

Jun Yeob Lee

List of Publications by Year in Descending Order

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

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	Effect of ancillary ligand on the photoluminescent and electroluminescent properties of blue Ir(III) complexes bearing main bipyridine ligand. <i>Chemical Engineering Journal</i> , 2022 , 431, 134249	14.7	0
665	Rational design of CN substituted dibenzo[a,c]phenazine acceptor for color tuning of thermally activated delayed fluorescent emitters. <i>Chemical Engineering Journal</i> , 2022 , 431, 134216	14.7	3
664	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. <i>Chemical Engineering Journal</i> , 2022 , 428, 131691	14.7	2
663	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. <i>Chemical Engineering Journal</i> , 2022 , 427, 130988	14.7	4
662	Progress in the development of the display performance of AR, VR, QLED and OLED devices in recent years. <i>Journal of Information Display</i> , 2022 , 23, 1-17	4.1	8
661	Investigation of Thermally Activated Delayed Fluorescence in Donor-Acceptor Organic Emitters with Time-Resolved Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2022 , 34, 2161-2175	9.6	1
660	High Efficiency of Over 25% and Long Device Lifetime of Over 500 h at 1,000 nit in Blue Fluorescent Organic Light-Emitting Diodes.. <i>Advanced Materials</i> , 2022 , e2108581	24	6
659	Isomer engineering of universal electron transport materials for suppressed exciton quenching in organic light-emitting diodes. <i>Dyes and Pigments</i> , 2022 , 203, 110319	4.6	
658	Metal and halogen-free purely organic room temperature phosphorescence material using heavy atom effect of phenoselenazine. <i>Organic Electronics</i> , 2022 , 106, 106534	3.5	0
657	Reverse intersystem crossing accelerating assistant dopant for high efficiency and long lifetime in red hyperfluorescence organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2022 , 137181	14.7	0
656	C1,C8-modified carbazole-based bipolar host materials for blue phosphorescent electroluminescent devices. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 107, 75-75	6.3	0
655	Cyclometalated Platinum(II) Diketonate Complexes with Extremely High External Quantum Efficiency for White Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021 , 9, 2101233	8.1	5
654	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. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 95, 260-266	6.3	2
653	Organic Light-Emitting Diodes: Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices (Adv. Mater. 12/2021). <i>Advanced Materials</i> , 2021 , 33, 2170090	24	1
652	Thermally cross-linkable spirobifluorene-core-based hole transport layer with high solvent-resistivity for solution processable OLEDs. <i>Dyes and Pigments</i> , 2021 , 187, 109122	4.6	1
651	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
650	Enabling high efficiency and long lifetime of pure blue phosphorescent organic light emitting diodes by simple cyano modified carbazole-based host. <i>Dyes and Pigments</i> , 2021 , 187, 109118	4.6	1

649	Design Rule of Assistant Dopant for High External Quantum Efficiency in Hyperfluorescence Organic Light-Emitting Diodes. <i>Advanced Photonics Research</i> , 2021 , 2, 2000109	1.9	2
648	Efficient up-conversion process by isolation of two chromophores in thermally activated delayed fluorescent emitters. <i>Chemical Engineering Journal</i> , 2021 , 409, 128285	14.7	1
647	Over 30000 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 . <i>Advanced Optical Materials</i> , 2021 , 9, 2100203	8.1	15
646	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021 , 6, 1821-1830	20.1	10
645	20-2: Invited Paper: High-Efficiency, Long-Lifetime, Deep-Blue Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 243-244	0.5	
644	Benzofurodibenzofuran as a universal chemical platform of highly efficient sky-blue thermally activated delayed fluorescence emitters and hosts. <i>Chemical Engineering Journal</i> , 2021 , 411, 128550	14.7	0
643	Rational Molecular Design of Azaacene-Based Narrowband Green-Emitting Fluorophores: Modulation of Spectral Bandwidth and Vibronic Transitions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26227-26236	9.5	6
642	Effects of Substitution Position of Carbazole-Dibenzofuran Based High Triplet Energy Hosts to Device Stability of Blue Phosphorescent Organic Light-Emitting Diodes. <i>Molecules</i> , 2021 , 26,	4.8	3
641	Pyrido[3,4-d]pyrimidine as an Acceptor of Thermally Activated Delayed Fluorescent Emitters: Time-dependent Density Functional Theory Study. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 977-982	13.2	1
640	27-2: Invited Paper: Host Strategy for High-Efficiency and Long-Lifetime Blue Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 337-339	0.5	
639	Interface charge transport of multilayer devices for exact analysis of charge behavior in organic optoelectronic devices. <i>Applied Physics Letters</i> , 2021 , 118, 203302	3.4	1
638	C2-, C3- spirobifluorene fused carbazole modified triazine as an electron transport type host of exciplex. <i>Dyes and Pigments</i> , 2021 , 189, 109247	4.6	1
637	Highly efficient blue phosphorescent organic light-emitting diodes fabricated by solution process using a curable hole transport layer. <i>Dyes and Pigments</i> , 2021 , 190, 109328	4.6	0
636	Emission color management of dual emitting organic light-emitting diodes by selective switching of phosphorescence through host engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 98, 270-274	6.3	2
635	Two-channel singlet exciton harvesting for high efficiency fluorescent organic light-emitting diodes using dual thermally activated delayed fluorescence mechanism. <i>Materials Today Energy</i> , 2021 , 20, 100777	7.7	1
634	Benzothienopyrimidine decorated dibenzofuran as novel n-type hosts for green phosphorescent organic light-emitting diodes: effects of linking topology. <i>Materials Today Energy</i> , 2021 , 20, 100650	7	1
633	Improvement in color purity and lifetime of blue PHOLEDs using a homoleptic iridium(III) complex with fluorinated dibenzofuranyl-imidazole ligand. <i>Dyes and Pigments</i> , 2021 , 190, 109334	4.6	3
632	Exciton stabilizing high triplet energy n-type hosts for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2021 , 190, 109297	4.6	2

631	Phthalonitrile based charge transfer type host for yellow phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2021 , 94, 106166	3.5	1
630	Triplet Exciton Upconverting Blue Exciplex Host for Deep Blue Phosphors. <i>Chemistry - A European Journal</i> , 2021 , 27, 12642-12648	4.8	0
629	A novel molecular design featuring the conversion of inefficient TADF emitters into efficient TADF emitters for deep-blue organic light emitting diodes. <i>Chemical Engineering Journal</i> , 2021 , 416, 129097	14.7	15
628	Starburst Type Benzofuroindolocarbazole Donor for High Efficiency and Long Lifetime in Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Optical Materials</i> , 2021 , 9, 2001432	8.1	4
627	High Triplet Energy Hosts for Blue Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2008332	15.6	49
626	Lifetime enhancement of exciplex based organic light-emitting diodes by triplet exciton engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 93, 388-393	6.3	2
625	Design Approach of Lifetime Extending Thermally Activated Delayed Fluorescence Sensitizers for Highly Efficient Fluorescence Devices. <i>Chemistry - A European Journal</i> , 2021 , 27, 3065-3073	4.8	8
624	The role of the bulky blocking unit of the fluorescent emitter in efficient green hyper-fluorescent organic light-emitting diodes. <i>Journal of Information Display</i> , 2021 , 22, 49-54	4.1	0
623	Thermally activated delayed fluorescence type exciplex host for long lifetime in deep blue phosphorescent organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2021 , 417, 128086	14.7	3
622	CN decoration of dibenzofuran modified biphenyl for high triplet energy host for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2021 , 89, 106037	3.5	5
621	High efficiency and long lifetime orange-red thermally activated delayed fluorescent organic light emitting diodes by donor and acceptor engineering. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 528-536	7.1	10
620	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. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2408-2415	7.1	3
619	n-Type host materials based on nitrile and triazine substituted tricyclic aromatic compounds for high-performance blue thermally activated delayed fluorescence devices. <i>Dyes and Pigments</i> , 2021 , 187, 109091	4.6	2
618	Selective efficiency boosting in thermally activated delayed fluorescence emitters by a secondary donor. <i>Chemical Engineering Journal</i> , 2021 , 408, 127293	14.7	5
617	Molecular design opening two emission pathways for high efficiency and long lifetime of thermally activated delayed fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7328-7335	7.1	4
616	Purely organic phosphorescent organic light emitting diodes using alkyl modified phenoselenazine. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8233-8238	7.1	5
615	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%. <i>Advanced Optical Materials</i> , 2021 , 9, 2001957	8.1	6
614	CN engineered electron transport type hosts for high efficiency and extended lifetime in blue thermally activated delayed fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1966-1971	7.1	3

