, 6019	4.9	49
583	Modified N,N′-dicarbazolyl-3,5-benzene as a high triplet energy host material for deep-blue phosphorescent organic light-emitting diodes. *Chemistry - A European Journal*, **2011**, 17, 11415-8	4.8	49
582	The relationship between the substitution position of the diphenylphosphine oxide on the spirobifluorene and device performances of blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2010**, 11, 1059-1065	3.5	49
581	High Triplet Energy Hosts for Blue Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2021**, 31, 2008332	15.6	49
580	High efficiency fluorescent white organic light-emitting diodes having a yellow fluorescent emitter sensitized by a blue thermally activated delayed fluorescent emitter. *Organic Electronics*, **2015**, 23, 138-143	3.5	48
579	Indolo Acridine-Based Hole-Transport Materials for Phosphorescent OLEDs with Over 20% External Quantum Efficiency in Deep Blue and Green. *Chemistry of Materials*, **2011**, 23, 4338-4343	9.6	47
578	Laser-Induced Thermal Imaging of Polymer Light-Emitting Materials on Poly(3,4-ethylenedioxythiophene): Silane Hole-Transport Layer. *Advanced Materials*, **2004**, 16, 51-54	24	47

577	Synthesis and curing of liquid crystalline epoxy resins based on 4,4?-biphenol. *Polymer*, **1998**, 39, 6121-6126	3.9	46
576	High efficiency blue fluorescent organic light-emitting diodes using a conventional blue fluorescent emitter. *Journal of Materials Chemistry C*, **2015**, 3, 8834-8838	7.1	45
575	Relationship between the structure of the bridging group and curing of liquid crystalline epoxy resins. *Polymer*, **1999**, 40, 3197-3202	3.9	43
574	Carboline derivatives with an ortho-linked terphenyl core for high quantum efficiency in blue phosphorescent organic light-emitting diodes. *Chemical Communications*, **2013**, 49, 9860-2	5.8	42
573	Deep blue thermally activated delayed fluorescent emitters using CN-modified indolocarbazole as an acceptor and carbazole-derived donors. *Journal of Materials Chemistry C*, **2018**, 6, 5012-5017	7.1	41
572	Fabrication of a vertically-stacked passive-matrix micro-LED array structure for a dual color display. *Optics Express*, **2017**, 25, 2489-2495	3.3	41
571	tert-Butylated spirofluorene derivatives with arylamine groups for highly efficient blue organic light emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 5145		41
570	Correlation of the substitution position of diphenylphosphine oxide on phenylcarbazole and device performances of blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 5638		41
569	Comparison of bipolar hosts and mixed-hosts as host structures for deep-blue phosphorescent organic light emitting diodes. *Chemistry - an Asian Journal*, **2011**, 6, 2895-8	4.5	40
568	High efficiency phosphorescent organic light emitting diodes using triplet quantum well structure. *Applied Physics Letters*, **2007**, 90, 173501	3.4	40
567	Light emission mechanism of mixed host organic light-emitting diodes. *Applied Physics Letters*, **2015** , 106, 123306	3.4	38
566	Spatial separation of sensitizer and fluorescent emitter for high quantum efficiency in hyperfluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 1504-1508	7.1	38
565	Three- and Four-Coordinate, Boron-Based, Thermally Activated Delayed Fluorescent Emitters. *Advanced Optical Materials*, **2020**, 8, 2000922	8.1	38
564	High triplet energy exciplex host derived from a CN modified carbazole based n-type host for improved efficiency and lifetime in blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 10308-10314	7.1	38
563	Phosphor sensitized thermally activated delayed fluorescence organic light-emitting diodes with ideal deep blue device performances. *Journal of Materials Chemistry C*, **2019**, 7, 8562-8568	7.1	37
562	A phosphine oxide derivative as a universal electron transport material for organic light-emitting diodes. *Journal of Materials Chemistry*, **2009**, 19, 5940		37
561	Triplet host engineering for triplet exciton management in phosphorescent organic light-emitting diodes. *Journal of Applied Physics*, **2008**, 103, 054502	2.5	37
560	Isomeric Quinoxalinedicarbonitrile as Color-Managing Acceptors of Thermally Activated Delayed Fluorescent Emitters. *ACS Applied Materials & Interfaces*, **2019**, 11, 17583-17591	9.5	36

559	Narrowband and Pure Violet Organic Emitter with a Full Width at Half Maximum of 14 nm and y Color Coordinate of Below 0.02. *Small*, **2020**, 16, e1907569	11	36
558	High triplet energy electron transport type exciton blocking materials for stable blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2016**, 32, 109-114	3.5	36
557	Tetraphenylsilane-Based High Triplet Energy Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2011**, 115, 10272-10276	3.8	36
556	Color stability and suppressed efficiency roll-off in white organic light-emitting diodes through management of interlayer and host properties. *Journal of Industrial and Engineering Chemistry*, **2009**, 15, 420-422	6.3	36
555	High triplet energy exciplex hosts for deep blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2017**, 5, 5923-5929	7.1	35
554	Heavy Atom Effect of Selenium for Metal-Free Phosphorescent Light-Emitting Diodes. *Chemistry of Materials*, **2020**, 32, 2583-2592	9.6	35
553	Electroplex as a New Concept of Universal Host for Improved Efficiency and Lifetime in Red, Yellow, Green, and Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Science*, **2018**, 5, 1700608	13.6	35
552	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. *Organic Electronics*, **2017**, 42, 337-342	3.5	34
551	High Efficiency Exciplex Emitters Using Donor–Acceptor Type Acceptor Material. *Journal of Physical Chemistry C*, **2015**, 119, 22618-22624	3.8	34
550	Effect of doping profile on the lifetime of green phosphorescent organic light-emitting diodes. *Applied Physics Letters*, **2006**, 89, 153503	3.4	34
549	Synthesis and device application of hybrid host materials of carbazole and benzofuran for high efficiency solution processed blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 1009-1014	3.5	33
548	Relationship between indium tin oxide surface treatment and hole injection in C60 modified devices. *Applied Physics Letters*, **2006**, 89, 253501	3.4	33
547	Efficient electron injection in organic light-emitting diodes using lithium quinolate/CaAl cathodes. *Applied Physics Letters*, **2007**, 91, 103501	3.4	33
546	Managing Orientation of Nitrogens in Bipyrimidine-Based Thermally Activated Delayed Fluorescent Emitters To Suppress Nonradiative Mechanisms. *Chemistry of Materials*, **2018**, 30, 3215-3222	9.6	32
545	The Design of Dual Emitting Cores for Green Thermally Activated Delayed Fluorescent Materials. *Angewandte Chemie*, **2015**, 127, 5290-5293	3.6	32
544	Highly efficient and color stable phosphorescent white light-emitting diodes by using a charge confining emitting layer structure. *Applied Physics Letters*, **2008**, 93, 113301	3.4	32
543	Blue thermally activated delayed fluorescent emitters having a bicarbazole donor moiety. *RSC Advances*, **2016**, 6, 64133-64139	3.7	32
542	Phenylimidazole-based homoleptic iridium(III) compounds for blue phosphorescent organic light-emitting diodes with high efficiency and long lifetime. *Organic Electronics*, **2016**, 34, 91-96	3.5	32

541	Simultaneous Achievement of High Efficiency and Long Lifetime in Deep Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2019**, 7, 1901374	8.1	31
540	Fluorine-free blue phosphorescent emitters for efficient phosphorescent organic light emitting diodes. *Journal of Materials Chemistry C*, **2014**, 2, 6040-6047	7.1	31
539	Mixed-host-emitting layer for high-efficiency organic light-emitting diodes. *Journal of Information Display*, **2014**, 15, 139-144	4.1	31
538	Synthesis of titania embedded silica hollow nanospheres via sonication mediated etching and re-deposition. *Chemical Communications*, **2011**, 47, 7092-4	5.8	31
537	Recombination zone study of phosphorescent organic light-emitting diodes with triplet mixed host emitting structure. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 181-184	6.3	31
536	High efficiency and low efficiency roll off in white phosphorescent organic light-emitting diodes by managing host structures. *Applied Physics Letters*, **2008**, 92, 193308	3.4	31
535	Progress of display performances: AR, VR, QLED, and OLED. *Journal of Information Display*, **2020**, 21, 1-9	4.1	30
534	Rational design of host materials for phosphorescent organic light-emitting diodes by modifying the 1-position of carbazole. *Chemical Communications*, **2015**, 51, 10672-5	5.8	30
533	Highly efficient pure white phosphorescent organic light-emitting diodes using a deep blue phosphorescent emitting material. *Organic Electronics*, **2009**, 10, 681-685	3.5	30
532	Effect of substituents on the curing of liquid crystalline epoxy resin. *Journal of Polymer Science Part A*, **1998**, 36, 911-917	2.5	30
531	Four times lifetime improvement of blue phosphorescent organic light-emitting diodes by managing recombination zone. *Organic Electronics*, **2015**, 27, 202-206	3.5	29
530	High triplet energy host materials for blue phosphorescent organic light-emitting diodes derived from carbazole modified orthophenylene. *Journal of Materials Chemistry C*, **2014**, 2, 7256	7.1	29
529	Fused indole derivatives as high triplet energy hole transport materials for deep blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 3099		29
528	Polymer bulk heterojunction photovoltaics employing a squaraine donor additive. *Organic Electronics*, **2013**, 14, 1081-1085	3.5	29
527	Blue Phosphorescent Platinum Complexes Based on Tetradentate Bipyridine Ligands and Their Application to Organic Light-Emitting Diodes (OLEDs). *Organometallics*, **2018**, 37, 4639-4647	3.8	29
526	A strong hole transport type host material for high quantum efficiency blue phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2015**, 32, 72-76	6.3	28
525	The effect of a heavy atom on the radiative pathways of an emitter with dual conformation, thermally-activated delayed fluorescence and room temperature phosphorescence. *Journal of Materials Chemistry C*, **2019**, 7, 10481-10490	7.1	28
524	Organic bistable memory device using MoO3 nanocrystal as a charge trapping center. *Organic Electronics*, **2009**, 10, 48-52	3.5	28

523	High power efficiency in simplified two layer blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2010**, 11, 1154-1157	3.5	28
522	High quantum efficiency in simple blue phosphorescent organic light-emitting diodes without any electron injection layer. *Thin Solid Films*, **2010**, 519, 906-910	2.2	28
521	Transparent organic bistable memory device with pure organic active material and Al/indium tin oxide electrode. *Applied Physics Letters*, **2008**, 92, 223305	3.4	28
520	A novel molecular design employing a backbone freezing linker for improved efficiency, sharpened emission and long lifetime in thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 2919-2926	7.1	27
519	High-power-efficiency hybrid white organic light-emitting diodes with a single emitting layer doped with blue delayed fluorescent and yellow phosphorescent emitters. *Journal Physics D: Applied Physics*, **2015**, 48, 365106	3	27
518	High quantum efficiency blue phosphorescent organic light-emitting diodes using 6-position-modified benzofuro[2,3-b]pyridine derivatives. *ACS Applied Materials & Interfaces*, **2013**, 5, 2169-73	9.5	27
517	The effect of the substitution position of dibenzofuran on the photophysical and charge-transport properties of host materials for phosphorescent organic light-emitting diodes. *Chemistry - A European Journal*, **2013**, 19, 1194-8	4.8	27
516	Highly efficient blue organic light-emitting diodes based on 2-(diphenylamino)fluoren-7-ylvinylarene derivatives that bear a tert-butyl group. *Chemistry - A European Journal*, **2011**, 17, 12994-3006	4.8	27
515	Lifetime improvement of green phosphorescent organic light-emitting diodes by charge confining device structure. *Applied Physics Letters*, **2007**, 90, 203511	3.4	27
514	New Direct Approach for Determining the Reverse Intersystem Crossing Rate in Organic Thermally Activated Delayed Fluorescent (TADF) Emitters. *Journal of the American Chemical Society*, **2020**, 142, 8074-8079	16.4	27
513	Highly efficient TADF OLEDs with low efficiency roll-off based on novel acridine□arbazole hybrid donor-substituted pyrimidine derivatives. *Journal of Materials Chemistry C*, **2019**, 7, 12248-12255	7.1	26
512	Rational Molecular Design of Highly Efficient Yellow-Red Thermally Activated Delayed Fluorescent Emitters: A Combined Effect of Auxiliary Fluorine and Rigidified Acceptor Unit. *ACS Applied Materials & Interfaces*, **2020**, 12, 18730-18738	9.5	26
511	Functionalized phenylimidazole-based facial-homoleptic iridium(III) complexes and their excellent performance in blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C* , **2018**, 6, 4565-4572	7.1	26
510	Solution processed multilayer deep blue and white phosphorescent organic light-emitting diodes using an alcohol soluble bipolar host and phosphorescent dopant materials. *Journal of Materials Chemistry*, **2012**, 22, 14546		26
509	Efficient hole injection by doping of hexaazatriphenylene hexacarbonitrile in hole transport layer. *Thin Solid Films*, **2009**, 517, 6109-6111	2.2	26
508	Low driving voltage in organic light-emitting diodes using MoO3 as an interlayer in hole transport layer. *Synthetic Metals*, **2009**, 159, 69-71	3.6	26
507	The effect of C60 doping on the device performance of organic light-emitting diodes. *Applied Physics Letters*, **2005**, 86, 063514	3.4	26
506	Blue phosphorescent organic light-emitting devices based on carbazole/thioxanthene-S,S-dioxide with a high glass transition temperature. *Journal of Materials Chemistry C*, **2015**, 3, 6192-6199	7.1	25

505	CsPbBr3/CH3NH3PbCl3 Double Layer Enhances Efficiency and Lifetime of Perovskite Light-Emitting Diodes. *ACS Energy Letters*, **2020**, 5, 2191-2199	20.1	25
504	Synthesis of High-Triplet-Energy Host Polymer for Blue and White Electrophosphorescent Light-Emitting Diodes. *Macromolecules*, **2014**, 47, 7397-7406	5.5	25
503	Deep blue phosphorescent organic light-emitting diodes with excellent external quantum efficiency. *Organic Electronics*, **2013**, 14, 3228-3233	3.5	25
502	A design strategy of bipolar host materials for more than 30 times extended lifetime in phosphorescent organic light-emitting diodes using benzocarbazole and quinazoline. *Journal of Materials Chemistry C*, **2017**, 5, 9072-9079	7.1	25
501	Direct monitoring of recombination zone shift during lifetime measurement of phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2015**, 32, 332-335	6.3	25
500	Vertical orientation of copper phthalocyanine in organic solar cells using a small molecular weight organic templating layer. *Applied Physics Letters*, **2011**, 99, 043308	3.4	25
499	Enhanced hole transport in C60-doped hole transport layer. *Applied Physics Letters*, **2006**, 88, 183502	3.4	25
498	Engineering of charge transport materials for universal low optimum doping concentration in phosphorescent organic light-emitting diodes. *Organic Electronics*, **2012**, 13, 341-349	3.5	24
497	Systematic control of photophysical properties of host materials for high quantum efficiency above 25% in green thermally activated delayed fluorescent devices. *ACS Applied Materials & Interfaces*, **2015**, 7, 2899-904	9.5	24
496	Organic light emitting bistable memory device with high on/off ratio and low driving voltage. *Applied Physics Letters*, **2008**, 93, 053306	3.4	24
495	Rational Molecular Design Overcoming the Long Delayed Fluorescence Lifetime and Serious Efficiency Roll-Off in Blue Thermally Activated Delayed Fluorescent Devices. *Chemistry - A European Journal*, **2019**, 25, 642-648	4.8	24
494	Benzoisoquinoline-1,3-dione acceptor based red thermally activated delayed fluorescent emitters. *Dyes and Pigments*, **2017**, 144, 212-217	4.6	23
493	Improved lifetime in organic solar cells using a bilayer cathode of organic interlayer/Al. *Solar Energy Materials and Solar Cells*, **2012**, 101, 160-165	6.4	23
492	Indenofluorene-Based Blue Fluorescent Compounds and Their Application in Highly Efficient Organic Light-Emitting Diodes. *European Journal of Organic Chemistry*, **2012**, 2012, 2748-2755	3.2	23
491	Solution processed high efficiency blue and white phosphorescent organic light-emitting diodes using a high triplet energy exciton blocking layer. *Organic Electronics*, **2011**, 12, 1293-1297	3.5	23
490	High efficiency, color stability, and stable efficiency roll off in three color hybrid white organic light emitting diodes. *Applied Physics Letters*, **2008**, 93, 073302	3.4	23
489	Efficient electron injection in organic light-emitting diodes using lithium quinolate/Mg:Ag/Al cathodes. *Journal of Industrial and Engineering Chemistry*, **2008**, 14, 676-678	6.3	23
488	Dielectric and molecular dynamic studies of sub-Tg by thermally stimulated current (TSC) analysis for liquid crystalline epoxy thermosets. *Materials Chemistry and Physics*, **2003**, 77, 455-460	4.4	23

487	Molecular Orbital Controlling Donor Moiety for High-Efficiency Thermally Activated Delayed Fluorescent Emitters. *Chemistry - an Asian Journal*, **2016**, 11, 868-73	4.5	23
486	Non-doped blue organic light emitting devices based on tetraphenylethylene-imidazole derivatives. *Organic Electronics*, **2016**, 37, 448-452	3.5	23
485	Benzothienopyrimidine as a co-planar type rigid acceptor for high external quantum efficiency in thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 7643-7653	7.1	22
484	Blue Phosphorescent Ir(III) Complexes Achieved with Over 30% External Quantum Efficiency. *Advanced Optical Materials*, **2019**, 7, 1901387	8.1	22
483	Fluorenobenzofuran as the core structure of high triplet energy host materials for green phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 10537		22
482	Structure-property relationship in high triplet energy host materials with a phenylcarbazole core and diphenylphosphine oxide substituent. *Organic Electronics*, **2011**, 12, 1025-1032	3.5	22
481	Red phosphorescent organic light-emitting diodes with indium tin oxide/single organic layer/Al simple device structure. *Organic Electronics*, **2010**, 11, 36-40	3.5	22
480	A high triplet energy phosphine oxide derivative as a host and exciton blocking material for blue phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2010**, 518, 3716-3720	2.2	22
479	High efficiency in blue organic light-emitting diodes using an anthracene-based emitting material. *Thin Solid Films*, **2008**, 516, 2917-2921	2.2	22
478	Molecular design of host materials for high power efficiency in blue phosphorescent organic light-emitting diodes doped with an imidazole ligand based triplet emitter. *Journal of Materials Chemistry C*, **2016**, 4, 3792-3797	7.1	21
477	Effect of the molecular structure of the host materials on the lifetime of green thermally activated delayed fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2015**, 3, 8061-8065	7.1	21
476	Improved luminance and external quantum efficiency of red and white organic light-emitting diodes with iridium(III) complexes with phenyl-substituted 2-phenylpyridine as a second cyclometalated ligand. *Journal of Materials Chemistry C*, **2015**, 3, 12107-12115	7.1	21
475	Lifetime enhancement of blue thermally activated delayed fluorescent devices by separated carrier channels using dibenzofuran-triazine type hosts. *Journal of Industrial and Engineering Chemistry*, **2018**, 62, 258-264	6.3	21
474	Chemical Bond Stabilization and Exciton Management by CN Modified Host Material for Improved Efficiency and Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2016**, 4, 1281-1287	8.1	21
473	High efficiency deep blue phosphorescent organic light-emitting diodes using a tetraphenylsilane based phosphine oxide host material. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 1029-1032	6.3	21
472	Thermally stable carboline derivative as a host material for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 2687-2691	3.5	21
471	High efficiency red phosphorescent organic light-emitting diodes using a spirobenzofluorene type phosphine oxide as a host material. *Organic Electronics*, **2009**, 10, 998-1000	3.5	21
470	High efficiency pure white organic light-emitting diodes using a diphenylaminofluorene-based blue fluorescent material. *Organic Electronics*, **2009**, 10, 1378-1381	3.5	21

469	Synthesis and curing of liquid crystalline epoxy resin based on naphthalene mesogen. *Journal of Polymer Science Part A*, **1999**, 37, 419-425	2.5	21
468	Deep-blue phosphorescent iridium(III) dyes based on fluorine-functionalized bis(2,3?-bipyridyl) ligand for efficient organic light-emitting diodes. *Dyes and Pigments*, **2015**, 123, 235-241	4.6	20
467	Synthesis of an aromatic amine derivative with novel double spirobifluorene core and its application as a hole transport material. *Organic Electronics*, **2012**, 13, 351-355	3.5	20
466	Highly electron deficient pyrido[3,2-4,5]furo[2,3-b]pyridine as a core structure of a triplet host material for high efficiency green phosphorescent organic light-emitting diodes. *Chemical Communications*, **2013**, 49, 6185-7	5.8	20
465	High efficiency in two color and three color phosphorescent white organic light-emitting diodes using a 2,7-substituted 9-phenylcarbazole derivative as the host material. *Organic Electronics*, **2011**, 12, 1459-1464	3.5	20
464	Highly efficient exciplex organic light-emitting diodes using thermally activated delayed fluorescent emitters as donor and acceptor materials. *Nanotechnology*, **2016**, 27, 224001	3.4	20
463	Highly efficient exciplex organic light-emitting diodes by exciplex dispersion in the thermally activated delayed fluorescence host. *Organic Electronics*, **2020**, 76, 105477	3.5	20
462	Molecular design of sensitizer to suppress efficiency loss mechanism in hyper-fluorescent organic light-emitting diodes. *Organic Electronics*, **2018**, 59, 236-242	3.5	20
461	Molecular design of triazine and carbazole based host materials for blue phosphorescent organic emitting diodes. *Physical Chemistry Chemical Physics*, **2015**, 17, 13553-8	3.6	19
460	Molecular engineering of donor moiety of donor–acceptor structure for management of photophysical properties and device performances. *Dyes and Pigments*, **2016**, 128, 201-208	4.6	19
459	Blue-shifted emission color and high quantum efficiency in solution-processed blue thermally activated delayed fluorescence organic light-emitting diodes using an intermolecular interaction suppressing host decorated with blocking groups. *Journal of Materials Chemistry C*, **2018**, 6, 6778-6783	7.1	19
458	Improved open-circuit voltage and efficiency in organic solar cells using a phosphine oxide based interlayer material. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1389-1392	6.4	19
457	Anisotropically ordered liquid crystalline epoxy network on carbon fiber surface. *Polymer Bulletin*, **2007**, 59, 261-268	2.4	19
456	A stepwise energy level doping structure for improving the lifetime of phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2017**, 5, 3948-3954	7.1	18
455	Dibenzofuran derivative as high triplet energy host material for high efficiency in deep blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2012**, 13, 1141-1145	3.5	18
454	Simple heteroatom engineering for tuning the triplet energy of organometallic host materials for red, green and blue phosphorescent organic light-emitting diodes. *Chemical Communications*, **2013**, 49, 3875-7	5.8	18
453	Synthesis of 2- and 4-substituted carbazole derivatives and correlation of substitution position with photophysical properties and device performances of host materials. *Organic Electronics*, **2013**, 14, 67-73	3.5	18
452	High color rendering index in phosphorescent white organic light-emitting diodes using a yellowish-green dopant with broad light emission. *Organic Electronics*, **2013**, 14, 1504-1509	3.5	18

451	Highly efficient single-layer phosphorescent white organic light-emitting diodes using a spirofluorene-based host material. *Optics Letters*, **2009**, 34, 407-9	3	18
450	Synthesis of fused phenylcarbazole phosphine oxide based high triplet energy host materials. *Tetrahedron*, **2010**, 66, 7295-7301	2.4	18
449	Molecular Design Tactics for Highly Efficient Thermally Activated Delayed Fluorescence Emitters for Organic Light Emitting Diodes. *Chemical Record*, **2019**, 19, 1499-1517	6.6	18
448	Superb lifetime of blue organic light-emitting diodes through engineering interface carrier blocking layers and adjusting electron leakage and an unusual efficiency variation at low electric field. *Journal of Materials Chemistry C*, **2018**, 6, 8472-8478	7.1	17
447	High triplet energy Zn complexes as host materials for green and blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2013**, 99, 374-377	4.6	17
446	A directly coupled dual emitting core based molecular design of thermally activated delayed fluorescent emitters. *Journal of Materials Chemistry C*, **2017**, 5, 12143-12150	7.1	17
445	Performance improvement of glass-fiber-reinforced polystyrene composite using a surface modifier. II. Mechanical properties of composites. *Journal of Applied Polymer Science*, **1996**, 59, 2069-2077	2.9	17
444	Dibenzothiophene-dioxide acceptor based thermally activated delayed fluorescent emitters for color tunable organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2017**, 50, 111-114	6.3	16
443	Phenothiazine dioxide based high triplet energy host materials for blue phosphorescent organic light-emitting diodes. *RSC Advances*, **2015**, 5, 97903-97909	3.7	16
442	Aggregation-induced phosphorescence enhancement in deep-red and near-infrared emissive iridium(III) complexes for solution-processable OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 4789-4800	7.1	16
441	Single molecule white emission by intra- and inter-molecular charge transfer. *Journal of Materials Chemistry C*, **2020**, 8, 10302-10308	7.1	16
440	Design of thermally activated delayed fluorescent sensitizers for high efficiency over 20% and long lifetime in yellow fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 5265-5272	7.1	16
439	A novel fluorene–indolocarbazole hybrid chromophore to assemble high efficiency deep-blue fluorescent emitters with extended device lifetime. *Journal of Materials Chemistry C*, **2020**, 8, 3051-3057	7.1	16
438	Simultaneous improvement of emission color, singlet-triplet energy gap, and quantum efficiency of blue thermally activated delayed fluorescent emitters using a 1-carbazolylcarbazole based donor. *Chemical Communications*, **2016**, 52, 10032-5	5.8	16
437	Synthesis of dimesitylborane-substituted phenylcarbazoles as bipolar host materials and the variation of the green PHOLED performance with the substituent position of the boron atom. *Dalton Transactions*, **2014**, 43, 7712-5	4.3	16
436	Improved power efficiency in deep blue phosphorescent organic light-emitting diodes using an acridine core based hole transport material. *Organic Electronics*, **2012**, 13, 1245-1249	3.5	16
435	One-pot synthesis of homoleptic iridium (III) dyes created using alkoxo-functionalized bipyridine ligands and these dyes' applications for organic light-emitting diodes. *Dyes and Pigments*, **2017**, 137, 378-383	4.6	16
434	A novel pyrrolocarbazole donor for stable and highly efficient thermally activated delayed fluorescent emitters. *Dyes and Pigments*, **2017**, 136, 529-534	4.6	16