613	Lifetime-Extending 3-(4-Phenylbenzo[4,5]thieno[3,2-]pyrimidin-2-yl)benzonitrile Acceptor for Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2908-2918	9.5	7
612	Improved positive polaron stability of the p-type host for long lifetime in phosphorescent organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7259-7266	7.8	
611	Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices. <i>Advanced Materials</i> , 2021 , 33, e2003832	24	9
610	High-efficiency, long-lifetime deep-blue organic light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 208-215	35.9	118
609	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. <i>Advanced Science</i> , 2021 , 8, e2101137	13.6	14
608	Asymmetric Blue Multiresonance TADF Emitters with a Narrow Emission Band. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45798-45805	9.5	16
607	Concentration quenching-resistant multiresonance thermally activated delayed fluorescence emitters. <i>Materials Today Energy</i> , 2021 , 21, 100792	7	9
606	Benzonitrile modified N type host for exciplex host to enhance efficiency and lifetime in blue phosphorescent organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2021 , 429, 132584	14.7	4
605	Benzoylphenyltriazine as a new acceptor of donor-acceptor type thermally-activated delayed-fluorescent emitters. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 102, 226-232	6.3	
604	New blue phosphorescent Pt(II) complex with pyridyltriazole-based tetradentate ligand for organic light-emitting diodes. <i>Organic Electronics</i> , 2021 , 98, 106300	3.5	0
603	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. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7458-7464	7.1	3
602	P-176: High efficiency hole transporting host materials for blue phosphorescent Organic light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2039-2042	0.5	
601	Isomeric fused benzocarbazole as a chromophore for blue fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8320-8327	7.1	5
600	Blue thermally activated delayed fluorescence based on tris-triazolotriazine core: Synthesis, property and the application for solution-processed OLEDs. <i>Dyes and Pigments</i> , 2020 , 182, 108589	4.6	4
599	CsPbBr ₃ /CH ₃ NH ₃ PbCl ₃ Double Layer Enhances Efficiency and Lifetime of Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 2191-2199	20.1	25
598	Propeller type dibenzofurocarbazole as a new rigid donor moiety for highly efficient and long living thermally activated delayed fluorescence emitters. <i>Chemical Engineering Journal</i> , 2020 , 400, 125940	14.7	3
597	Mimicked Host-Dopant System Using Exciplexes in the Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15057-15065	3.8	2
596	Dual Mode Radiative Transition From a Phenoselenazine Derivative and Electrical Switching of the Emission Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5591-5600	6.4	13

595	Aggregation-induced phosphorescence enhancement in deep-red and near-infrared emissive iridium(III) complexes for solution-processable OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4789-4800	7.1	16
594	Narrowband and Pure Violet Organic Emitter with a Full Width at Half Maximum of 14 nm and y Color Coordinate of Below 0.02. <i>Small</i> , 2020 , 16, e1907569	11	36
593	Solution processed deep blue thermally activated delayed fluorescent emitters using a solubility enhancing acceptor. <i>Organic Electronics</i> , 2020 , 22, 105716	3.5	3
592	A negative polaron resistant p-type host for extended lifetime in deep blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5131-5136	7.1	3
591	C1-, C2-, and C3-Modified Carbazole Derivatives as Promising Host Materials for Phosphorescent Organic Light-Emitting Diodes. <i>Organic Letters</i> , 2020 , 22, 2786-2790	6.2	15
590	Benzonitrile and dicyanocarbazole derived electron transport type host materials for improved device lifetime in blue thermally activated delayed fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5832-5838	7.1	4
589	Rational Molecular Design of Highly Efficient Yellow-Red Thermally Activated Delayed Fluorescent Emitters: A Combined Effect of Auxiliary Fluorine and Rigidified Acceptor Unit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18730-18738	9.5	26
588	High External Quantum Efficiency in Fluorescent OLED by Cascade Singlet Harvesting Mechanism. <i>Advanced Optical Materials</i> , 2020 , 8, 2000328	8.1	8
587	Heavy Atom Effect of Selenium for Metal-Free Phosphorescent Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2020 , 32, 2583-2592	9.6	35
586	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. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000132	6.4	6
585	Single molecule white emission by intra- and inter-molecular charge transfer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10302-10308	7.1	16
584	Progress of display performances: AR, VR, QLED, and OLED. <i>Journal of Information Display</i> , 2020 , 21, 1-9	4.1	30
583	Design of thermally activated delayed fluorescent sensitizers for high efficiency over 20% and long lifetime in yellow fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5265-5272	7.1	16
582	Regioisomer effects of dibenzofuran-based bipolar host materials on yellow phosphorescent OLED device performance. <i>New Journal of Chemistry</i> , 2020 , 44, 3868-3873	3.6	7
581	A novel fluorene-indolocarbazole hybrid chromophore to assemble high efficiency deep-blue fluorescent emitters with extended device lifetime. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3051-3057	7.1	16
580	Molecular Engineering of Isomeric Benzofurocarbazole Donors for Photophysical Management of Thermally Activated Delayed Fluorescence Emitters. <i>Chemistry - A European Journal</i> , 2020 , 26, 4816-4824	4.8	3
579	Conformation-dependent degradation of thermally activated delayed fluorescence materials bearing cycloamino donors. <i>Communications Chemistry</i> , 2020 , 3,	6.3	4
578	Design of hole transport type host for stable operation in blue organic light-emitting diodes. <i>Organic Electronics</i> , 2020 , 22, 105724	3.5	1

577	Color tuning of dibenzo[a,c]phenazine-2,7-dicarbonitrile-derived thermally activated delayed fluorescence emitters from yellow to deep-red. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7059-7066	7.1	12
576	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. <i>Chemical Engineering Journal</i> , 2020 , 395, 125159	14.7	9
575	Novel Positive Polaron Stabilizing n-Type Host for High Efficiency and Long Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19737-19745 ¹²	9.5	12
574	Asymmetrically difunctionalized dibenzo[b,d]furan-based hole blocking materials for high-performance blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2020 , 181, 108534	4.6	1
573	Fluorine substituted triazine acceptor based thermally activated delayed fluorescent emitter as an assistant dopant of fluorescent emitter. <i>Dyes and Pigments</i> , 2020 , 181, 108549	4.6	7
572	Exciplex hosts for blue phosphorescent organic light-emitting diodes. <i>Journal of Information Display</i> , 2020 , 21, 11-18	4.1	12
571	Novel aromatic extended carbazoles as a chemical platform of bipolar hosts for improved lifetime in phosphorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 84, 217-225	6.3	1
570	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. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2491-2499	7.1	4
569	A bipolar host based high triplet energy electroplex for an over 10 000 h lifetime in pure blue phosphorescent organic light-emitting diodes. <i>Materials Horizons</i> , 2020 , 7, 559-565	14.4	59
568	An excited state managing molecular design platform of blue thermally activated delayed fluorescence emitters by linker engineering. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1736-1745	7.1	10
567	Rational molecular design of deep blue thermally activated delayed fluorescent emitters for high efficiency fluorescent and hyperfluorescent devices. <i>Organic Electronics</i> , 2020 , 78, 105604	3.5	2
566	Fusing acridine and benzofuran/benzothiophene as a novel hybrid donor for high-performance and low efficiency roll-off TADF OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1864-1870	7.1	13
565	Dimethyl modified terphenyl core based compounds as hosts of blue phosphorescent emitters. <i>Dyes and Pigments</i> , 2020 , 173, 107947	4.6	1
564	Unveiling the Root Cause of the Efficiency-Lifetime Trade-Off in Blue Fluorescent Organic Light-Emitting Diodes. <i>Electronic Materials Letters</i> , 2020 , 16, 1-8	2.9	5
563	Molecular Design Strategy of Thermally Activated Delayed Fluorescent Emitters Using CN-Substituted Imidazopyrazine as a New Electron-Accepting Unit. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 122-128	4.5	0
562	Key host parameters for long lifetimes in phosphorescent organic light-emitting diodes: bond dissociation energy in triplet excited state. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1697-1703	7.1	4
561	Zig-Zag Type Molecular Design Strategy of N-Type Hosts for Sky-Blue Thermally-Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2020 , 26, 2429-2435	4.8	4
560	Universal blue emitters for high efficiency thermally activated delayed fluorescence and fluorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2020 , 174, 108070	4.6	9

559	P-179: Design and Synthesis of Blue Thermally Activated Delayed Fluorescent Emitter with Strong PyCN Acceptor and Multi Donors. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2051-2053</i>	0.5	53
558	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. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2063-2066</i>	0.5	
557	P-173: Improved Efficiency in Blue Fluorescent Organic Light-emitting Devices Using Anthracene-containing Dibenzofuran-Type Host Materials. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2030-2032</i>	0.5	
556	P-180: Efficient Blue Phosphorescent Organic Light-Emitting Diode with Extremely High External Quantum Efficiency. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2054-2057</i>	0.5	
555	P-181: Efficient Thermally Activated Delayed Fluorescence Sensitizer of Hyperfluorescence OLED by Adding Blocking Group. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2058-2060</i>	0.5	
554	P-198: Carboline-Derived Hosts with Triazine Core for High Efficiency and Long Lifetime in Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium, 2020, 51, 2083-2086</i>	0.5	
553	New blue phosphorescent heteroleptic Ir(III) complexes with imidazole- and N-methylimidazole carboxylates as ancillary ligands. <i>Journal of Materials Chemistry C, 2020, 8, 13843-13851</i>	7.1	5
552	Transformation from Nonthermally Activated Delayed Fluorescence Molecules to Thermally Activated Delayed Fluorescence Molecules. <i>Advanced Optical Materials, 2020, 8, 2001025</i>	8.1	6
551	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. <i>Crystal Growth and Design, 2020, 20, 6129-6138</i>	3.5	16
550	Three- and Four-Coordinate, Boron-Based, Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Optical Materials, 2020, 8, 2000922</i>	8.1	38
549	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. <i>Journal of Materials Chemistry C, 2020, 8, 14490-14498</i>	7.1	1
548	Highly efficient exciplex organic light-emitting diodes by exciplex dispersion in the thermally activated delayed fluorescence host. <i>Organic Electronics, 2020, 76, 105477</i>	3.5	20
547	CN-Modified Imidazopyridine as a New Electron Accepting Unit of Thermally Activated Delayed Fluorescent Emitters. <i>Chemistry - A European Journal, 2020, 26, 845-852</i>	4.8	4
546	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. <i>Chemical Engineering Journal, 2020, 395, 125125</i>	14.7	6
545	New Direct Approach for Determining the Reverse Intersystem Crossing Rate in Organic Thermally Activated Delayed Fluorescent (TADF) Emitters. <i>Journal of the American Chemical Society, 2020, 142, 8074-8079</i>	16.4	27
544	A study on the effect of a pyridine secondary acceptor on the emission properties of thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C, 2020, 8, 7485-7491</i>	7.1	4
543	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. <i>Advanced Optical Materials, 2020, 8, 2000480</i>	8.1	3
542	Simultaneous Achievement of High Efficiency and Long Lifetime in Deep Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials, 2019, 7, 1901374</i>	8.1	31