433	High efficiency in solution processed blue phosphorescent organic light-emitting diodes using an alcohol soluble emitting layer. *Organic Electronics*, **2011**, 12, 1595-1599	3.5	16
432	Thermally stable fluorescent blue organic light-emitting diodes using spirobifluorene based anthracene host materials with different substitution position. *Synthetic Metals*, **2010**, 160, 1184-1188	3.6	16
431	Cyclometalated Platinum(II) β-Diketonate Complexes as Single Dopants for High-Efficiency White OLEDs: The Relationship between Intermolecular Interactions in the Solid State and Electroluminescent Efficiency. *Crystal Growth and Design*, **2020**, 20, 6129-6138	3.5	16
430	Ternary Exciplexes for High Efficiency Organic Light-Emitting Diodes by Self-Energy Transfer. *Advanced Optical Materials*, **2019**, 7, 1801462	8.1	16
429	Asymmetric Blue Multiresonance TADF Emitters with a Narrow Emission Band. *ACS Applied Materials & Interfaces*, **2021**, 13, 45798-45805	9.5	16
428	Design strategy of exciplex host for extended operational lifetime. *Organic Electronics*, **2017**, 48, 285-290	3.5	15
427	Management of thermally activated delayed fluorescence using a secondary electron accepting unit in thermally activated delayed fluorescent emitters. *Journal of Materials Chemistry C*, **2019**, 7, 6465-6474	7.1	15
426	Carbazole-carboline core as a backbone structure of high triplet energy host materials. *Dyes and Pigments*, **2015**, 120, 258-264	4.6	15
425	C1-, C2-, and C3-Modified Carbazole Derivatives as Promising Host Materials for Phosphorescent Organic Light-Emitting Diodes. *Organic Letters*, **2020**, 22, 2786-2790	6.2	15
424	Synthesis and characterization of quinoxaline derivative for high performance phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2018**, 153, 132-136	4.6	15
423	Metal-free and purely organic phosphorescent light-emitting diodes using phosphorescence harvesting hosts and organic phosphorescent emitters. *Journal of Materials Chemistry C*, **2019**, 7, 11500-11506	7.1	15
422	A hole transport material with ortho- linked terphenyl core structure for high power efficiency in blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2014**, 15, 399-404	3.5	15
421	High external quantum efficiency in yellow and white phosphorescent organic light-emitting diodes using an indoloacridinefluorene type host material. *Organic Electronics*, **2014**, 15, 1843-1848	3.5	15
420	Molecular design of thermally activated delayed fluorescent emitters for blue-shifted emission by methoxy substitution. *Journal of Materials Chemistry C*, **2017**, 5, 9106-9114	7.1	15
419	A phosphine oxide-substituted double spirobifluorene compound with high thermal stability. *Journal of Information Display*, **2015**, 16, 105-109	4.1	15
418	Comparison of tetraphenylmethane and tetraphenylsilane as core structures of high-triplet-energy hole- and electron-transport materials. *Chemistry - A European Journal*, **2012**, 18, 6457-61	4.8	15
417	White organic light-emitting diodes using a quantum dot as a color changing material. *Journal of Industrial and Engineering Chemistry*, **2009**, 15, 602-604	6.3	15
416	Improved high temperature stability of organic solar cells using a phosphine oxide type cathode modification layer. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1102-1106	6.4	15

415	Lifetime study of red phosphorescent organic light-emitting diodes with a double doping structure. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 813-815	6.3	15
414	The effect of silane interlayer for high efficiency and long lifetime in polymer light emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2008**, 14, 792-795	6.3	15
413	Over 30□000 h Device Lifetime in Deep Blue Organic Light-Emitting Diodes with y Color Coordinate of 0.086 and Current Efficiency of 37.0□cd A□1. *Advanced Optical Materials*, **2021**, 9, 2100203	8.1	15
412	A novel molecular design featuring the conversion of inefficient TADF emitters into efficient TADF emitters for deep-blue organic light emitting diodes. *Chemical Engineering Journal*, **2021**, 416, 129097	14.7	15
411	Acridine derived stable host material for long lifetime blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2016**, 34, 33-37	3.5	15
410	Benzofuroacridine and benzothienoacridine as new donor moieties for emission color management of thermally activated delayed fluorescent emitters. *Journal of Materials Chemistry C*, **2019**, 7, 4573-4580	7.1	14
409	Ancillary ligand-assisted robust deep-red emission in iridium(III) complexes for solution-processable phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2019**, 7, 4143-4154	7.1	14
408	Triggering Thermally Activated Delayed Fluorescence by Managing the Heteroatom in Donor Scaffolds: Intriguing Photophysical and Electroluminescence Properties. *Chemistry - an Asian Journal*, **2019**, 14, 2251-2258	4.5	14
407	Correlation of the molecular structure of host materials with lifetime and efficiency of blue phosphorescent organic light-emitting diodes. *Physical Chemistry Chemical Physics*, **2015**, 17, 24468-74	3.6	14
406	Synthesis and characterization of phenylpyridine derivative containing an imide functional group on an iridium (III) complex for solution-processable orange-phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2015**, 121, 73-78	4.6	14
405	Effect of Polarity of Small Molecule Interlayer Materials on the Open Circuit Voltage and Power Conversion Efficiency of Polymer Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 18789-18794	3.8	14
404	Highly efficient blue light-emitting diodes containing spirofluorene derivatives end-capped with triphenylamine/phenylcarbazole. *Synthetic Metals*, **2011**, 161, 2024-2030	3.6	14
403	Improved device performances in polymer light-emitting diodes using a stamp transfer printing process. *Organic Electronics*, **2009**, 10, 372-375	3.5	14
402	Air stable and low temperature evaporable Li3N as a n type dopant in organic light-emitting diodes. *Synthetic Metals*, **2009**, 159, 1664-1666	3.6	14
401	Pure blue phosphorescence by new N- heterocyclic carbene-based Ir(III) complexes for organic light-emitting diode application. *Dyes and Pigments*, **2018**, 150, 1-8	4.6	14
400	Purely Spin-Vibronic Coupling Assisted Triplet to Singlet Up-Conversion for Real Deep Blue Organic Light-Emitting Diodes with Over 20% Efficiency and y Color Coordinate of 0.05. *Advanced Science*, **2021**, 8, e2101137	13.6	14
399	Degradation mechanism study and electron scattering device structure for long lifetime in blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2017**, 43, 82-86	3.5	13
398	Molecular design and synthetic approach to C2,C3,C4-modified carbazoles: high triplet energy bipolar host materials for efficient blue phosphorescent organic light emitting diodes. *Chemical Communications*, **2019**, 55, 8178-8181	5.8	13

397	15H-Diindolo[2,3-b:1?,2?,3?-lm]carbazole: a novel rigid donor for highly efficient thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 8037-8044	7.1	13
396	Dual Mode Radiative Transition from a Phenoselenazine Derivative and Electrical Switching of the Emission Mechanism. *Journal of Physical Chemistry Letters*, **2020**, 11, 5591-5600	6.4	13
395	Molecular Design of Blue Phosphorescent Host Materials for Phenylimidazole-Type Blue Triplet Emitters to Extend Operational Lifetime. *Advanced Optical Materials*, **2018**, 6, 1701263	8.1	13
394	High quantum efficiency and color stability in white phosphorescent organic light emitting diodes using a pyridine modified carbazole derivative. *Dyes and Pigments*, **2014**, 103, 34-38	4.6	13
393	High-color rendering index white organic light-emitting diodes based on exciplex forming blue emitters. *Journal of Industrial and Engineering Chemistry*, **2017**, 46, 49-53	6.3	13
392	Synthesis of pyrimidine-cored host materials bearing phenylcarbazole for efficient yellow phosphorescent devices: effect of linkage position. *RSC Advances*, **2015**, 5, 17030-17033	3.7	13
391	Thermally stable aromatic amine derivative with symmetrically substituted double spirobifluorene core as a hole transport material for green phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2012**, 522, 415-419	2.2	13
390	A diphenyl ether bridged, high triplet energy host material for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2013**, 98, 372-376	4.6	13
389	Correlation of lifetime and recombination zone in green phosphorescent organic light-emitting diodes. *Applied Physics Letters*, **2009**, 94, 093501	3.4	13
388	Color control of multilayer stacked white polymer light-emitting diodes using a quantum dot as an interlayer. *Applied Physics Letters*, **2009**, 94, 093303	3.4	13
387	Origin of bistable memory characteristics of organic light-emitting diodes with LiF/Al cathode. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 230-232	6.3	13
386	Fusing acridine and benzofuran/benzothiophene as a novel hybrid donor for high-performance and low efficiency roll-off TADF OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 1864-1870	7.1	13
385	Novel hole blocking materials based on 2,6-disubstituted dibenzo[b,d]furan and dibenzo[b,d]thiophene segments for high-performance blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 826-834	7.1	12
384	Bipyridine-based iridium(iii) triplet emitters for organic light-emitting diodes (OLEDs): application and impact of phenyl substitution at the 5-position of the N-coordinating pyridine ring. *Dalton Transactions*, **2019**, 48, 9734-9743	4.3	12
383	Interlayer free hybrid white organic light-emitting diodes with red/blue phosphorescent emitters and a green thermally activated delayed fluorescent emitter. *Organic Electronics*, **2015**, 21, 100-105	3.5	12
382	Acridine modified dibenzothiophene derivatives as high triplet energy host materials for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2015**, 122, 103-108	4.6	12
381	Synthesis of dibenzothiophene-based host materials and their blue phosphorescent device performances. *Organic Electronics*, **2015**, 22, 92-97	3.5	12
380	Novel carbazole derivative as a host material for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2015**, 114, 146-150	4.6	12

379	Color tuning of dibenzo[a,c]phenazine-2,7-dicarbonitrile-derived thermally activated delayed fluorescence emitters from yellow to deep-red. *Journal of Materials Chemistry C*, **2020**, 8, 7059-7066	7.1	12
378	Novel Positive Polaron Stabilizing n-Type Host for High Efficiency and Long Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 19737-19745	9.5	12
377	Synthesis and green phosphorescent OLED device performance of cyanofluorene-linked phenylcarbazoles as host material. *New Journal of Chemistry*, **2018**, 42, 5059-5065	3.6	12
376	Molecular design of host materials for stable blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2016**, 125, 274-281	4.6	12
375	Two-channel emission controlled by a conjugation valve for the color switching of thermally activated delayed fluorescence emission. *Journal of Materials Chemistry C*, **2019**, 7, 9908-9916	7.1	12
374	Carbazole modified terphenyl based high triplet energy host materials for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2014**, 101, 150-155	4.6	12
373	Thermally stable indoloacridine type host material for high efficiency blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2014**, 15, 3773-3779	3.5	12
372	Phosphorescent organic light-emitting diodes fabricated using iridium complexes with carbazole-based benzothiazole ligands. *Synthetic Metals*, **2013**, 178, 10-17	3.6	12
371	Selective F or Br Functionalization of Dibenzofuran for Application as Host Materials of Phosphorescent Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2017**, 23, 16044-16050	4.8	12
370	High efficiency thermally activated delayed fluorescent devices using a mixed host of carbazole and phosphine oxide derived host materials. *Synthetic Metals*, **2015**, 201, 49-53	3.6	12
369	9-(Pyridin-3-yl)-9H-carbazole derivatives as host materials for green phosphorescent organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 1291-1296	3.5	12
368	Efficiency Improvement of Solution Processed Blue Phosphorescent Devices Using High Triplet Energy Electron Transport Layer. *Electrochemical and Solid-State Letters*, **2010**, 13, J122		12
367	High efficiency and long lifetime in organic light-emitting diodes using bilayer electron injection structure. *Synthetic Metals*, **2009**, 159, 1292-1294	3.6	12
366	Solution processed white phosphorescent organic light-emitting diodes with a double layer emitting structure. *Organic Electronics*, **2011**, 12, 291-294	3.5	12
365	Role of the interfacial layer in the efficiency and lifetime of polymeric light emitting devices. *Journal of Applied Physics*, **2007**, 102, 024506	2.5	12
364	Orange Phosphorescent Organic Light-emitting Diodes Using a Spirobenzofluorene-type Phospine Oxides as Host Materials. *Bulletin of the Korean Chemical Society*, **2010**, 31, 2955-2960	1.2	12
363	Exciplex hosts for blue phosphorescent organic light-emitting diodes. *Journal of Information Display* , **2020**, 21, 11-18	4.1	12
362	Design and fabrication of two-stack tandem-type all-phosphorescent white organic light-emitting diode for achieving high color rendering index and luminous efficacy. *Optics Express*, **2016**, 24, 24161-24168	3.3	12

361	Effect of interconnection position of bicarbazole-triazine type bipolar host materials on the photophysical and device performances. *Journal of Industrial and Engineering Chemistry*, **2017**, 51, 295-302	6.3	11
360	Design of Thermally Activated Delayed Fluorescent Assistant Dopants to Suppress the Nonradiative Component in Red Fluorescent Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2019**, 25, 9060-9070	4.8	11
359	Management of Triplet Energy and Charge-Transport Properties of Hosts by CN Position Engineering. *Journal of Physical Chemistry C*, **2019**, 123, 8531-8540	3.8	11
358	Pyridoindole modified carbazole compounds as high triplet energy host materials of imidazole derived blue triplet emitters for high quantum efficiency. *Organic Electronics*, **2015**, 22, 74-80	3.5	11
357	Synthesis of dibenzothiophene-based host materials with a dimesitylborane substituent and their green PHOLED performances. *Dalton Transactions*, **2015**, 44, 8360-3	4.3	11
356	Carboline modified dibenzofuran as a high triplet host material for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2015**, 113, 743-747	4.6	11
355	Pyrimidine based hole-blocking materials with high triplet energy and glass transition temperature for blue phosphorescent OLEDs. *Synthetic Metals*, **2018**, 239, 43-50	3.6	11
354	Synthesis of a dibenzothiophene/carboline/carbazole hybrid bipolar host material for green phosphorescent OLEDs. *Synthetic Metals*, **2016**, 213, 7-11	3.6	11
353	High efficiency above 20% in polymeric thermally activated delayed fluorescent organic light-emitting diodes by a host embedded backbone structure. *Polymer Chemistry*, **2019**, 10, 4872-4878	4.9	11
352	Simplified p-i-n organic light-emitting diodes using an universal ambipolar material. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 309-311	6.3	11
351	Synthesis of novel benzothiophene derivative as a host material for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2017**, 136, 145-149	4.6	11
350	High power efficiency in single layer blue phosphorescent organic light-emitting diodes. *Journal of Luminescence*, **2011**, 131, 2788-2791	3.8	11
349	Above 20% external quantum efficiency in green and white phosphorescent organic light-emitting diodes using an electron transport type green host material. *Organic Electronics*, **2011**, 12, 1893-1898	3.5	11
348	Fabrication of high efficiency and color stable white organic light-emitting diodes by an alignment free mask patterning. *Organic Electronics*, **2009**, 10, 384-387	3.5	11
347	Improved efficiency in organic solar cells through fluorinated interlayer induced crystallization. *Organic Electronics*, **2009**, 10, 1583-1589	3.5	11
346	Small molecule based mixed interlayer for color control of solution processed multilayer white polymer light-emitting diodes. *Organic Electronics*, **2010**, 11, 184-187	3.5	11
345	Pyridine substituted spirofluorene derivative as an electron transport material for high efficiency in blue organic light-emitting diodes. *Thin Solid Films*, **2010**, 519, 890-893	2.2	11
344	Intramolecular energy transfer in heteroleptic red phosphorescent dopants. *Applied Physics Letters*, **2006**, 89, 223517	3.4	11

343	Strategic Synchronization of 7,7-Dimethyl-5,7-dihydroindeno[2,1-]carbazole for Narrow-Band, Pure Violet Organic Light-Emitting Diodes with an Efficiency of > 5% and a CIE Coordinate of ACS Applied Materials & Interfaces, **2021**, 13, 14440-14446	9.5	11
342	Electrostatic potential dispersing pyrimidine-5-carbonitrile acceptor for high efficiency and long lifetime thermally activated delayed fluorescence organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 12695-12703	7.1	11
341	The effect of frontier orbital distribution of the core structure on the photophysics and device performances of thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 7760-7767	7.1	10
340	Improved efficiency and stable lifetime in blue phosphorescent organic light-emitting diodes using a stable exciton blocking layer. *Dyes and Pigments*, **2015**, 123, 254-256	4.6	10
339	Over 20% external quantum efficiency in red thermally activated delayed fluorescence organic light-emitting diodes using a reverse intersystem crossing activating host. *Journal of Materials Chemistry C*, **2018**, 6, 5363-5368	7.1	10
338	High efficiency blue phosphorescent organic light-emitting diodes using 2-(1H-pyrazol-1-yl)pyridin-3-ol ligand based Be compound. *Dyes and Pigments*, **2014**, 101, 25-29	4.6	10
337	Pyridine-modified acridine-based bipolar host material for green phosphorescent organic light-emitting diodes. *Chemistry - an Asian Journal*, **2012**, 7, 899-902	4.5	10
336	Solution Processed Blue Phosphorescent Organic Light Emitting Diodes Using a Phosphine Oxide Host Material. *Electrochemical and Solid-State Letters*, **2010**, 13, J71		10
335	Simple high efficiency red phosphorescent organic light-emitting diodes without LiF electron injection layer. *Journal Physics D: Applied Physics*, **2009**, 42, 225103	3	10
334	Organic light emitting bistable memory device with Cs doped electron transport layer. *Journal of Industrial and Engineering Chemistry*, **2009**, 15, 328-330	6.3	10
333	Effect of the interlayer composition on the lifetime and color change of hybrid white organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2011**, 17, 642-644	6.3	10
332	Stable efficiency roll-off in red phosphorescent organic light-emitting diodes using a spirofluorene□benzofluorene based carbazole type host material. *Journal of Luminescence*, **2010**, 130, 2184-2187	3.8	10
331	An excited state managing molecular design platform of blue thermally activated delayed fluorescence emitters by □linker engineering. *Journal of Materials Chemistry C*, **2020**, 8, 1736-1745	7.1	10
330	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. *ACS Energy Letters*, **2021**, 6, 1821-1830	20.1	10
329	Molecular Design Approach Managing Molecular Orbital Superposition for High Efficiency without Color Shift in Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2019**, 25, 1829-1834	4.8	10
328	High efficiency and long lifetime orange-red thermally activated delayed fluorescent organic light emitting diodes by donor and acceptor engineering. *Journal of Materials Chemistry C*, **2021**, 9, 528-536	7.1	10
327	Trisdibenzofuran-derived electron transport type exciton blocking materials for improved efficiency and lifetime in blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 320-325	7.1	10
326	Design of High-Efficiency and Long-Lifetime White Organic Light-Emitting Diodes by Selective Management of Singlet and Triplet Excitons Using a Triplet Exciton Manager. *Advanced Optical Materials*, **2018**, 6, 1800997	8.1	10

325	Narrow bandgap host material for high quantum efficiency yellow phosphorescent organic light-emitting diodes doped with iridium(III) bis(4-phenylthieno[3,2-c]pyridine)acetylacetonate. *Journal of Luminescence*, **2015**, 161, 271-274	3.8	9
324	Concentration quenching resistant donor-acceptor molecular structure for high efficiency and long lifetime thermally activated delayed fluorescent organic light-emitting diodes via suppressed non-radiative channel. *Chemical Engineering Journal*, **2020**, 395, 125159	14.7	9
323	Green phosphorescent homoleptic iridium(III) complexes for highly efficient organic light-emitting diodes. *Dyes and Pigments*, **2018**, 156, 395-402	4.6	9
322	Improved power efficiency in blue phosphorescent organic light-emitting diodes using diphenylmethyl linkage based high triplet energy hole transport materials. *Organic Electronics*, **2013**, 14, 370-377	3.5	9
321	Molecular Design of Thermally Activated Delayed-Fluorescent Emitters Using 2,2′-Bipyrimidine as the Acceptor in Donor-Acceptor Structures. *Chemistry - an Asian Journal*, **2017**, 12, 2494-2500	4.5	9
320	A t -butyl modification approach of acceptor moiety for stable deep blue emission in thermally activated delayed fluorescent devices. *Dyes and Pigments*, **2017**, 138, 176-181	4.6	9
319	High quantum efficiency in blue phosphorescent organic light emitting diodes using ortho-substituted high triplet energy host materials. *Organic Electronics*, **2013**, 14, 1602-1607	3.5	9
318	Multilayer stacked white polymer light-emitting diodes. *Journal Physics D: Applied Physics*, **2009**, 42, 105315	3	9
317	Transparent organic bistable memory devices using a low resistance transparent electrode. *Thin Solid Films*, **2009**, 517, 5573-5575	2.2	9
316	Highly efficient organic light-emitting diodes with a quantum dot interfacial layer. *Nanotechnology*, **2009**, 20, 065204	3.4	9
315	Efficient white phosphorescent organic light-emitting diodes for solid-state lighting applications using an exciton-confining emissive-layer structure. *Journal of Information Display*, **2009**, 10, 92-95	4.1	9
314	A thermally stable hole injection material for use in organic light-emitting diodes. *Thin Solid Films*, **2007**, 515, 7726-7731	2.2	9
313	Improvement in Power Efficiency in Organic Light Emitting Diodes Through Intermediate Mg:Ag Layer in LiF/Mg:Ag/Al Cathodes. *Electrochemical and Solid-State Letters*, **2007**, 10, J117		9
312	Lifetime improvement of polymer light emitting diodes through a poly(3,4-ethylenedioxythiophene):silane hole transport layer. *Chemical Physics Letters*, **2004**, 393, 260-263	2.5	9
311	Universal blue emitters for high efficiency thermally activated delayed fluorescence and fluorescent organic light-emitting diodes. *Dyes and Pigments*, **2020**, 174, 108070	4.6	9
310	Peripheral Decoration of Dibenzofuran with Donors and Acceptors as a New Design Platform for Thermally Activated Delayed Fluorescence Emitters. *Chemistry of Materials*, **2019**, 31, 10023-10031	9.6	9
309	Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices. *Advanced Materials*, **2021**, 33, e2003832	24	9
308	Investigation of degradation mechanism of phosphorescent and thermally activated delayed fluorescent organic light-emitting diodes through doping concentration dependence of lifetime. *Journal of Industrial and Engineering Chemistry*, **2018**, 68, 350-354	6.3	9

307	Bipolar type indolocarbazole host for green phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2018**, 66, 381-386	6.3	9
306	Concentration quenching□esistant multiresonance thermally activated delayed fluorescence emitters. *Materials Today Energy*, **2021**, 21, 100792	7	9
305	Enhancing Performance and Stability of Tin Halide Perovskite Light Emitting Diodes via Coordination Engineering of Lewis Acid□ase Adducts. *Advanced Functional Materials*,2106974	15.6	9
304	Indoloindole as a new building block of a hole transport type host for stable operation in phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 5988-5994	7.1	8
303	Bicarbazole based donor□cceptor compound as a host for thermally activated delayed fluorescent emitter. *Synthetic Metals*, **2015**, 209, 19-23	3.6	8
302	Donor□cceptor type material as a triplet host for high efficiency white phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2015**, 199, 105-109	3.6	8
301	High External Quantum Efficiency in Fluorescent OLED by Cascade Singlet Harvesting Mechanism. *Advanced Optical Materials*, **2020**, 8, 2000328	8.1	8
300	Comprehensive understanding of degradation mechanism of high efficiency blue organic light-emitting diodes at the interface by hole and electron transport layer. *Organic Electronics*, **2018**, 57, 158-164	3.5	8
299	Bis(diphenyltriazine) as a new acceptor of efficient thermally activated delayed fluorescent emitters. *Dyes and Pigments*, **2018**, 151, 75-80	4.6	8
298	Pyridazine derived bipolar host materials for phosphorescent organic light-emitting diodes. *Journal of Luminescence*, **2018**, 194, 33-39	3.8	8
297	Paradigm change of blue emitters: Thermally activated fluorescence emitters as long-living fluorescence emitters by triplet exciton quenching. *Organic Electronics*, **2019**, 75, 105377	3.5	8
296	High quantum efficiency and color stability in white phosphorescent organic light-emitting diodes using carboline derivative as a host material. *Organic Electronics*, **2013**, 14, 3024-3029	3.5	8
295	High color rendering white organic light-emitting diodes fabricated using a broad-bandwidth red phosphorescent emitter for lighting applications. *Synthetic Metals*, **2012**, 162, 2414-2420	3.6	8
294	Organic interlayer for high power efficiency in organic light-emitting diodes. *Synthetic Metals*, **2011**, 161, 40-43	3.6	8
293	Improved efficiency in solution processed green phosphorescent organic light-emitting diodes using a double layer emitting structure fabricated by a stamp transfer printing process. *Organic Electronics*, **2009**, 10, 978-981	3.5	8
292	New heteroleptic cyclometalated iridium(III) complexes containing 2-(2?,4?-difluorophenyl)-4-methylpyridine for organic light-emitting diode applications. *Journal of Luminescence*, **2010**, 130, 1694-1701	3.8	8
291	IR study on the character of hydrogen bonding in novel liquid crystalline epoxy resin. *Polymer Bulletin*, **1997**, 38, 447-454	2.4	8
290	Improved efficiency in red phosphorescent organic light-emitting devices using double doping structure. *Synthetic Metals*, **2007**, 157, 228-230	3.6	8