541	Highly efficient TADF OLEDs with low efficiency roll-off based on novel acridine-carbazole hybrid donor-substituted pyrimidine derivatives. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12248-12255	7.1	26
540	Triplet energy boosting ternary exciplex host for improved efficiency in deep blue phosphorescent organic light emitting diode. <i>Organic Electronics</i> , 2019 , 75, 105441	3.5	3
539	CN substituted indolocarbazole as a core structure of exciton harvesting and lifetime extending host for green thermally activated delayed fluorescent emitter. <i>Dyes and Pigments</i> , 2019 , 164, 233-236	4.6	6
538	In-situ generation of silver nanoparticle embedded hole transport layer as an internal light extraction layer for solution processed organic light emitting diodes. <i>Organic Electronics</i> , 2019 , 67, 181-185	3.5	4
537	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. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 826-834	7.1	12
536	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. <i>Chemical Communications</i> , 2019 , 55, 8178-8181	5.8	13
535	12-1: Analysis of Key Factors Affecting the Lifetime of Blue Phosphorescent OLED Using CN Modified Blue Host Materials. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 141-144	0.5	3
534	33-2: Invited Paper: Lifetime Improvement of Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 462-465	0.5	2
533	15H-Diindolo[2,3-b:1',2',3'-lm]carbazole: a novel rigid donor for highly efficient thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8037-8044	7.1	13
532	P-187: Development of Blue Emitting Materials for Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes using An Auxillary Acceptor. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1935-1938	0.5	1
531	P-173: Engineering of Linker Unit for Blue Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1886-1888	0.5	
530	P-184: Boron Derivatives as Deep Blue Fluorescent Materials for High Efficiency and Long Lifetime. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1924-1927	0.5	1
529	P-185: Highly Efficient and Long Lifetime Bipolar Host Material for Red Phosphorescent Organic Light-Emitting Diodes Using Benzocarbazole and Diphenyltriazine Derivatives. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1928-1931	0.5	1
528	P-192: Development of New Linker Moiety for TADF Materials: Elucidation of Material Properties by Substitution Position Effect. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1950-1953	0.5	1
527	High triplet energy crosslinkable hole transport material for blue phosphorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 324-329	6.3	6
526	The effect of frontier orbital distribution of the core structure on the photophysics and device performances of thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7760-7767	7.1	10
525	Benzothienopyrimidine as a co-planar type rigid acceptor for high external quantum efficiency in thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7643-7653	7.1	22
524	Benzocarbazole and diphenyltriazine derived hosts for red phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2019 , 170, 107551	4.6	2

523	Isomeric Quinoxalinedicarbonitrile as Color-Managing Acceptors of Thermally Activated Delayed Fluorescent Emitters. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17583-17591	9.5	36
522	Management of thermally activated delayed fluorescence using a secondary electron accepting unit in thermally activated delayed fluorescent emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6465-6474	7.1	15
521	Design of Thermally Activated Delayed Fluorescent Assistant Dopants to Suppress the Nonradiative Component in Red Fluorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019 , 25, 9060-9070	4.8	11
520	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. <i>Organic Electronics</i> , 2019 , 69, 227-231	3.5	3
519	Management of Triplet Energy and Charge-Transport Properties of Hosts by CN Position Engineering. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8531-8540	3.8	11
518	Recent Progress of the Lifetime of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescent Material. <i>Advanced Materials</i> , 2019 , 31, e1803524	24	136
517	Benzofuroacridine and benzothienoacridine as new donor moieties for emission color management of thermally activated delayed fluorescent emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4573-4580	7.1	14
516	Ancillary ligand-assisted robust deep-red emission in iridium(III) complexes for solution-processable phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4143-4154	7.1	14
515	A new benzothienoindole-based bipolar host material for efficient green phosphorescent organic light-emitting diodes with extremely small efficiency roll-off. <i>Organic Electronics</i> , 2019 , 70, 211-218	3.5	7
514	Triggering Thermally Activated Delayed Fluorescence by Managing the Heteroatom in Donor Scaffolds: Intriguing Photophysical and Electroluminescence Properties. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2251-2258	4.5	14
513	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. <i>Dalton Transactions</i> , 2019 , 48, 9734-9743	4.3	12
512	Indoloindole as a new building block of a hole transport type host for stable operation in phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5988-5994	7.1	8
511	Effect of substituted nitrogen atom location on the photophysical and charge transporting properties of carboline derivatives. <i>Organic Electronics</i> , 2019 , 70, 48-54	3.5	1
510	Design of electron blocking layer with electron stabilizing unit for improved efficiency and lifetime in blue fluorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 74, 71-78	6.3	3
509	Progress of display performances: AR, VR, QLED, OLED, and TFT. <i>Journal of Information Display</i> , 2019 , 20, 1-8	4.1	64
508	A novel molecular design employing a backbone freezing linker for improved efficiency, sharpened emission and long lifetime in thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2919-2926	7.1	27
507	High efficiency above 20% in polymeric thermally activated delayed fluorescent organic light-emitting diodes by a host embedded backbone structure. <i>Polymer Chemistry</i> , 2019 , 10, 4872-4878	4.9	11
506	Metal-free and purely organic phosphorescent light-emitting diodes using phosphorescence harvesting hosts and organic phosphorescent emitters. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11500-11506	7.1	15

505	The effect of a heavy atom on the radiative pathways of an emitter with dual conformation, thermally-activated delayed fluorescence and room temperature phosphorescence. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10481-10490	7.1	28
504	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. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9599-9608	7.1	4
503	Two-channel emission controlled by a conjugation valve for the color switching of thermally activated delayed fluorescence emission. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9908-9916	7.1	12
502	Stable hole transport type host boosting the efficiency and lifetime of the exciplex host based phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2019 , 171, 107714	4.6	4
501	Design Strategy of Decorating Phenylcarbazole with a Donor and Acceptor for Blue-Shifted Emission in Thermally Activated Delayed Fluorescent Emitters. <i>Chemistry - A European Journal</i> , 2019 , 25, 11765-11771	4.8	5
500	Paradigm change of blue emitters: Thermally activated fluorescence emitters as long-living fluorescence emitters by triplet exciton quenching. <i>Organic Electronics</i> , 2019 , 75, 105377	3.5	8
499	Dual role of a pyrene derivative as a hole transport material and an emitter in blue fluorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2019 , 171, 107759	4.6	4
498	Phosphor sensitized thermally activated delayed fluorescence organic light-emitting diodes with ideal deep blue device performances. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8562-8568	7.1	37
497	Suppressed Nonradiative Decay of an Exciplex by an Inert Host for Efficiency Improvement in a Green Fluorescence Organic Light-Emitting Diode. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26856-26861	3.8	5
496	Blue Phosphorescent Ir(III) Complexes Achieved with Over 30% External Quantum Efficiency. <i>Advanced Optical Materials</i> , 2019 , 7, 1901387	8.1	22
495	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. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3082-3089	7.1	105
494	Recent Progress of Singlet-Exciton-Harvesting Fluorescent Organic Light-Emitting Diodes by Energy Transfer Processes. <i>Advanced Materials</i> , 2019 , 31, e1803714	24	103
493	45.1: Invited Paper: Various applications of boron emitters for organic light-emitting diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 492-493	0.5	
492	Electrostatic potential dispersing pyrimidine-5-carbonitrile acceptor for high efficiency and long lifetime thermally activated delayed fluorescence organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12695-12703	7.1	11
491	6H-Benzo[4,5]thieno[2,3-b]indole as a novel donor for efficient thermally activated delayed fluorescence emitters with EQEs over 20%. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13912-13919	7.1	5
490	Dibenzo[c,g]indolo[3,2,1-jk]carbazole as a new chromophore for blue organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14301-14305	7.1	8
489	Peripheral Decoration of Dibenzofuran with Donors and Acceptors as a New Design Platform for Thermally Activated Delayed Fluorescence Emitters. <i>Chemistry of Materials</i> , 2019 , 31, 10023-10031	9.6	9
488	Ternary Exciplexes for High Efficiency Organic Light-Emitting Diodes by Self-Energy Transfer. <i>Advanced Optical Materials</i> , 2019 , 7, 1801462	8.1	16