289	Correlation of doping concentration, charge transport of host, and lifetime of thermally activated delayed fluorescent devices. *Organic Electronics*, **2016**, 37, 252-256	3.5	8
288	Dibenzo[c,g]indolo[3,2,1-jk]carbazole as a new chromophore for blue organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 14301-14305	7.1	8
287	Design Approach of Lifetime Extending Thermally Activated Delayed Fluorescence Sensitizers for Highly Efficient Fluorescence Devices. *Chemistry - A European Journal*, **2021**, 27, 3065-3073	4.8	8
286	Progress in the development of the display performance of AR, VR, QLED and OLED devices in recent years. *Journal of Information Display*, **2022**, 23, 1-17	4.1	8
285	A new benzothienoindole-based bipolar host material for efficient green phosphorescent organic light-emitting diodes with extremely small efficiency roll-off. *Organic Electronics*, **2019**, 70, 211-218	3.5	7
284	Regioisomer effects of dibenzofuran-based bipolar host materials on yellow phosphorescent OLED device performance. *New Journal of Chemistry*, **2020**, 44, 3868-3873	3.6	7
283	Carbazole-dibenzothiophene core as a building block of host materials for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2018**, 155, 114-120	4.6	7
282	Bis(phenylsulfone) as a strong electron acceptor of thermally activated delayed fluorescent emitters. *Physical Chemistry Chemical Physics*, **2016**, 18, 31330-31336	3.6	7
281	Triplet exciton recycling of a phosphorescent emitter by an up-conversion process using a delayed fluorescence type low triplet energy host material. *Journal of Materials Chemistry C*, **2016**, 4, 1606-1612	7.1	7
280	Pyridine and carbazole modified biphenyl as a host for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2014**, 109, 1-5	4.6	7
279	High efficiency yellowish green phosphorescent emitter derived from phenylbenzothienopyridine ligand. *Organic Electronics*, **2014**, 15, 2068-2072	3.5	7
278	Dibenzothiophene derived hosts with CN substituted carbazole for blue thermally activated delayed fluorescent organic light-emitting diodes. *Synthetic Metals*, **2017**, 232, 152-158	3.6	7
277	Development of an exciplex type mixed host using a pyrrolocarbazole type material for extended lifetime in green phosphorescent organic light-emitting diodes. *Organic Electronics*, **2017**, 49, 393-399	3.5	7
276	Synthesis, photophysical and electro-optical properties of bis-carbazolyl methane based host material for pure-blue phosphorescent OLED. *Journal of Luminescence*, **2012**, 132, 2557-2560	3.8	7
275	High power efficiency in blue phosphorescent organic light-emitting diodes using 2,4-substituted dibenzofuran with a carbazole and a diphenylphosphine oxide. *Organic Electronics*, **2012**, 13, 2589-2593	3.5	7
274	Hole injection improvement by doping of organic material in copper phthalocyanine. *Journal of Industrial and Engineering Chemistry*, **2009**, 15, 907-909	6.3	7
273	Thermally stable triphenylene-based hole-transporting materials for organic light-emitting devices. *Thin Solid Films*, **2011**, 519, 5917-5923	2.2	7
272	Fluorine substituted triazine acceptor based thermally activated delayed fluorescent emitter as an assistant dopant of fluorescent emitter. *Dyes and Pigments*, **2020**, 181, 108549	4.6	7

271	linker mediated coupling of two emitting units for improved efficiency in thermally activated delayed fluorescent emitters. *Dyes and Pigments*, **2019**, 162, 36-42	4.6	7
270	Lifetime-Extending 3-(4-Phenylbenzo[4,5]thieno[3,2-]pyrimidin-2-yl)benzonitrile Acceptor for Thermally Activated Delayed Fluorescence Emitters. *ACS Applied Materials & Interfaces*, **2021**, 13, 2908-2918	9.5	7
269	Design of bicarbazole type host materials for long-term stability in blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2017**, 43, 130-135	3.5	6
268	CN substituted indolocarbazole as a core structure of exciton harvesting and lifetime extending host for green thermally activated delayed fluorescent emitter. *Dyes and Pigments*, **2019**, 164, 233-236	4.6	6
267	High triplet energy crosslinkable hole transport material for blue phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2019**, 78, 324-329	6.3	6
266	Effect of nitrogen position of carboline on the device performances of blue phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2015**, 209, 24-28	3.6	6
265	Molecular design approach of increasing the triplet energy of host materials using pyrrole as a core structure. *RSC Advances*, **2015**, 5, 100378-100383	3.7	6
264	Molecular Engineering of Cyano-Substituted Carbazole-Based Host Materials for Simultaneous Achievement of High Efficiency and Long Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Electronic Materials*, **2020**, 6, 2000132	6.4	6
263	Highly efficient and spectrally stable white organic light-emitting diodes using new red heteroleptic Iridium(III) complexes. *Dyes and Pigments*, **2018**, 149, 363-372	4.6	6
262	A New Lridium(III) Complex as a Deep-Red Phosphorescent Emitter in Organic Light-Emitting Diodes. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 2773-8	1.3	6
261	Molecular design of modifying 4-position of dibenzofuran for high temperature stability and high efficiency. *Dyes and Pigments*, **2016**, 128, 84-88	4.6	6
260	Recombination zone of blue thermally activated delayed fluorescent devices. *Journal of Luminescence*, **2016**, 169, 266-269	3.8	6
259	Synthesis and blue phosphorescent device performances of a new bipolar host material containing pyrazino[2,3-b]indole moiety. *RSC Advances*, **2014**, 4, 57679-57682	3.7	6
258	Synthesis of phenylcarbazole–thiophene-based structural isomers as unipolar host materials for blue PHOLEDs and their device performance. *Organic Electronics*, **2014**, 15, 1413-1421	3.5	6
257	Improved efficiency of inverted organic solar cells using organic hole collecting interlayer. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 661-663	6.3	6
256	Red phosphorescent organic light-emitting diodes using pyridine based electron transport type triplet host materials. *Materials Chemistry and Physics*, **2011**, 127, 300-304	4.4	6
255	Charge Trapping Effect in Phosphorescent Organic Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2009**, 498, 131-139	0.5	6
254	Multilevel luminance control in solution processed tandem organic multistable light-emitting diode fabricated by a stamp transfer printing method. *Organic Electronics*, **2011**, 12, 725-730	3.5	6

253	Thermally Stable Organic Solar Cells Using Small Molecule Exciton Blocking Layer. *Electrochemical and Solid-State Letters*, **2011**, 14, B59		6
252	High efficiency phosphorescent white organic light-emitting diodes using a spirofluorene based phosphine oxide host material. *Thin Solid Films*, **2010**, 518, 4462-4466	2.2	6
251	The effect of the curing agent content on the curing and liquid-crystalline phase of liquid-crystalline epoxy resin. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 374-379	2.6	6
250	Highly Efficient and Solution-Processed Single-Emissive-Layer Hybrid White Organic Light-Emitting Diodes with Tris(triazolo)triazine-Based Blue Thermally Activated Delayed Fluorescence Emitter. *Advanced Optical Materials*,2101518	8.1	6
249	Transformation from Nonthermally Activated Delayed Fluorescence Molecules to Thermally Activated Delayed Fluorescence Molecules. *Advanced Optical Materials*, **2020**, 8, 2001025	8.1	6
248	Rational Molecular Design of Azaacene-Based Narrowband Green-Emitting Fluorophores: Modulation of Spectral Bandwidth and Vibronic Transitions. *ACS Applied Materials & Interfaces*, **2021**, 13, 26227-26236	9.5	6
247	Alkyl free design of anthracene based host material for solution processed blue fluorescent organic light-emitting diodes. *Synthetic Metals*, **2016**, 217, 216-219	3.6	6
246	11,11-Dimethyl-11H-indeno[1,2-b]indolo[1,2,3-jk]carbazole: A rigid chromophore with novel amalgamation strategy for long lifetime blue fluorescent organic light-emitting diodes. *Chemical Engineering Journal*, **2020**, 395, 125125	14.7	6
245	Tris(5-phenyl-1H-1,2,4-triazolyl)iridium(III) Complex and Its Use in Blue Phosphorescent Organic Light-Emitting Diodes to Provide an External Quantum Efficiency of up to 27.8%. *Advanced Optical Materials*, **2021**, 9, 2001957	8.1	6
244	High Efficiency of Over 25% and Long Device Lifetime of Over 500 h at 1,000 nit in Blue Fluorescent Organic Light-Emitting Diodes.. *Advanced Materials*, **2022**, e2108581	24	6
243	Exciton management by co-doping of blue triplet emitter as a lifetime improving method of blue thermally activated delayed fluorescent devices. *Organic Electronics*, **2017**, 45, 104-107	3.5	5
242	Lifetime extension of blue phosphorescent organic light-emitting diodes by suppressing triplet-polaron annihilation using a triplet emitter doped hole transport layer. *Organic Electronics*, **2017**, 49, 152-156	3.5	5
241	Novel distorted donor-acceptor type deep blue fluorescent emitter for high efficiency in non-doped blue and cool white organic light-emitting diodes. *Dyes and Pigments*, **2017**, 142, 243-248	4.6	5
240	Fully flexible organic bistable light-emitting diodes with three level luminance switching. *Journal of Industrial and Engineering Chemistry*, **2015**, 23, 179-181	6.3	5
239	A zig-zag type bidibenzofuran based host material for green phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2015**, 114, 278-282	4.6	5
238	Isomeric fused benzocarbazole as a chromophore for blue fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 8320-8327	7.1	5
237	High-triplet-energy host materials derived from directly-coupled carbazole-pyridoindole moieties. *Dyes and Pigments*, **2016**, 130, 183-190	4.6	5
236	Improved efficiency of organic solar cells by transfer printing induced crystallization of active layer. *Journal of Industrial and Engineering Chemistry*, **2016**, 33, 366-368	6.3	5

235	Design Strategy of Decorating Phenylcarbazole with a Donor and Acceptor for Blue-Shifted Emission in Thermally Activated Delayed Fluorescent Emitters. *Chemistry - A European Journal*, **2019**, 25, 11765-11771	4.8	5
234	Suppressed Nonradiative Decay of an Exciplex by an Inert Host for Efficiency Improvement in a Green Fluorescence Organic Light-Emitting Diode. *Journal of Physical Chemistry C*, **2019**, 123, 26856-26861	3.8	5
233	Carbazolyldibenzofuran-type high-triplet-energy bipolar host material for blue phosphorescent organic light-emitting diodes. *Journal of Luminescence*, **2014**, 146, 333-336	3.8	5
232	Cyclopenta[def]fluorene based high triplet energy hole transport material for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2012**, 13, 1044-1048	3.5	5
231	Correlation of charge trapping and charge transport properties of blue triplet emitters with device performances of blue phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2013**, 176, 47-50	3.6	5
230	Synthesis of 3-substituted carbazole derivative as a host material for deep blue phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2013**, 181, 18-22	3.6	5
229	An indole derivative as a high triplet energy hole transport material for blue phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2013**, 548, 603-607	2.2	5
228	Fabrication and luminance switching of flexible organic bistable light-emitting diodes on flexible substrate. *Journal of Luminescence*, **2013**, 137, 105-108	3.8	5
227	Low driving voltage and high power efficiency in blue phosphorescent organic light-emitting diodes using aromatic amine derivatives with diphenylsilyl linkage. *Synthetic Metals*, **2013**, 167, 1-4	3.6	5
226	Lifetime study of single layer and stacked white organic light-emitting diodes. *Synthetic Metals*, **2012**, 161, 2677-2681	3.6	5
225	Hybrid white organic light-emitting diodes of small molecule and polymer emitters. *Synthetic Metals*, **2012**, 162, 1594-1597	3.6	5
224	Multi-stacked organic light-emitting diodes using zinc oxide nanoparticle interfacial layers. *Current Applied Physics*, **2012**, 12, 1378-1380	2.6	5
223	White organic light-emitting devices utilizing a mixed color-conversion phosphor layer consisting of CaAl12O19:Mn and Zn2SiO4:Mn. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 1770-3	1.3	5
222	Efficiency improvement of polymer light-emitting diodes using a quantum dot interlayer between a hole transport layer and an emitting layer. *Synthetic Metals*, **2010**, 160, 39-41	3.6	5
221	Correlation of recombination zone and device performances of phosphorescent white organic light-emitting diodes. *Thin Solid Films*, **2009**, 517, 4464-4467	2.2	5
220	High efficiency deep blue phosphorescent organic light-emitting diodes using a double emissive layer structure. *Synthetic Metals*, **2009**, 159, 1956-1959	3.6	5
219	Mechanism for the direct electron injection from Al cathode to the phosphine oxide type electron transport layer. *Applied Physics Letters*, **2011**, 98, 073306	3.4	5
218	Pure white phosphorescent organic light-emitting diodes using a phosphine oxide derivative as a high triplet energy host material. *Thin Solid Films*, **2010**, 518, 5827-5831	2.2	5

217	New asymmetric monostyrylamine dopants for blue light-emitting organic electroluminescence device. *Synthetic Metals*, **2008**, 158, 369-374	3.6	5
216	Relationship between work function of indium tin oxide and device performances of C60 modified organic light-emitting diodes. *Current Applied Physics*, **2008**, 8, 475-478	2.6	5
215	Transverse alignment of liquid crystalline epoxy resin on carbon fiber surface. *Journal of Applied Polymer Science*, **2006**, 102, 684-689	2.9	5
214	Relationship between anisotropic orientation and curing of liquid crystalline epoxy resin. *Journal of Applied Polymer Science*, **2006**, 102, 1712-1716	2.9	5
213	The effect of C60 doped interlayer for lifetime improvement of phosphorescent light emitting diodes. *Synthetic Metals*, **2006**, 156, 852-855	3.6	5
212	Cyclometalated Platinum(II) β-Diketonate Complexes with Extremely High External Quantum Efficiency for White Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2021**, 9, 2101233	8.1	5
211	Unveiling the Root Cause of the Efficiency-Lifetime Trade-Off in Blue Fluorescent Organic Light-Emitting Diodes. *Electronic Materials Letters*, **2020**, 16, 1-8	2.9	5
210	New blue phosphorescent heteroleptic Ir(III) complexes with imidazole- and N-methylimidazole carboxylates as ancillary ligands. *Journal of Materials Chemistry C*, **2020**, 8, 13843-13851	7.1	5
209	Triplet emitter doped exciton harvesting layer for improved efficiency and long lifetime in blue phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2016**, 220, 573-577	3.6	5
208	Pyridoindole based intramolecular charge transfer type host material for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2016**, 134, 285-290	4.6	5
207	6H-Benzo[4,5]thieno[2,3-b]indole as a novel donor for efficient thermally activated delayed fluorescence emitters with EQEs over 20%. *Journal of Materials Chemistry C*, **2019**, 7, 13912-13919	7.1	5
206	CN decoration of dibenzofuran modified biphenyl for high triplet energy host for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2021**, 89, 106037	3.5	5
205	Selective efficiency boosting in thermally activated delayed fluorescence emitters by a secondary donor. *Chemical Engineering Journal*, **2021**, 408, 127293	14.7	5
204	Purely organic phosphorescent organic light emitting diodes using alkyl modified phenoselenazine. *Journal of Materials Chemistry C*, **2021**, 9, 8233-8238	7.1	5
203	Dibenzothiophene and indolocarbazole cored bipolar hosts for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2018**, 62, 560-565	3.5	5
202	Effect of donor and acceptor position on light emitting performances of thermally activated delayed fluorescent emitters with two bicarbazole donors and two cyano acceptors. *Synthetic Metals*, **2017**, 227, 37-42	3.6	4
201	In-situ generation of silver nanoparticle embedded hole transport layer as an internal light extraction layer for solution processed organic light emitting diodes. *Organic Electronics*, **2019**, 67, 181-186	3.5	4
200	High triplet energy n-type dopants for high efficiency in phosphorescent organic light-emitting diodes. *Organic Electronics*, **2015**, 16, 34-39	3.5	4

199	Blue thermally activated delayed fluorescence based on tristriazolotriazine core: Synthesis, property and the application for solution-processed OLEDs. *Dyes and Pigments*, **2020**, 182, 108589	4.6	4
198	Benzonitrile and dicyanocarbazole derived electron transport type host materials for improved device lifetime in blue thermally activated delayed fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 5832-5838	7.1	4
197	Conformation-dependent degradation of thermally activated delayed fluorescence materials bearing cycloamino donors. *Communications Chemistry*, **2020**, 3,	6.3	4
196	3-Cyano Imidazopyridine Acceptor-based Bipolar and n-type Host Materials for Phosphorescent Organic Light-Emitting Diodes. *Asian Journal of Organic Chemistry*, **2018**, 7, 2218-2222	3	4
195	Dibenzo[b,d]furan and dibenzo[b,d]thiophene molecular dimers as hole blocking materials for high-efficiency and long-lived blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 9599-9608	7.1	4
194	Stable hole transport type host boosting the efficiency and lifetime of the exciplex host based phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2019**, 171, 107714	4.6	4
193	Dual role of a pyrene derivative as a hole transport material and an emitter in blue fluorescent organic light-emitting diodes. *Dyes and Pigments*, **2019**, 171, 107759	4.6	4
192	Negative Polaron-Stabilizing Host for Improved Operational Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2017**, 5, 1700387	8.1	4
191	P-131: Synthesis and Device Application of a Dibenzothiophene Derivative as Thermally Activated Delayed Fluorescence Material for Green Fluorescence OLED. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 1658-1660	0.5	4
190	Synthesis and their device performance of solution processable host materials based on carbazole derivatives. *Synthetic Metals*, **2012**, 162, 1828-1833	3.6	4
189	Polymer photovoltaic cells with a graded active region achieved using double stamp transfer printing. *Applied Physics Letters*, **2013**, 103, 193301	3.4	4
188	Relationship between the particle size of quantum dots and bistability of the quantum dot embedded organic memory devices. *Journal of Industrial and Engineering Chemistry*, **2011**, 17, 105-108	6.3	4
187	Efficient Inverted Top-Emitting Organic Light Emitting Diodes with Transparent and Surface-Modified Multilayer Anodes. *Electrochemical and Solid-State Letters*, **2010**, 13, J43		4
186	Bistability and improved hole injection in organic bistable light-emitting diodes using a quantum dot embedded hole transport layer. *Synthetic Metals*, **2010**, 160, 1216-1218	3.6	4
185	Control of device performances of phosphorescent white organic light-emitting diodes by managing charge transport properties of host materials. *Journal of Luminescence*, **2009**, 129, 389-392	3.8	4
184	Low driving voltage in white organic light-emitting diodes using an interfacial energy barrier free multilayer emitting structure. *Journal of Luminescence*, **2009**, 129, 937-940	3.8	4
183	Effect of doping concentration on device performances of triplet mixed host devices. *Synthetic Metals*, **2009**, 159, 1295-1297	3.6	4
182	Origin of bistability in polyfluorene-based organic bistable devices. *Synthetic Metals*, **2009**, 159, 1809-1811	3.6	4

181	Synthesis and device performances of phenothiazine based red phosphorescent host materials. *Journal of Industrial and Engineering Chemistry*, **2011**, 17, 575-579	6.3	4
180	High Efficiency Organic Bistable Light-Emitting Diodes with Little Efficiency Roll-Off. *Electrochemical and Solid-State Letters*, **2011**, 14, J31		4
179	Effect of host and interlayer structures on device performances of hybrid white organic light-emitting diodes. *Journal of Luminescence*, **2010**, 130, 1211-1215	3.8	4
178	IR study of hydrogen bonding in novel liquid crystalline epoxy/DGEBA blends. *Polymer Bulletin*, **1997**, 38, 439-445	2.4	4
177	Pure color emission in transparent organic light-emitting diodes. *Thin Solid Films*, **2007**, 515, 6997-7000	2.2	4
176	Relationship between dopant energy levels and device performances of triplet mixed host devices. *Journal of Luminescence*, **2008**, 128, 2035-2037	3.8	4
175	Hole blocking layer free phosphorescent organic light-emitting diodes by using a charge confining structure. *Synthetic Metals*, **2007**, 157, 1004-1007	3.6	4
174	Molecular design featuring carbazole-decorated 15H-diindolo[2,3-b:1?,2?,3?-lm]carbazole for improved efficiency and lifetime of thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2020**, 8, 2491-2499	7.1	4
173	Key host parameters for long lifetimes in phosphorescent organic light-emitting diodes: bond dissociation energy in triplet excited state. *Journal of Materials Chemistry C*, **2020**, 8, 1697-1703	7.1	4
172	Zig-Zag Type Molecular Design Strategy of N-Type Hosts for Sky-Blue Thermally-Activated Delayed Fluorescence Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2020**, 26, 2429-2435	4.8	4
171	Energy level management of CN substituted terdibenzofuran exciton blocking materials by controlling interconnect position of dibenzofuran and CN substitution positions. *Dyes and Pigments* , **2019**, 162, 1-7	4.6	4
170	Lifetime extension in green thermally activated delayed fluorescent organic light-emitting diodes by increasing excited state bond dissociation energy. *Journal of Industrial and Engineering Chemistry* , **2019**, 69, 364-369	6.3	4
169	CN-Modified Imidazopyridine as a New Electron Accepting Unit of Thermally Activated Delayed Fluorescent Emitters. *Chemistry - A European Journal*, **2020**, 26, 845-852	4.8	4
168	A study on the effect of a pyridine secondary acceptor on the emission properties of thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2020**, 8, 7485-7491	7.1	4
167	Starburst Type Benzofuroindolocarbazole Donor for High Efficiency and Long Lifetime in Thermally Activated Delayed Fluorescence Emitters. *Advanced Optical Materials*, **2021**, 9, 2001432	8.1	4
166	Molecular design opening two emission pathways for high efficiency and long lifetime of thermally activated delayed fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2021**, 9, 7328-7335	7.1	4
165	Benzonitirile modified N type host for exciplex host to enhance efficiency and lifetime in blue phosphorescent organic light-emitting diodes. *Chemical Engineering Journal*, **2021**, 429, 132584	14.7	4
164	Novel secondary acceptor based molecular design for superb lifetime in thermally activated delayed fluorescent organic light-emitting diodes through high bond energy and fast up-conversion. *Chemical Engineering Journal*, **2022**, 427, 130988	14.7	4

163	Evidence and Governing Factors of the Radical-Ion Photoredox Catalysis. *ACS Catalysis*,6047-6059	13.1	4
162	Triplet energy boosting ternary exciplex host for improved efficiency in deep blue phosphorescent organic light emitting diode. *Organic Electronics*, **2019**, 75, 105441	3.5	3
161	12-1: Analysis of Key Factors Affecting the Lifetime of Blue Phosphorescent OLED Using CN Modified Blue Host Materials. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 141-144	0.5	3
160	Spatial separation of two blue triplet emitters for improved lifetime in blue phosphorescent organic light-emitting diodes by confining excitons at the interface between two emitting layers. *Organic Electronics*, **2019**, 69, 227-231	3.5	3
159	Design of electron blocking layer with electron stabilizing unit for improved efficiency and lifetime in blue fluorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2019**, 74, 71-78	6.3	3
158	Propeller type dibenzofurocarbazole as a new rigid donor moiety for highly efficient and long living thermally activated delayed fluorescence emitters. *Chemical Engineering Journal*, **2020**, 400, 125940	14.7	3
157	Solution processed deep blue thermally activated delayed fluorescent emitters using a solubility enhancing acceptor. *Organic Electronics*, **2020**, 82, 105716	3.5	3
156	A negative polaron resistant p-type host for extended lifetime in deep blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 5131-5136	7.1	3
155	Molecular Engineering of Isomeric Benzofurocarbazole Donors for Photophysical Management of Thermally Activated Delayed Fluorescence Emitters. *Chemistry - A European Journal*, **2020**, 26, 4816-4821	4.8	3
154	Novel Host Materials Based on Dibenzothiophene and Carbazolylcarbazole for Extended Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2018**, 6, 1701007	8.1	3
153	CN-carbazole modified diphenylsilane-type high triplet energy hosts for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2018**, 62, 342-350	3.5	3
152	A thermally stable bipolar host material for blue phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2013**, 172, 1-4	3.6	3
151	Synthesis of New Heteroleptic Iridium(III) Complex Consisting of 2-Phenylquinoline and 2-[4-(Trimethylsilyl) phenyl]Pyridine for Red and White Organic Light-Emitting Diodes. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 5587-5592	1.3	3
150	Synthesis and photophysical properties of host materials with high triplet energy based on dibenzofuran and triphenylamine functionalities. *Synthetic Metals*, **2012**, 162, 2059-2062	3.6	3
149	Efficiency Improvement of Solution Processed Blue Phosphorescent Organic Light-Emitting Diodes Using an Alcohol Soluble Exciton Blocking Layer. *Electrochemical and Solid-State Letters*, **2011**, 14, H33		3
148	P-225: Suppressed Efficiency Roll-Off in Phosphorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2008**, 39, 2049	0.5	3
147	17.3: Study of Light Emission Mechanism and Long Lifetime in Phosphorescent Organic Light Emitting Diodes Using Graded Doping Structure. *Digest of Technical Papers SID International Symposium*, **2006**, 37, 1103	0.5	3
146	Deep Blue Emitter Based on Tris(triazolo)triazine Moiety with CIE y □ *Advanced Functional Materials*,2113183	15.6	3