487	Design approach of exciplexes enhancing the singlet and triplet energy by managing electron transport type host. <i>Organic Electronics</i> , 2019 , 65, 121-126	3.5	2
486	Molecular Design Approach Managing Molecular Orbital Superposition for High Efficiency without Color Shift in Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019 , 25, 1829-1834	4.8	10
485	Molecular Design Tactics for Highly Efficient Thermally Activated Delayed Fluorescence Emitters for Organic Light Emitting Diodes. <i>Chemical Record</i> , 2019 , 19, 1499-1517	6.6	18
484	Rational Molecular Design Overcoming the Long Delayed Fluorescence Lifetime and Serious Efficiency Roll-Off in Blue Thermally Activated Delayed Fluorescent Devices. <i>Chemistry - A European Journal</i> , 2019 , 25, 642-648	4.8	24
483	Energy level management of CN substituted terdibenzofuran exciton blocking materials by controlling interconnect position of dibenzofuran and CN substitution positions. <i>Dyes and Pigments</i> , 2019 , 162, 1-7	4.6	4
482	Linker mediated coupling of two emitting units for improved efficiency in thermally activated delayed fluorescent emitters. <i>Dyes and Pigments</i> , 2019 , 162, 36-42	4.6	7
481	Lifetime extension in green thermally activated delayed fluorescent organic light-emitting diodes by increasing excited state bond dissociation energy. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 364-369	6.3	4
480	Decoration of Dibenzofuran Using Cyanocarbazole via 6-Position as a Molecular Design Approach for High-Triplet-Energy Bipolar Host Materials. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 313-321	4.5	1
479	Comprehensive understanding of degradation mechanism of high efficiency blue organic light-emitting diodes at the interface by hole and electron transport layer. <i>Organic Electronics</i> , 2018 , 57, 158-164	3.5	8
478	Managing Orientation of Nitrogens in Bipyrimidine-Based Thermally Activated Delayed Fluorescent Emitters To Suppress Nonradiative Mechanisms. <i>Chemistry of Materials</i> , 2018 , 30, 3215-3222	9.6	32
477	Green phosphorescent homoleptic iridium(III) complexes for highly efficient organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018 , 156, 395-402	4.6	9
476	Deep blue thermally activated delayed fluorescent emitters using CN-modified indolocarbazole as an acceptor and carbazole-derived donors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5012-5017	7.1	41
475	Functionalized phenylimidazole-based facial-homoleptic iridium(III) complexes and their excellent performance in blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4565-4572	7.1	26
474	Synthesis and characterization of quinoxaline derivative for high performance phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018 , 153, 132-136	4.6	15
473	Synthesis and green phosphorescent OLED device performance of cyanofluorene-linked phenylcarbazoles as host material. <i>New Journal of Chemistry</i> , 2018 , 42, 5059-5065	3.6	12
472	Highly Efficient Soluble Blue Delayed Fluorescent and Hyperfluorescent Organic Light-Emitting Diodes by Host Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5700-5705	9.5	53
471	Stimuli responsive AIE active positional isomers of phenanthroimidazole as non-doped emitters in OLEDs. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2077-2087	7.1	64
470	Electroplex as a New Concept of Universal Host for Improved Efficiency and Lifetime in Red, Yellow, Green, and Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Science</i> , 2018 , 5, 1700608	13.6	35

469	Novel Host Materials Based on Dibenzothiophene and Carbazolylcarbazole for Extended Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1701007	8.1	3
468	Bis(diphenyltriazine) as a new acceptor of efficient thermally activated delayed fluorescent emitters. <i>Dyes and Pigments</i> , 2018 , 151, 75-80	4.6	8
467	Spatial separation of sensitizer and fluorescent emitter for high quantum efficiency in hyperfluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1504-1508	7.1	38
466	Lifetime enhancement of blue thermally activated delayed fluorescent devices by separated carrier channels using dibenzofuran-triazine type hosts. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 62, 258-264	6.3	21
465	Over 20% external quantum efficiency in red thermally activated delayed fluorescence organic light-emitting diodes using a reverse intersystem crossing activating host. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5363-5368	7.1	10
464	Molecular Design of Blue Phosphorescent Host Materials for Phenylimidazole-Type Blue Triplet Emitters to Extend Operational Lifetime. <i>Advanced Optical Materials</i> , 2018 , 6, 1701263	8.1	13
463	Carbazole-dibenzothiophene core as a building block of host materials for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018 , 155, 114-120	4.6	7
462	Pyrimidine based hole-blocking materials with high triplet energy and glass transition temperature for blue phosphorescent OLEDs. <i>Synthetic Metals</i> , 2018 , 239, 43-50	3.6	11
461	Pyridazine derived bipolar host materials for phosphorescent organic light-emitting diodes. <i>Journal of Luminescence</i> , 2018 , 194, 33-39	3.8	8
460	Highly efficient and spectrally stable white organic light-emitting diodes using new red heteroleptic Iridium(III) complexes. <i>Dyes and Pigments</i> , 2018 , 149, 363-372	4.6	6
459	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. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8472-8478	7.1	17
458	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. <i>Advanced Functional Materials</i> , 2018 , 28, 1802945	15.6	71
457	3-Cyano Imidazopyridine Acceptor-based Bipolar and n-type Host Materials for Phosphorescent Organic Light-Emitting Diodes. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 2218-2222	3	4
456	Investigation of nozzle printing parameters for OLED emitting layers. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 660, 17-23	0.5	1
455	CN-carbazole modified diphenylsilane-type high triplet energy hosts for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2018 , 62, 342-350	3.5	3
454	P-171: Modulation of Dibenzothiophene and Carbazole Moieties in Host Material towards High Performance Blue Phosphorescent OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1804-1807	0.5	
453	P-175: High Triplet Energy Exciplex Forming Hole Type Host for High Performance in Deep-blue Phosphorescent Organic Light-emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1818-1821	0.5	
452	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. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6778-6783	7.1	19

451	Tris(benzofuran)-derived electron transport type exciton blocking materials for improved efficiency and lifetime in blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 320-325	7.1	10
450	Pure blue phosphorescence by new N- heterocyclic carbene-based Ir(III) complexes for organic light-emitting diode application. <i>Dyes and Pigments</i> , 2018 , 150, 1-8	4.6	14
449	Blue Phosphorescent Platinum Complexes Based on Tetradentate Bipyridine Ligands and Their Application to Organic Light-Emitting Diodes (OLEDs). <i>Organometallics</i> , 2018 , 37, 4639-4647	3.8	29
448	Key factors of exciplex emission: Exciton binding and intermolecular molecular orbital overlap. <i>Organic Electronics</i> , 2018 , 63, 283-288	3.5	3
447	Dihedral Angle Control of Blue Thermally Activated Delayed Fluorescent Emitters through Donor Substitution Position for Efficient Reverse Intersystem Crossing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35420-35429	9.5	51
446	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. <i>Advanced Optical Materials</i> , 2018 , 6, 1800997	8.1	10
445	Investigation of degradation mechanism of phosphorescent and thermally activated delayed fluorescent organic light-emitting diodes through doping concentration dependence of lifetime. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 350-354	6.3	9
444	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. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10308-10314	7.1	38
443	Nearly 100% Horizontal Dipole Orientation and Upconversion Efficiency in Blue Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Optical Materials</i> , 2018 , 6, 1701340	8.1	62
442	Molecular design of sensitizer to suppress efficiency loss mechanism in hyper-fluorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2018 , 59, 236-242	3.5	20
441	P-172: Geometry Control and Chemical Bond Stabilization of Thermally Activated Delayed Fluorescent Emitter to Get Extended Lifetime in TADF OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1807-1810	0.5	1
440	P-177: Engineering Host Materials for High Efficiency and Long Operational Lifetime in Blue Phosphorescent Organic Light-emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1825-1828	0.5	
439	P-170: Molecular Design of Sensitizer for High Efficiency in Hyper-fluorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1800-1803	0.5	
438	P-178: Synthesis of Reverse Intersystem Crossing Facilitating Host Material for High Efficiency in Red Thermally Activated Delayed Fluorescent Organic Light-emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1829-1831	0.5	
437	Bipolar type indolocarbazole host for green phosphorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 381-386	6.3	9
436	Dibenzothiophene and indolocarbazole cored bipolar hosts for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2018 , 62, 560-565	3.5	5
435	Recent Progress of Highly Efficient Red and Near-Infrared Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Optical Materials</i> , 2018 , 6, 1800255	8.1	159
434	Degradation mechanism study and electron scattering device structure for long lifetime in blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 43, 82-86	3.5	13

433	Design of bicarbazole type host materials for long-term stability in blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 43, 130-135	3.5	6
432	Recent Progress in High-Efficiency Blue-Light-Emitting Materials for Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2017 , 27, 1603007	15.6	367
431	In-Situ Formed Type I Nanocrystalline Perovskite Film for Highly Efficient Light-Emitting Diode. <i>ACS Nano</i> , 2017 , 11, 3311-3319	16.7	134
430	Exciton management by co-doping of blue triplet emitter as a lifetime improving method of blue thermally activated delayed fluorescent devices. <i>Organic Electronics</i> , 2017 , 45, 104-107	3.5	5
429	Dibenzothiophene-dioxide acceptor based thermally activated delayed fluorescent emitters for color tunable organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 50, 111-114	6.3	16
428	Molecular Design Strategy of Organic Thermally Activated Delayed Fluorescence Emitters. <i>Chemistry of Materials</i> , 2017 , 29, 1946-1963	9.6	557
427	High triplet energy exciplex hosts for deep blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5923-5929	7.1	35
426	Design strategy of exciplex host for extended operational lifetime. <i>Organic Electronics</i> , 2017 , 48, 285-290	9.5	15
425	Lifetime extension of blue phosphorescent organic light-emitting diodes by suppressing triplet-polaron annihilation using a triplet emitter doped hole transport layer. <i>Organic Electronics</i> , 2017 , 49, 152-156	3.5	5
424	Recent progress of green thermally activated delayed fluorescent emitters. <i>Journal of Information Display</i> , 2017 , 18, 101-117	4.1	50
423	Benzoisoquinoline-1,3-dione acceptor based red thermally activated delayed fluorescent emitters. <i>Dyes and Pigments</i> , 2017 , 144, 212-217	4.6	23
422	Mechanochromism and electroluminescence in positional isomers of tetraphenylethylene substituted phenanthroimidazoles. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6014-6020	7.1	56
421	P-169: Solution-processed Organic Light-emitting Diodes with a Polymeric Hole Transport Layer Crosslinked by Surface Initiated Oxidative Crosslinking. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1912-1914	0.5	
420	CN-Modified Host Materials for Improved Efficiency and Lifetime in Blue Phosphorescent and Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13339-13346	9.5	53
419	A stepwise energy level doping structure for improving the lifetime of phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3948-3954	7.1	18
418	Effect of donor and acceptor position on light emitting performances of thermally activated delayed fluorescent emitters with two bicarbazole donors and two cyano acceptors. <i>Synthetic Metals</i> , 2017 , 227, 37-42	3.6	4
417	Effect of interconnection position of bicarbazole-triazine type bipolar host materials on the photophysical and device performances. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 51, 295-302	6.3	11
416	Novel distorted donor-acceptor type deep blue fluorescent emitter for high efficiency in non-doped blue and cool white organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017 , 142, 243-248	4.6	5

415	Degradation Mechanism and Lifetime Improvement Strategy for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017 , 5, 1600901	8.1	128
414	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , 2017 , 42, 337-342	3.5	34
413	Unconventional Molecular Design Approach of High-Efficiency Deep Blue Thermally Activated Delayed Fluorescent Emitters Using Indolocarbazole as an Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37864-37872	9.5	59
412	Selective F or Br Functionalization of Dibenzofuran for Application as Host Materials of Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2017 , 23, 16044-16050	4.8	12
411	Dibenzothiophene derived hosts with CN substituted carbazole for blue thermally activated delayed fluorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2017 , 232, 152-158	3.6	7
410	Design of a novel triplet exciton guiding mixed host for lifetime improvement of phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 51, 1-5	3.5	2
409	Molecular Design of Thermally Activated Delayed-Fluorescent Emitters Using 2,2MBipyrimidine as the Acceptor in Donor-Acceptor Structures. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2494-2500	4.5	9
408	A design strategy of bipolar host materials for more than 30 times extended lifetime in phosphorescent organic light-emitting diodes using benzocarbazole and quinazoline. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9072-9079	7.1	25
407	Negative Polaron-Stabilizing Host for Improved Operational Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017 , 5, 1700387	8.1	4
406	Molecular design of thermally activated delayed fluorescent emitters for blue-shifted emission by methoxy substitution. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9106-9114	7.1	15
405	A directly coupled dual emitting core based molecular design of thermally activated delayed fluorescent emitters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12143-12150	7.1	17
404	Development of an exciplex type mixed host using a pyrrolocarbazole type material for extended lifetime in green phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 49, 393-399	3.5	7
403	High-color rendering index white organic light-emitting diodes based on exciplex forming blue emitters. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 46, 49-53	6.3	13
402	One-pot synthesis of homoleptic iridium (III) dyes created using alkoxo-functionalized bipyridine ligands and these dyesApplications for organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017 , 137, 378-383	4.6	16
401	Synthesis of novel benzothiophene derivative as a host material for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017 , 136, 145-149	4.6	11
400	A novel pyrrolocarbazole donor for stable and highly efficient thermally activated delayed fluorescent emitters. <i>Dyes and Pigments</i> , 2017 , 136, 529-534	4.6	16
399	A t-butyl modification approach of acceptor moiety for stable deep blue emission in thermally activated delayed fluorescent devices. <i>Dyes and Pigments</i> , 2017 , 138, 176-181	4.6	9
398	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. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5587-5592	1.3	3

397	Fabrication of a vertically-stacked passive-matrix micro-LED array structure for a dual color display. <i>Optics Express</i> , 2017 , 25, 2489-2495	3.3	41
396	Molecular design of host materials for high power efficiency in blue phosphorescent organic light-emitting diodes doped with an imidazole ligand based triplet emitter. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3792-3797	7.1	21
395	Design of ortho-linkage carbazole-triazine structure for high-efficiency blue thermally activated delayed fluorescent emitters. <i>Dyes and Pigments</i> , 2016 , 134, 562-568	4.6	50
394	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. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23190-6	9.5	91
393	Donor Interlocked Molecular Design for Fluorescence-like Narrow Emission in Deep Blue Thermally Activated Delayed Fluorescent Emitters. <i>Chemistry of Materials</i> , 2016 , 28, 5400-5405	9.6	102
392	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. <i>Chemical Communications</i> , 2016 , 52, 10032-5	5.8	16
391	Bis(phenylsulfone) as a strong electron acceptor of thermally activated delayed fluorescent emitters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31330-31336	3.6	7
390	Chemical Bond Stabilization and Exciton Management by CN Modified Host Material for Improved Efficiency and Lifetime in Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2016 , 4, 1281-1287	8.1	21
389	Spatially separated donor-acceptor design of host materials for independent control of photophysical properties and carrier transport properties. <i>Synthetic Metals</i> , 2016 , 215, 121-126	3.6	1
388	Molecular Engineering of High Efficiency and Long Lifetime Blue Thermally Activated Delayed Fluorescent Emitters for Vacuum and Solution Processed Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2016 , 4, 688-693	8.1	86
387	Molecular design of host materials for stable blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016 , 125, 274-281	4.6	12
386	High-triplet-energy host materials derived from directly-coupled carbazole-pyridoindole moieties. <i>Dyes and Pigments</i> , 2016 , 130, 183-190	4.6	5
385	Bipolar Host Materials for Organic Light-Emitting Diodes. <i>Chemical Record</i> , 2016 , 16, 159-72	6.6	54
384	A New Iridium(III) Complex as a Deep-Red Phosphorescent Emitter in Organic Light-Emitting Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2773-8	1.3	6
383	Molecular engineering of donor moiety of donor-acceptor structure for management of photophysical properties and device performances. <i>Dyes and Pigments</i> , 2016 , 128, 201-208	4.6	19
382	Triplet exciton recycling of a phosphorescent emitter by an up-conversion process using a delayed fluorescence type low triplet energy host material. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1606-1612	7.1	7
381	Correlation of Molecular Structure with Photophysical Properties and Device Performances of Thermally Activated Delayed Fluorescent Emitters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2485-2493	3.8	66
380	Molecular design of modifying 4-position of dibenzofuran for high temperature stability and high efficiency. <i>Dyes and Pigments</i> , 2016 , 128, 84-88	4.6	6

379	High triplet energy electron transport type exciton blocking materials for stable blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2016 , 32, 109-114	3.5	36
378	Improved efficiency of organic solar cells by transfer printing induced crystallization of active layer. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 366-368	6.3	5
377	Aggregation-induced emission type thermally activated delayed fluorescent materials for high efficiency in non-doped organic light-emitting diodes. <i>Organic Electronics</i> , 2016 , 29, 22-26	3.5	58
376	Molecular design of deep blue fluorescent emitters with 20% external quantum efficiency and narrow emission spectrum. <i>Organic Electronics</i> , 2016 , 29, 160-164	3.5	105
375	Synthesis of a dibenzothiophene/carboline/carbazole hybrid bipolar host material for green phosphorescent OLEDs. <i>Synthetic Metals</i> , 2016 , 213, 7-11	3.6	11
374	Recombination zone of blue thermally activated delayed fluorescent devices. <i>Journal of Luminescence</i> , 2016 , 169, 266-269	3.8	6
373	Highly efficient and color tunable thermally activated delayed fluorescent emitters using a "twin emitter" molecular design. <i>Chemical Communications</i> , 2016 , 52, 339-42	5.8	77
372	Design and fabrication of two-stack tandem-type all-phosphorescent white organic light-emitting diode for achieving high color rendering index and luminous efficacy. <i>Optics Express</i> , 2016 , 24, 24161-24168	3.3	12
371	Serotonin Transporter and COMT Polymorphisms as Independent Predictors of Health-related Quality of Life in Patients with Panic Disorder. <i>Journal of Korean Medical Science</i> , 2016 , 31, 757-63	4.7	2
370	Molecular Orbital Controlling Donor Moiety for High-Efficiency Thermally Activated Delayed Fluorescent Emitters. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 868-73	4.5	23
369	P-170: Synthesis and Device Performances of High Triplet Energy Electron Transport Materials. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1757-1759	0.5	0
368	Blue thermally activated delayed fluorescent emitters having a bicarbazole donor moiety. <i>RSC Advances</i> , 2016 , 6, 64133-64139	3.7	32
367	Acridine derived stable host material for long lifetime blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2016 , 34, 33-37	3.5	15
366	Alkyl free design of anthracene based host material for solution processed blue fluorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2016 , 217, 216-219	3.6	6
365	Phenylimidazole-based homoleptic iridium(III) compounds for blue phosphorescent organic light-emitting diodes with high efficiency and long lifetime. <i>Organic Electronics</i> , 2016 , 34, 91-96	3.5	32
364	Highly efficient exciplex organic light-emitting diodes using thermally activated delayed fluorescent emitters as donor and acceptor materials. <i>Nanotechnology</i> , 2016 , 27, 224001	3.4	20
363	Triplet emitter doped exciton harvesting layer for improved efficiency and long lifetime in blue phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2016 , 220, 573-577	3.6	5
362	Surface initiated oxidative crosslinking of a polymeric hole transport material for improved efficiency and lifetime in soluble organic light-emitting diodes. <i>Organic Electronics</i> , 2016 , 38, 278-282	3.5	3