145	Rational design of CN substituted dibenzo[a,c]phenazine acceptor for color tuning of thermally activated delayed fluorescent emitters. *Chemical Engineering Journal*, **2022**, 431, 134216	14.7	3
144	Efficient Host Material Containing 1,3,5-Triazine Moiety for Red Phosphorescent Organic light-emitting diodes (OLEDs). *Bulletin of the Korean Chemical Society*, **2011**, 32, 4075-4078	1.2	3
143	Effects of Substitution Position of Carbazole-Dibenzofuran Based High Triplet Energy Hosts to Device Stability of Blue Phosphorescent Organic Light-Emitting Diodes. *Molecules*, **2021**, 26,	4.8	3
142	Improvement in color purity and lifetime of blue PHOLEDs using a homoleptic iridium(III) complex with fluorinated dibenzofuranyl-imidazole ligand. *Dyes and Pigments*, **2021**, 190, 109334	4.6	3
141	Surface initiated oxidative crosslinking of a polymeric hole transport material for improved efficiency and lifetime in soluble organic light-emitting diodes. *Organic Electronics*, **2016**, 38, 278-282	3.5	3
140	Thermally activated delayed fluorescence type exciplex host for long lifetime in deep blue phosphorescent organic light-emitting diodes. *Chemical Engineering Journal*, **2021**, 417, 128086	14.7	3
139	A pyrimidine-5-carbonitrile acceptor combined with an ortho-linked donor for long lifetime through facilitated reverse intersystem crossing in thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2021**, 9, 2408-2415	7.1	3
138	CN engineered electron transport type hosts for high efficiency and extended lifetime in blue thermally activated delayed fluorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2021**, 9, 1966-1971	7.1	3
137	Key factors of exciplex emission: Exciton binding and intermolecular molecular orbital overlap. *Organic Electronics*, **2018**, 63, 283-288	3.5	3
136	Highly efficient and stable blue organic light-emitting diodes through the selective quenching of long-living triplet exciton of a thermally activated delayed fluorescence emitter. *Journal of Materials Chemistry C*, **2021**, 9, 7458-7464	7.1	3
135	Donor and Acceptor Fused 16,16-Dimethyl-11,16-dihydrodibenzo[2,3:5,6]pyrrolizino[1,7-ab]acridine as a Blue-Emitting Chromophore for High External Quantum Efficiency and Long Lifetime. *Advanced Optical Materials*, **2020**, 8, 2000480	8.1	3
134	33-2: Invited Paper: Lifetime Improvement of Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 462-465	0.5	2
133	Benzocarbazole and diphenyltriazine derived hosts for red phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2019**, 170, 107551	4.6	2
132	Mimicked Host□Dopant System Using Exciplexes in the Organic Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2020**, 124, 15057-15065	3.8	2
131	High quantum efficiency in solution processed blue phosphorescent organic light-emitting diodes based on an asymmetric benzothienopyridine host. *Journal of Luminescence*, **2014**, 153, 317-320	3.8	2
130	Effect of blue doping concentration on the light emission of two-color phosphorescent white organic light emitting diodes. *Thin Solid Films*, **2012**, 520, 3675-3678	2.2	2
129	Highly efficient white phosphorescent organic light emitting diodes using a mixed host structure in deep blue emitting layer. *Thin Solid Films*, **2012**, 520, 5075-5079	2.2	2
128	Diphenylmethyl linked high-triplet-energy material as a host for deep-blue phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2013**, 531, 541-544	2.2	2

127	Design of a novel triplet exciton guiding mixed host for lifetime improvement of phosphorescent organic light-emitting diodes. *Organic Electronics*, **2017**, 51, 1-5	3.5	2
126	34.3: Emitting Materials for Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Using Benzofurocarbazole and Benzothienocarbazole as Donor Moieties. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 502-504	0.5	2
125	22.4: Synthesis of Host Materials for Blue Phosphorescent Organic Light Emitting Diodes (OLEDs) with High Efficiency and Low Driving Voltage. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 323-325	0.5	2
124	A thermally stable imidazole type ligand based Be complex as a triplet host material of green phosphorescent organic light emitting diodes. *Organic Electronics*, **2015**, 24, 315-319	3.5	2
123	Beryllium-Based, High-Triplet-Energy Material as a Host for Blue Phosphorescent Organic Light-Emitting Diodes. *Israel Journal of Chemistry*, **2014**, 54, 967-970	3.4	2
122	High external quantum efficiency in deep blue phosphorescent organic light emitting diodes using a simple device structure. *Thin Solid Films*, **2012**, 520, 7022-7025	2.2	2
121	N,N-Diphenylpyridin-4-amine as a bipolar core structure of high-triplet-energy host materials for blue phosphorescent organic light-emitting diodes. *Chemistry - an Asian Journal*, **2012**, 7, 2203-7	4.5	2
120	Organic Light-Emitting Bistable Memory Devices with Self-Assembled Organic Nanoparticles as a Charge Trapping Center. *Electrochemical and Solid-State Letters*, **2010**, 13, J103		2
119	Luminance Control of Organic Light-Emitting Diodes Using an Organic Bistable Memory Device. *Molecular Crystals and Liquid Crystals*, **2011**, 551, 54-59	0.5	2
118	Effect of Plasma Treatment of ITO Electrode on the Characteristics of Green OLEDs with Alq3-C545T Emissive Layer. *Molecular Crystals and Liquid Crystals*, **2009**, 498, 274-283	0.5	2
117	Origin of colour stability in blue/orange/blue stacked phosphorescent white organic light-emitting diodes. *Journal Physics D: Applied Physics*, **2009**, 42, 015104	3	2
116	Efficiency improvement of red organic light-emitting diodes using a blue phosphorescent exciton blocking layer. *Journal of Luminescence*, **2009**, 129, 300-302	3.8	2
115	Efficiency improvement of blue phosphorescent organic light emitting diodes by using a stacked emitting structure. *Synthetic Metals*, **2009**, 159, 1636-1639	3.6	2
114	Simplified white phosphorescent organic light-emitting diodes without any charge transport layer. *Current Applied Physics*, **2011**, 11, 865-868	2.6	2
113	Effect of gamma irradiation on nutrient digestibility in SPF mini-pig. *Radiation Physics and Chemistry* , **2011**, 80, 123-124	2.5	2
112	An ethylcarbazole based phosphine oxide derivative as a host for deep blue phosphorescent organic light-emitting diode. *Journal of Luminescence*, **2010**, 130, 2238-2241	3.8	2
111	Charge trapping host structure for high efficiency in phosphorescent organic light-emitting diodes. *Journal of Information Display*, **2008**, 9, 14-17	4.1	2
110	Curing behavior of liquid crystalline epoxy/DGEBA blend. *Journal of Applied Polymer Science*, **2007**, 106, 2198-2203	2.9	2

109	The effect of substituent on the anisotropic orientation of liquid crystalline epoxy compounds. *Polymer Bulletin*, **2006**, 57, 983-988	2.4	2
108	Quantitative Correlation of Triplet Exciton Management in Host with the Device Lifetime of Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*,2101444	8.1	2
107	Rational molecular design of deep blue thermally activated delayed fluorescent emitters for high efficiency fluorescent and hyperfluorescent devices. *Organic Electronics*, **2020**, 78, 105604	3.5	2
106	Decoration of 1,3,5-triazine backbone structure with dibenzofuran and triphenylsilyl blocking groups for high stability n-type host in deep blue phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2021**, 95, 260-266	6.3	2
105	Design Rule of Assistant Dopant for High External Quantum Efficiency in Hyperfluorescence Organic Light-Emitting Diodes. *Advanced Photonics Research*, **2021**, 2, 2000109	1.9	2
104	Emission color management of dual emitting organic light-emitting diodes by selective switching of phosphorescence through host engineering. *Journal of Industrial and Engineering Chemistry*, **2021**, 98, 270-274	6.3	2
103	Exciton stabilizing high triplet energy n-type hosts for blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2021**, 190, 109297	4.6	2
102	Serotonin Transporter and COMT Polymorphisms as Independent Predictors of Health-related Quality of Life in Patients with Panic Disorder. *Journal of Korean Medical Science*, **2016**, 31, 757-63	4.7	2
101	Design approach of exciplexes enhancing the singlet and triplet energy by managing electron transport type host. *Organic Electronics*, **2019**, 65, 121-126	3.5	2
100	Lifetime enhancement of exciplex based organic light-emitting diodes by triplet exciton engineering. *Journal of Industrial and Engineering Chemistry*, **2021**, 93, 388-393	6.3	2
99	n-Type host materials based on nitrile and triazine substituted tricyclic aromatic compounds for high-performance blue thermally activated delayed fluorescence devices. *Dyes and Pigments*, **2021**, 187, 109091	4.6	2
98	Molecular design strategy for orange-red thermally activated delayed fluorescence emitters via intramolecular energy transfer and their application in solution processable organic light-emitting diodes. *Chemical Engineering Journal*, **2022**, 428, 131691	14.7	2
97	Nearly 100% Exciton Utilization via Hybridized Inter- and Intramolecular Triplet Exciton Harvesting Channels in Blue Fluorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*,2200256	8.1	2
96	P-187: Development of Blue Emitting Materials for Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes using An Auxillary Acceptor. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1935-1938	0.5	1
95	P-184: Boron Derivatives as Deep Blue Fluorescent Materials for High Efficiency and Long Lifetime. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1924-1927	0.5	1
94	P-185: Highly Efficient and Long Lifetime Bipolar Host Material for Red Phosphorescent Organic Light-Emitting Diodes Using Benzocarbazole and Diphenyltriazine Derivatives. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1928-1931	0.5	1
93	Effect of substituted nitrogen atom location on the photophysical and charge transporting properties of carboline derivatives. *Organic Electronics*, **2019**, 70, 48-54	3.5	1
92	Design of hole transport type host for stable operation in blue organic light-emitting diodes. *Organic Electronics*, **2020**, 82, 105724	3.5	1

91	Spatially separated donor-acceptor design of host materials for independent control of photophysical properties and carrier transport properties. *Synthetic Metals*, **2016**, 215, 121-126	3.6	1
90	Investigation of nozzle printing parameters for OLED emitting layers. *Molecular Crystals and Liquid Crystals*, **2018**, 660, 17-23	0.5	1
89	Solvent effect on device performances of small molecule based solution processed blue phosphorescent organic light-emitting diodes using aromatic and alcohol solvents. *Journal of Luminescence*, **2014**, 146, 512-514	3.8	1
88	High triplet energy Al complex as a host material for blue phosphorescent organic light-emitting diodes. *Organic Electronics*, **2014**, 15, 1071-1075	3.5	1
87	Furopyridine derivatives as host materials for solution processed blue phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2014**, 562, 608-611	2.2	1
86	Solution processed phosphorescent white organic light emitting diodes using a small molecule host material. *Journal of Luminescence*, **2013**, 143, 432-435	3.8	1
85	Synthesis and device application of 3- position modified benzothieno[3,2-c]pyridine derivative. *Dyes and Pigments*, **2013**, 99, 390-394	4.6	1
84	High Efficiency Green and Blue Phosphorescent Organic Light-Emitting Diodes Using Pyrroloacridine Type Hole Transport Material. *Molecular Crystals and Liquid Crystals*, **2013**, 584, 145-152	0.5	1
83	2-Diphenylaminofluoren-7-ylstyrene Derivatives with Various Aromatic End-Capping Groups for Highly Efficient Blue and White Organic Light-Emitting Diodes. *European Journal of Organic Chemistry*, **2011**, 2011, n/a-n/a	3.2	1
82	Ethylcarbazole Based Phosphine Oxide Derivatives as Hosts for Blue Phosphorescent Organic Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2010**, 530, 123/[279]-130/[286]	0.5	1
81	Correlation between host material compositions and performances in organic white-light-emitting diodes with blue/orange/blue emitting stacked structure. *Sensors and Actuators A: Physical*, **2009**, 149, 208-212	3.9	1
80	Relationship between doping concentration and recombination zone in green phosphorescent light-emitting diodes. *Sensors and Actuators A: Physical*, **2009**, 153, 33-36	3.9	1
79	High efficiency blue phosphorescent organic light-emitting diodes without electron transport layer. *Journal of Luminescence*, **2011**, 131, 1621-1624	3.8	1
78	Solution Processed p-Doped Hole Transport Layer for Polymer Light-Emitting Diodes. *Electrochemical and Solid-State Letters*, **2012**, 15, J11		1
77	C60 Modification of Al Anode for Efficient Hole Injection in Organic Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2009**, 499, 11/[333]-17/[339]	0.5	1
76	Effect of Ca interlayer thickness on electron injection of lithium quinolate/Ca/Al cathodes. *Applied Surface Science*, **2008**, 254, 7061-7063	6.7	1
75	Performance improvement of glass-fiber-reinforced polystyrene composite using a surface modifier. I. Synthesis and characterization of poly(EMPS-co-styrene). *Journal of Applied Polymer Science*, **1995**, 56, 1651-1660	2.9	1
74	A reverse intersystem crossing managing assistant dopant for high external quantum efficiency red organic light-emitting diodes. *Journal of Materials Chemistry C*,	7.1	1