361	Pyridoindole based intramolecular charge transfer type host material for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016 , 134, 285-290	4.6	5
360	Effect of End Groups on Mechanochromism and Electroluminescence in Tetraphenylethylene Substituted Phenanthroimidazoles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18487-18495	3.8	69
359	Correlation of doping concentration, charge transport of host, and lifetime of thermally activated delayed fluorescent devices. <i>Organic Electronics</i> , 2016 , 37, 252-256	3.5	8
358	Non-doped blue organic light emitting devices based on tetraphenylethylene-imidazole derivatives. <i>Organic Electronics</i> , 2016 , 37, 448-452	3.5	23
357	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. <i>Journal of Luminescence</i> , 2015 , 161, 271-274	3.8	9
356	The design of dual emitting cores for green thermally activated delayed fluorescent materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5201-4	16.4	167
355	Interlayer free hybrid white organic light-emitting diodes with red/blue phosphorescent emitters and a green thermally activated delayed fluorescent emitter. <i>Organic Electronics</i> , 2015 , 21, 100-105	3.5	12
354	Bicarbazole based donor-acceptor compound as a host for thermally activated delayed fluorescent emitter. <i>Synthetic Metals</i> , 2015 , 209, 19-23	3.6	8
353	High efficiency blue fluorescent organic light-emitting diodes using a conventional blue fluorescent emitter. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8834-8838	7.1	45
352	Effect of nitrogen position of carboline on the device performances of blue phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2015 , 209, 24-28	3.6	6
351	Effect of the molecular structure of the host materials on the lifetime of green thermally activated delayed fluorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8061-8065	7.1	21
350	Acridine modified dibenzothiophene derivatives as high triplet energy host materials for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015 , 122, 103-108	4.6	12
349	High efficiency fluorescent white organic light-emitting diodes having a yellow fluorescent emitter sensitized by a blue thermally activated delayed fluorescent emitter. <i>Organic Electronics</i> , 2015 , 23, 138-143	3.5	48
348	Carbazole-carboline core as a backbone structure of high triplet energy host materials. <i>Dyes and Pigments</i> , 2015 , 120, 258-264	4.6	15
347	Long lifetime blue phosphorescent organic light-emitting diodes with an exciton blocking layer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4640-4645	7.1	56
346	Pyridoindole modified carbazole compounds as high triplet energy host materials of imidazole derived blue triplet emitters for high quantum efficiency. <i>Organic Electronics</i> , 2015 , 22, 74-80	3.5	11
345	Blue phosphorescent organic light-emitting devices based on carbazole/thioxanthene-S,S-dioxide with a high glass transition temperature. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6192-6199	7.1	25
344	Fully flexible organic bistable light-emitting diodes with three level luminance switching. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 23, 179-181	6.3	5

343	Above 30% external quantum efficiency in green delayed fluorescent organic light-emitting diodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9625-9	9.5	195
342	Molecular design of triazine and carbazole based host materials for blue phosphorescent organic emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13553-8	3.6	19
341	Synthesis of dibenzothiophene-based host materials and their blue phosphorescent device performances. <i>Organic Electronics</i> , 2015 , 22, 92-97	3.5	12
340	Synthesis of dibenzothiophene-based host materials with a dimesitylborane substituent and their green PHOLED performances. <i>Dalton Transactions</i> , 2015 , 44, 8360-3	4.3	11
339	Benzofurocarbazole and benzothienocarbazole as donors for improved quantum efficiency in blue thermally activated delayed fluorescent devices. <i>Chemical Communications</i> , 2015 , 51, 8105-7	5.8	73
338	High Efficiency Exciplex Emitters Using Donor-Acceptor Type Acceptor Material. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22618-22624	3.8	34
337	Light emission mechanism of mixed host organic light-emitting diodes. <i>Applied Physics Letters</i> , 2015 , 106, 123306	3.4	38
336	Deep-blue phosphorescent iridium(III) dyes based on fluorine-functionalized bis(2,3?-bipyridyl) ligand for efficient organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015 , 123, 235-241	4.6	20
335	Four times lifetime improvement of blue phosphorescent organic light-emitting diodes by managing recombination zone. <i>Organic Electronics</i> , 2015 , 27, 202-206	3.5	29
334	High-power-efficiency hybrid white organic light-emitting diodes with a single emitting layer doped with blue delayed fluorescent and yellow phosphorescent emitters. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 365106	3	27
333	A strong hole transport type host material for high quantum efficiency blue phosphorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 32, 72-76	6.3	28
332	Improved efficiency and stable lifetime in blue phosphorescent organic light-emitting diodes using a stable exciton blocking layer. <i>Dyes and Pigments</i> , 2015 , 123, 254-256	4.6	10
331	Correlation of the molecular structure of host materials with lifetime and efficiency of blue phosphorescent organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 24468-74	3.6	14
330	Molecular design approach of increasing the triplet energy of host materials using pyrrole as a core structure. <i>RSC Advances</i> , 2015 , 5, 100378-100383	3.7	6
329	Phenothiazine dioxide based high triplet energy host materials for blue phosphorescent organic light-emitting diodes. <i>RSC Advances</i> , 2015 , 5, 97903-97909	3.7	16
328	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. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12107-12115	7.1	21
327	A zig-zag type bidibenzofuran based host material for green phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015 , 114, 278-282	4.6	5
326	Donor-Acceptor type material as a triplet host for high efficiency white phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2015 , 199, 105-109	3.6	8

325	Novel carbazole derivative as a host material for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015 , 114, 146-150	4.6	12
324	High triplet energy n-type dopants for high efficiency in phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2015 , 16, 34-39	3.5	4
323	Carboline modified dibenzofuran as a high triplet host material for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015 , 113, 743-747	4.6	11
322	A phosphine oxide-substituted double spirobifluorene compound with high thermal stability. <i>Journal of Information Display</i> , 2015 , 16, 105-109	4.1	15
321	20% External Quantum Efficiency in Solution-Processed Blue Thermally Activated Delayed Fluorescent Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 6786-6792	15.6	133
320	P-135: Recombination Zone Monitoring of the Blue Phosphorescent Organic Light-Emitting Diodes during Lifetime Test. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 1671-1673	0.5	
319	34.3: Emitting Materials for Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Using Benzofurocarbazole and Benzo[h]thienocarbazole as Donor Moieties. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 502-504	0.5	2
318	22.4: Synthesis of Host Materials for Blue Phosphorescent Organic Light Emitting Diodes (OLEDs) with High Efficiency and Low Driving Voltage. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 323-325	0.5	2
317	Host Engineering for High Quantum Efficiency Blue and White Fluorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2015 , 27, 4358-63	24	150
316	Design strategy for 25% external quantum efficiency in green and blue thermally activated delayed fluorescent devices. <i>Advanced Materials</i> , 2015 , 27, 5861-7	24	250
315	P-131: Synthesis and Device Application of a Dibenzothiophene Derivative as Thermally Activated Delayed Fluorescence Material for Green Fluorescence OLED. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 1658-1660	0.5	4
314	P-134: Synthesis of Host Material for Blue Phosphorescent Organic Light-Emitting Diodes Derived From Bicarbazole Backbone Structure. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 1668-1670	0.5	
313	Rational design of host materials for phosphorescent organic light-emitting diodes by modifying the 1-position of carbazole. <i>Chemical Communications</i> , 2015 , 51, 10672-5	5.8	30
312	Stable blue thermally activated delayed fluorescent organic light-emitting diodes with three times longer lifetime than phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2015 , 27, 2515-204	24	326
311	The Design of Dual Emitting Cores for Green Thermally Activated Delayed Fluorescent Materials. <i>Angewandte Chemie</i> , 2015 , 127, 5290-5293	3.6	32
310	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. <i>Dyes and Pigments</i> , 2015 , 121, 73-78	4.6	14
309	A thermally stable imidazole type ligand based Be complex as a triplet host material of green phosphorescent organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 24, 315-319	3.5	2
308	Direct monitoring of recombination zone shift during lifetime measurement of phosphorescent organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 32, 332-335	6.3	25

307	Cool and warm hybrid white organic light-emitting diode with blue delayed fluorescent emitter both as blue emitter and triplet host. <i>Scientific Reports</i> , 2015 , 5, 7859	4.9	119
306	Systematic control of photophysical properties of host materials for high quantum efficiency above 25% in green thermally activated delayed fluorescent devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2899-904	9.5	24
305	High efficiency thermally activated delayed fluorescent devices using a mixed host of carbazole and phosphine oxide derived host materials. <i>Synthetic Metals</i> , 2015 , 201, 49-53	3.6	12
304	Synthesis of pyrimidine-cored host materials bearing phenylcarbazole for efficient yellow phosphorescent devices: effect of linkage position. <i>RSC Advances</i> , 2015 , 5, 17030-17033	3.7	13
303	Structure-Property Relationship of Pyridoindole-Type Host Materials for High-Efficiency Blue Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2014 , 26, 1616-1621	9.6	60
302	High quantum efficiency and color stability in white phosphorescent organic light emitting diodes using a pyridine modified carbazole derivative. <i>Dyes and Pigments</i> , 2014 , 103, 34-38	4.6	13
301	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. <i>Advanced Functional Materials</i> , 2014 , 24, 4164-4169	15.6	116
300	Pyridine and carbazole modified biphenyl as a host for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2014 , 109, 1-5	4.6	7
299	A hole transport material with ortho- linked terphenyl core structure for high power efficiency in blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 399-404	3.5	15
298	Solvent effect on device performances of small molecule based solution processed blue phosphorescent organic light-emitting diodes using aromatic and alcohol solvents. <i>Journal of Luminescence</i> , 2014 , 146, 512-514	3.8	1
297	Carbazole modified terphenyl based high triplet energy host materials for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2014 , 101, 150-155	4.6	12
296	Above 20% External Quantum Efficiency in Thermally Activated Delayed Fluorescence Device Using Furodipyridine-Type Host Materials. <i>Chemistry of Materials</i> , 2014 , 26, 1413-1419	9.6	92
295	Thermally stable indoloacridine type host material for high efficiency blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 3773-3779	3.5	12
294	Synthesis of High-Triplet-Energy Host Polymer for Blue and White Electrophosphorescent Light-Emitting Diodes. <i>Macromolecules</i> , 2014 , 47, 7397-7406	5.5	25
293	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. <i>Dalton Transactions</i> , 2014 , 43, 7712-5	4.3	16
292	Fluorine-free blue phosphorescent emitters for efficient phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6040-6047	7.1	31
291	High triplet energy host materials for blue phosphorescent organic light-emitting diodes derived from carbazole modified orthophenylene. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7256	7.1	29
290	Synthesis and blue phosphorescent device performances of a new bipolar host material containing pyrazino[2,3-b]indole moiety. <i>RSC Advances</i> , 2014 , 4, 57679-57682	3.7	6

289	Phosphine oxide type bipolar host material for high quantum efficiency in thermally activated delayed fluorescent device. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8396-400	9.5	54
288	High efficiency yellowish green phosphorescent emitter derived from phenylbenzothienopyridine ligand. <i>Organic Electronics</i> , 2014 , 15, 2068-2072	3.5	7
287	High efficiency in a solution-processed thermally activated delayed-fluorescence device using a delayed-fluorescence emitting material with improved solubility. <i>Advanced Materials</i> , 2014 , 26, 6642-6	24	225
286	Engineering of interconnect position of bicarbazole for high external quantum efficiency in green and blue phosphorescent organic light-emitting diodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14874-80	9.5	51
285	Small molecule host materials for solution processed phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2014 , 26, 4218-33	24	320
284	Engineering of Mixed Host for High External Quantum Efficiency above 25% in Green Thermally Activated Delayed Fluorescence Device. <i>Advanced Functional Materials</i> , 2014 , 24, 3970-3977	15.6	188
283	High quantum efficiency in solution processed blue phosphorescent organic light-emitting diodes based on an asymmetric benzothienopyridine host. <i>Journal of Luminescence</i> , 2014 , 153, 317-320	3.8	2
282	High triplet energy Al complex as a host material for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 1071-1075	3.5	1
281	Organic materials for organic electronic devices. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 1198-1208	6.3	78
280	Carbazolyldibenzofuran-type high-triplet-energy bipolar host material for blue phosphorescent organic light-emitting diodes. <i>Journal of Luminescence</i> , 2014 , 146, 333-336	3.8	5
279	Euopyridine derivatives as host materials for solution processed blue phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2014 , 562, 608-611	2.2	1
278	High efficiency blue phosphorescent organic light-emitting diodes using 2-(1H-pyrazol-1-yl)pyridin-3-ol ligand based Be compound. <i>Dyes and Pigments</i> , 2014 , 101, 25-29	4.6	10
277	A universal host material for high external quantum efficiency close to 25% and long lifetime in green fluorescent and phosphorescent OLEDs. <i>Advanced Materials</i> , 2014 , 26, 4050-5	24	213
276	Synthesis of phenylcarbazole-biophene-based structural isomers as unipolar host materials for blue PHOLEDs and their device performance. <i>Organic Electronics</i> , 2014 , 15, 1413-1421	3.5	6
275	High external quantum efficiency in yellow and white phosphorescent organic light-emitting diodes using an indoloacridinefluorene type host material. <i>Organic Electronics</i> , 2014 , 15, 1843-1848	3.5	15
274	Above 20% external quantum efficiency in novel hybrid white organic light-emitting diodes having green thermally activated delayed fluorescent emitter. <i>Scientific Reports</i> , 2014 , 4, 6019	4.9	49
273	Beryllium-Based, High-Triplet-Energy Material as a Host for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Israel Journal of Chemistry</i> , 2014 , 54, 967-970	3.4	2
272	Mixed-host-emitting layer for high-efficiency organic light-emitting diodes. <i>Journal of Information Display</i> , 2014 , 15, 139-144	4.1	31

271	Correlation of charge trapping and charge transport properties of blue triplet emitters with device performances of blue phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2013 , 176, 47-50	3.6	5
270	Phosphorescent organic light-emitting diodes fabricated using iridium complexes with carbazole-based benzothiazole ligands. <i>Synthetic Metals</i> , 2013 , 178, 10-17	3.6	12
269	Carboline derivatives with an ortho-linked terphenyl core for high quantum efficiency in blue phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 9860-2	5.8	42
268	High triplet energy Zn complexes as host materials for green and blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2013 , 99, 374-377	4.6	17
267	Synthesis of 3-substituted carbazole derivative as a host material for deep blue phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2013 , 181, 18-22	3.6	5
266	Thermally stable carboline derivative as a host material for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 2687-2691	3.5	21
265	High quantum efficiency and color stability in white phosphorescent organic light-emitting diodes using carboline derivative as a host material. <i>Organic Electronics</i> , 2013 , 14, 3024-3029	3.5	8
264	High quantum efficiency blue phosphorescent organic light-emitting diodes using 6-position-modified benzofuro[2,3-b]pyridine derivatives. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2169-73	9.5	27
263	Deep blue phosphorescent organic light-emitting diodes with excellent external quantum efficiency. <i>Organic Electronics</i> , 2013 , 14, 3228-3233	3.5	25
262	Al Complex as a Host Material for High Efficiency Green Phosphorescent Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2013 , 130916070550009	3.8	
261	Benzo[4,5]thieno[2,3-b]pyridine derivatives as host materials for high efficiency green and blue phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 1446-8	5.8	51
260	Highly electron deficient pyrido[3,2-b]furo[2,3-b]pyridine as a core structure of a triplet host material for high efficiency green phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 6185-7	5.8	20
259	Simple heteroatom engineering for tuning the triplet energy of organometallic host materials for red, green and blue phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 3875-7	5.8	18
258	Synthesis of 2- and 4-substituted carbazole derivatives and correlation of substitution position with photophysical properties and device performances of host materials. <i>Organic Electronics</i> , 2013 , 14, 67-73	3.5	18
257	The effect of the substitution position of dibenzofuran on the photophysical and charge-transport properties of host materials for phosphorescent organic light-emitting diodes. <i>Chemistry - A European Journal</i> , 2013 , 19, 1194-8	4.8	27
256	An indole derivative as a high triplet energy hole transport material for blue phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2013 , 548, 603-607	2.2	5
255	Solution processed phosphorescent white organic light emitting diodes using a small molecule host material. <i>Journal of Luminescence</i> , 2013 , 143, 432-435	3.8	1
254	Improved power efficiency in blue phosphorescent organic light-emitting diodes using diphenylmethyl linkage based high triplet energy hole transport materials. <i>Organic Electronics</i> , 2013 , 14, 370-377	3.5	9

253	Fabrication and luminance switching of flexible organic bistable light-emitting diodes on flexible substrate. <i>Journal of Luminescence</i> , 2013 , 137, 105-108	3.8	5
252	Low driving voltage and high power efficiency in blue phosphorescent organic light-emitting diodes using aromatic amine derivatives with diphenylsilyl linkage. <i>Synthetic Metals</i> , 2013 , 167, 1-4	3.6	5
251	A thermally stable bipolar host material for blue phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2013 , 172, 1-4	3.6	3
250	Synthesis and device application of 3- position modified benzothieno[3,2-c]pyridine derivative. <i>Dyes and Pigments</i> , 2013 , 99, 390-394	4.6	1
249	Diphenylmethyl linked high-triplet-energy material as a host for deep-blue phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2013 , 531, 541-544	2.2	2
248	High color rendering index in phosphorescent white organic light-emitting diodes using a yellowish-green dopant with broad light emission. <i>Organic Electronics</i> , 2013 , 14, 1504-1509	3.5	18
247	High quantum efficiency in blue phosphorescent organic light emitting diodes using ortho-substituted high triplet energy host materials. <i>Organic Electronics</i> , 2013 , 14, 1602-1607	3.5	9
246	9-(Pyridin-3-yl)-9H-carbazole derivatives as host materials for green phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 1291-1296	3.5	12
245	A diphenyl ether bridged, high triplet energy host material for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2013 , 98, 372-376	4.6	13
244	Synthesis and device application of hybrid host materials of carbazole and benzofuran for high efficiency solution processed blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 1009-1014	3.5	33
243	Effect of the position of nitrogen in pyridoindole on photophysical properties and device performances of π - π Carboline based high triplet energy host materials for deep blue devices. <i>Chemical Communications</i> , 2013 , 49, 5948-50	5.8	67
242	High Efficiency Green and Blue Phosphorescent Organic Light-Emitting Diodes Using Pyrroloacridine Type Hole Transport Material. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 584, 145-152	0.5	1
241	Polymer bulk heterojunction photovoltaics employing a squaraine donor additive. <i>Organic Electronics</i> , 2013 , 14, 1081-1085	3.5	29
240	Dependence of hole and electron current density of mixed host devices on mixed host composition. <i>Journal of Luminescence</i> , 2013 , 138, 150-152	3.8	
239	P.145L: Late-News Poster: Synthesis and Device Application of Carboline Derivatives as High Triplet Energy Materials for Blue Phosphorescent OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 1483-1485	0.5	
238	High quantum efficiency in solution and vacuum processed blue phosphorescent organic light emitting diodes using a novel benzofuopyridine-based bipolar host material. <i>Advanced Materials</i> , 2013 , 25, 596-600	24	121
237	Polymer photovoltaic cells with a graded active region achieved using double stamp transfer printing. <i>Applied Physics Letters</i> , 2013 , 103, 193301	3-4	4
236	Above 30% external quantum efficiency in blue phosphorescent organic light-emitting diodes using pyrido[2,3-b]indole derivatives as host materials. <i>Advanced Materials</i> , 2013 , 25, 5450-4	24	359