73	Spirobifluorene modified electron transport materials for high efficiency in phosphorescent organic light-emitting diodes. *Materials Chemistry Frontiers*,	7.8	1
72	Asymmetrically difunctionalized dibenzo[b,d]furan-based hole blocking materials for high-performance blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2020**, 181, 108534	4.6	1
71	Novel aromatic extended carbazoles as a chemical platform of bipolar hosts for improved lifetime in phosphorescent organic light-emitting diodes. *Journal of Industrial and Engineering Chemistry*, **2020**, 84, 217-225	6.3	1
70	Dimethyl modified terphenyl core based compounds as hosts of blue phosphorescent emitters. *Dyes and Pigments*, **2020**, 173, 107947	4.6	1
69	Donor and acceptor interlock by a planar indolo[3,2,1-jk]carbazole for a suppressed non-radiative mechanism in thermally activated delayed fluorescent emitters. *Journal of Materials Chemistry C*, **2020**, 8, 14490-14498	7.1	1
68	Organic Light-Emitting Diodes: Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices (Adv. Mater. 12/2021). *Advanced Materials*, **2021**, 33, 2170090	24	1
67	Thermally cross-linkable spirobifluorene-core-based hole transport layer with high solvent-resistivity for solution processible OLEDs. *Dyes and Pigments*, **2021**, 187, 109122	4.6	1
66	Enabling high efficiency and long lifetime of pure blue phosphorescent organic light emitting diodes by simple cyano modified carbazole-based host. *Dyes and Pigments*, **2021**, 187, 109118	4.6	1
65	Efficient up-conversion process by isolation of two chromophores in thermally activated delayed fluorescent emitters. *Chemical Engineering Journal*, **2021**, 409, 128285	14.7	1
64	Pyrido[3,4-d]pyrimidine as an Acceptor of Thermally Activated Delayed Fluorescent Emitters: Time-dependent Density Functional Theory Study. *Bulletin of the Korean Chemical Society*, **2021**, 42, 977-982	1.2	1
63	Interface charge transport of multilayer devices for exact analysis of charge behavior in organic optoelectronic devices. *Applied Physics Letters*, **2021**, 118, 203302	3.4	1
62	C2-, C3- spirobifluorene fused carbazole modified triazine as an electron transport type host of exciplex. *Dyes and Pigments*, **2021**, 189, 109247	4.6	1
61	Two-channel singlet exciton harvesting for high efficiency fluorescent organic light-emitting diodes using dual thermally activated delayed fluorescence mechanism. *Materials Today Energy*, **2021**, 20, 100777	7	1
60	Benzothienopyrimidine decorated dibenzofuran as novel n-type hosts for green phosphorescent organic light-emitting diodes: effects of linking topology. *Materials Today Energy*, **2021**, 20, 100650	7	1
59	Phthalonitrile based charge transfer type host for yellow phosphorescent organic light-emitting diodes. *Organic Electronics*, **2021**, 94, 106166	3.5	1
58	Decoration of Dibenzofuran Using Cyanocarbazole via 6-Position as a Molecular Design Approach for High-Triplet-Energy Bipolar Host Materials. *Chemistry - an Asian Journal*, **2019**, 14, 313-321	4.5	1
57	P-172: Geometry Control and Chemical Bond Stabilization of Thermally Activated Delayed Fluorescent Emitter to Get Extended Lifetime in TADF OLEDs. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1807-1810	0.5	1
56	Investigation of Thermally Activated Delayed Fluorescence in Donor–Acceptor Organic Emitters with Time-Resolved Absorption Spectroscopy. *Chemistry of Materials*, **2022**, 34, 2161-2175	9.6	1

55	Highly Efficient and Long-Range Charge-Transfer Complex Emission Between Two Blue Phosphorescent Emitters for White Organic Light-Emitting Diodes. *Advanced Functional Materials*,2112736	15.6	1
54	C1,C8-modified carbazole-based bipolar host materials for blue phosphorescent electroluminescent devices. *Journal of Industrial and Engineering Chemistry*, **2021**, 107, 75-75	6.3	0
53	Effect of ancillary ligand on the photoluminescent and electroluminescent properties of blue Ir(III) complexes bearing main bipyridine ligand. *Chemical Engineering Journal*, **2022**, 431, 134249	14.7	0
52	A novel benzo[4,5]furo[3,2-d]pyrimidine-based host as a n-type host for blue phosphorescent organic light-emitting diodes. *Science China Materials*,1	7.1	0
51	Molecular Design Strategy of Thermally Activated Delayed Fluorescent Emitters Using CN-Substituted Imidazopyrazine as a New Electron-Accepting Unit. *Chemistry - an Asian Journal*, **2020**, 15, 122-128	4.5	0
50	Benzofurodibenzofuran as a universal chemical platform of highly efficient sky-blue thermally activated delayed fluorescence emitters and hosts. *Chemical Engineering Journal*, **2021**, 411, 128550	14.7	0
49	Highly efficient blue phosphorescent organic light-emitting diodes fabricated by solution process using a curable hole transport layer. *Dyes and Pigments*, **2021**, 190, 109328	4.6	0
48	Triplet Exciton Upconverting Blue Exciplex Host for Deep Blue Phosphors. *Chemistry - A European Journal*, **2021**, 27, 12642-12648	4.8	0
47	P-170: Synthesis and Device Performances of High Triplet Energy Electron Transport Materials. *Digest of Technical Papers SID International Symposium*, **2016**, 47, 1757-1759	0.5	0
46	The role of the bulky blocking unit of the fluorescent emitter in efficient green hyper-fluorescent organic light-emitting diodes. *Journal of Information Display*, **2021**, 22, 49-54	4.1	0
45	New blue phosphorescent Pt(II) complex with pyridyltriazole-based tetradentate ligand for organic light-emitting diodes. *Organic Electronics*, **2021**, 98, 106300	3.5	0
44	Metal and halogen-free purely organic room temperature phosphorescence material using heavy atom effect of phenoselenazine. *Organic Electronics*, **2022**, 106, 106534	3.5	0
43	Reverse intersystem crossing accelerating assistant dopant for high efficiency and long lifetime in red hyperfluorescence organic light-emitting diodes. *Chemical Engineering Journal*, **2022**, 137181	14.7	0
42	P-169: Solution-processed Organic Light-emitting Diodes with a Polymeric Hole Transport Layer Crosslinked by Surface Initiated Oxidative Crosslinking. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1912-1914	0.5	
41	P-173: Engineering of Linker Unit for Blue Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1886-1888	0.5	
40	P-192: Development of New Linker Moiety for TADF Materials: Elucidation of Material Properties by Substitution Position Effect. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1950-1953	0.5	
39	P-176: High efficiency hole transporting host materials for blue phosphorescent Organic light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2039-2042	0.5	
38	P-171: Modulation of Dibenzothiophene and Carbazole Moieties in Host Material towards High Performance Blue Phosphorescent OLEDs. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1804-1807	0.5	

37	P-175: High Triplet Energy Exciplex Forming Hole Type Host for High Performance in Deep-blue Phosphorescent Organic Light-emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1818-1821	0.5
36	Al Complex as a Host Material for High Efficiency Green Phosphorescent Organic Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2013**, 130916070550009	3.8
35	P-135: Recombination Zone Monitoring of the Blue Phosphorescent Organic Light-Emitting Diodes during Lifetime Test. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 1671-1673	0.5
34	P-134: Synthesis of Host Material for Blue Phosphorescent Organic Light-Emitting Diodes Derived From Bicarbazole Backbone Structure. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 1668-1670	0.5
33	57.3: Invited Paper: Host and Charge Transport Materials for High Efficiency Deep Blue Phosphorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2012**, 43, 778-779	0.5
32	Dependence of hole and electron current density of mixed host devices on mixed host composition. *Journal of Luminescence*, **2013**, 138, 150-152	3.8
31	P.145L: Late-News Poster: Synthesis and Device Application of Carboline Derivatives as High Triplet Energy Materials for Blue Phosphorescent OLEDs. *Digest of Technical Papers SID International Symposium*, **2013**, 44, 1483-1485	0.5
30	Control of efficiency characteristics in green phosphorescent organic light-emitting devices. *Synthetic Metals*, **2010**, 160, 35-38	3.6
29	Fabrication of Multilayer Polymer Light-Emitting Diodes with a Spin Coated Hole Transport Layer and Stamp Transfer Printed Emitting Layer. *Molecular Crystals and Liquid Crystals*, **2010**, 530, 19/[175]-23/[179]	0.5
28	Host Engineering for High Efficiency in Phosphorescent White Organic Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2009**, 514, 140/[470]-146/[476]	0.5
27	Role of mixed hole transport layer with exciton blocking properties in phosphorescent organic light-emitting diodes. *Synthetic Metals*, **2009**, 159, 568-570	3.6
26	Color stable and interlayer free hybrid white organic light-emitting diodes using an area divided pixel structure. *Synthetic Metals*, **2009**, 159, 1778-1781	3.6
25	The relationship between the host structure and optimum doping concentration in red phosphorescent organic light-emitting diodes. *Thin Solid Films*, **2011**, 519, 4342-4346	2.2
24	High Power Efficiency in Blue Phosphorescent Organic Light-Emitting Diodes Using a Spirobifluorene Phosphine Oxide Compound. *Molecular Crystals and Liquid Crystals*, **2011**, 551, 206-211	0.5
23	Improved Device Performances of Organic Solar Cells with Au Cathode Using a Phosphine Sulfide Type Cathode Modification Layer. *Electrochemical and Solid-State Letters*, **2011**, 14, B93	
22	High efficiency simple white phosphorescent organic light-emitting diodes using a phosphine oxide host. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 1216-9	1.3
21	Efficient hole injection in organic light-emitting diodes using polyvinylidenefluoride as an interlayer. *Journal of Luminescence*, **2010**, 130, 1708-1710	3.8
20	Light emission mechanism of heteroleptic red phosphorescent dopant materials. *Current Applied Physics*, **2008**, 8, 471-474	2.6

19	Relationship between the chemical nature of silanes and device performance of polymer light emitting diodes. *Thin Solid Films*, **2006**, 515, 2705-2708	2.2
18	Performance improvement of polymer light emitting diodes by insertion of a silane layer. *Journal of Information Display*, **2007**, 8, 1-4	4.1
17	High-Efficiency Blue Organic Light-Emitting Diodes Using C[sub 60] as a Surface Modifier on Indium Tin Oxide. *Electrochemical and Solid-State Letters*, **2007**, 10, K39	
16	Rational Management of Charge Transfer Character of Benzothienopyrimidine-Based N-Type Host for Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*,2101435	8.1
15	P-179: Design and Synthesis of Blue Thermally Activated Delayed Fluorescent Emitter with Strong PyCN Acceptor and Multi Donors. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2051-2053	0.5
14	P-183: Development of Highly Efficient Long Wavelength Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Using an Auxiliary Acceptor as Reverse Intersystem Crossing Promoter. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2063-2066	0.5
13	P-173: Improved Efficiency in Blue Fluorescent Organic Light-emitting Devices Using Anthracene-containing Dibenzofuran-Type Host Materials. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2030-2032	0.5
12	P-180: Efficient Blue Phosphorescent Organic Light-Emitting Diode with Extremely High External Quantum Efficiency. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2054-2057	0.5
11	P-181: Efficient Thermally Activated Delayed Fluorescence Sensitizer of Hyperfluorescence OLED by Adding Blocking Group. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2058-2060	0.5
10	P-198: Carboline-Derived Hosts with Triazine Core for High Efficiency and Long Lifetime in Deep-Blue Phosphorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 2083-2086	0.5
9	20-2: Invited Paper: High-Efficiency, Long-Lifetime, Deep-Blue Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 243-244	0.5
8	27-2: Invited Paper: Host Strategy for High-Efficiency and Long-Lifetime Blue Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 337-339	0.5
7	45.1: Invited Paper: Various applications of boron emitters for organic light-emitting diodes. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 492-493	0.5
6	Improved positive polaron stability of the p-type host for long lifetime in phosphorescent organic light-emitting diodes. *Materials Chemistry Frontiers*, **2021**, 5, 7259-7266	7.8
5	P-177: Engineering Host Materials for High Efficiency and Long Operational Lifetime in Blue Phosphorescent Organic Light-emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1825-1828	0.5
4	P-170: Molecular Design of Sensitizer for High Efficiency in Hyper-fluorescent Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1800-1803	0.5
3	P-178: Synthesis of Reverse Intersystem Crossing Facilitating Host Material for High Efficiency in Red Thermally Activated Delayed Fluorescent Organic Light-emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1829-1831	0.5
2	Benzoylphenyltriazine as a new acceptor of donor–acceptor type thermally-activated delayed-fluorescent emitters. *Journal of Industrial and Engineering Chemistry*, **2021**, 102, 226-232	6.3

1	Isomer engineering of universal electron transport materials for suppressed exciton quenching in organic light-emitting diodes. *Dyes and Pigments*, **2022**, 203, 110319	4.6