235	Effect of blue doping concentration on the light emission of two-color phosphorescent white organic light emitting diodes. <i>Thin Solid Films</i> , 2012 , 520, 3675-3678	2.2	2
234	Highly efficient white phosphorescent organic light emitting diodes using a mixed host structure in deep blue emitting layer. <i>Thin Solid Films</i> , 2012 , 520, 5075-5079	2.2	2
233	Engineering of charge transport materials for universal low optimum doping concentration in phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 341-349	3.5	24
232	Synthesis of an aromatic amine derivative with novel double spirobifluorene core and its application as a hole transport material. <i>Organic Electronics</i> , 2012 , 13, 351-355	3.5	20
231	Cyclopenta[def]fluorene based high triplet energy hole transport material for blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 1044-1048	3.5	5
230	Dibenzofuran derivative as high triplet energy host material for high efficiency in deep blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 1141-1145	3.5	18
229	Improved power efficiency in deep blue phosphorescent organic light-emitting diodes using an acridine core based hole transport material. <i>Organic Electronics</i> , 2012 , 13, 1245-1249	3.5	16
228	Simplified p-i-n organic light-emitting diodes using an universal ambipolar material. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 309-311	6.3	11
227	Improved efficiency of inverted organic solar cells using organic hole collecting interlayer. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 661-663	6.3	6
226	High efficiency deep blue phosphorescent organic light-emitting diodes using a tetraphenylsilane based phosphine oxide host material. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 1029-1032	6.3	21
225	Improved lifetime in organic solar cells using a bilayer cathode of organic interlayer/Al. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 160-165	6.4	23
224	Thermally stable aromatic amine derivative with symmetrically substituted double spirobifluorene core as a hole transport material for green phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2012 , 522, 415-419	2.2	13
223	High color rendering white organic light-emitting diodes fabricated using a broad-bandwidth red phosphorescent emitter for lighting applications. <i>Synthetic Metals</i> , 2012 , 162, 2414-2420	3.6	8
222	Solution processed multilayer deep blue and white phosphorescent organic light-emitting diodes using an alcohol soluble bipolar host and phosphorescent dopant materials. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14546		26
221	Fluorenobenzofuran as the core structure of high triplet energy host materials for green phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10537		22
220	Fused indole derivatives as high triplet energy hole transport materials for deep blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3099		29
219	Lifetime study of single layer and stacked white organic light-emitting diodes. <i>Synthetic Metals</i> , 2012 , 161, 2677-2681	3.6	5
218	High external quantum efficiency in deep blue phosphorescent organic light emitting diodes using a simple device structure. <i>Thin Solid Films</i> , 2012 , 520, 7022-7025	2.2	2

217	Synthesis, photophysical and electro-optical properties of bis-carbazolyl methane based host material for pure-blue phosphorescent OLED. <i>Journal of Luminescence</i> , 2012 , 132, 2557-2560	3.8	7
216	57.3: Invited Paper: Host and Charge Transport Materials for High Efficiency Deep Blue Phosphorescent Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 778-779	0.5	
215	tert-Butylated spirofluorene derivatives with arylamine groups for highly efficient blue organic light emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5145		41
214	Hybrid white organic light-emitting diodes of small molecule and polymer emitters. <i>Synthetic Metals</i> , 2012 , 162, 1594-1597	3.6	5
213	Synthesis and their device performance of solution processable host materials based on carbazole derivatives. <i>Synthetic Metals</i> , 2012 , 162, 1828-1833	3.6	4
212	Synthesis and photophysical properties of host materials with high triplet energy based on dibenzofuran and triphenylamine functionalities. <i>Synthetic Metals</i> , 2012 , 162, 2059-2062	3.6	3
211	High power efficiency in blue phosphorescent organic light-emitting diodes using 2,4-substituted dibenzofuran with a carbazole and a diphenylphosphine oxide. <i>Organic Electronics</i> , 2012 , 13, 2589-2593	3.5	7
210	Comparison of symmetric and asymmetric bipolar type high triplet energy host materials for deep blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7239		64
209	Phosphine oxide derivatives for organic light emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4233-4243		142
208	Indenofluorene-Based Blue Fluorescent Compounds and Their Application in Highly Efficient Organic Light-Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 2748-2755	3.2	23
207	Organic materials for deep blue phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2012 , 24, 3169-90	24	513
206	Pyridine-modified acridine-based bipolar host material for green phosphorescent organic light-emitting diodes. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 899-902	4.5	10
205	N,N-Diphenylpyridin-4-amine as a bipolar core structure of high-triplet-energy host materials for blue phosphorescent organic light-emitting diodes. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2203-7	4.5	2
204	Comparison of tetraphenylmethane and tetraphenylsilane as core structures of high-triplet-energy hole- and electron-transport materials. <i>Chemistry - A European Journal</i> , 2012 , 18, 6457-61	4.8	15
203	Multi-stacked organic light-emitting diodes using zinc oxide nanoparticle interfacial layers. <i>Current Applied Physics</i> , 2012 , 12, 1378-1380	2.6	5
202	Solution Processed p-Doped Hole Transport Layer for Polymer Light-Emitting Diodes. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, J11		1
201	High efficiency simple white phosphorescent organic light-emitting diodes using a phosphine oxide host. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1216-9	1.3	
200	Effect of Polarity of Small Molecule Interlayer Materials on the Open Circuit Voltage and Power Conversion Efficiency of Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18789-18794	3.8	14

199	Dibenzothiophene derivatives as host materials for high efficiency in deep blue phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14604		82
198	Correlation of the substitution position of diphenylphosphine oxide on phenylcarbazole and device performances of blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5638		41
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196	Synthesis of titania embedded silica hollow nanospheres via sonication mediated etching and re-deposition. <i>Chemical Communications</i> , 2011 , 47, 7092-4	5.8	31
195	Organic interlayer for high power efficiency in organic light-emitting diodes. <i>Synthetic Metals</i> , 2011 , 161, 40-43	3.6	8
194	Highly efficient blue light-emitting diodes containing spirofluorene derivatives end-capped with triphenylamine/phenylcarbazole. <i>Synthetic Metals</i> , 2011 , 161, 2024-2030	3.6	14
193	Tetraphenylsilane-Based High Triplet Energy Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10272-10276	3.8	36
192	White organic light-emitting devices utilizing a mixed color-conversion phosphor layer consisting of CaAl ₁₂ O ₁₉ :Mn and Zn ₂ SiO ₄ :Mn. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1770-3	1.3	5
191	High power efficiency in single layer blue phosphorescent organic light-emitting diodes. <i>Journal of Luminescence</i> , 2011 , 131, 2788-2791	3.8	11
190	High efficiency in solution processed blue phosphorescent organic light-emitting diodes using an alcohol soluble emitting layer. <i>Organic Electronics</i> , 2011 , 12, 1595-1599	3.5	16
189	Solution processed deep blue phosphorescent organic light-emitting diodes with over 20% external quantum efficiency. <i>Organic Electronics</i> , 2011 , 12, 1711-1715	3.5	56
188	Above 20% external quantum efficiency in green and white phosphorescent organic light-emitting diodes using an electron transport type green host material. <i>Organic Electronics</i> , 2011 , 12, 1893-1898	3.5	11
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185	Relationship between the particle size of quantum dots and bistability of the quantum dot embedded organic memory devices. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 105-108	6.3	4
184	External quantum efficiency above 20% in deep blue phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2011 , 23, 1436-41	24	368
183	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. <i>Advanced Materials</i> , 2011 , 23, 4568-72	24	84
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181	Highly efficient blue organic light-emitting diodes based on 2-(diphenylamino)fluoren-7-ylvinylarene derivatives that bear a tert-butyl group. <i>Chemistry - A European Journal</i> , 2011 , 17, 12994-3006	4.8	27
180	Modified N,N-dicarbazolyl-3,5-benzene as a high triplet energy host material for deep-blue phosphorescent organic light-emitting diodes. <i>Chemistry - A European Journal</i> , 2011 , 17, 11415-8	4.8	49
179	Luminance Control of Organic Light-Emitting Diodes Using an Organic Bistable Memory Device. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 551, 54-59	0.5	2
178	Simplified white phosphorescent organic light-emitting diodes without any charge transport layer. <i>Current Applied Physics</i> , 2011 , 11, 865-868	2.6	2
177	Solution processed white phosphorescent organic light-emitting diodes with a double layer emitting structure. <i>Organic Electronics</i> , 2011 , 12, 291-294	3.5	12
176	Multilevel luminance control in solution processed tandem organic multistable light-emitting diode fabricated by a stamp transfer printing method. <i>Organic Electronics</i> , 2011 , 12, 725-730	3.5	6
175	Solution processed high efficiency blue and white phosphorescent organic light-emitting diodes using a high triplet energy exciton blocking layer. <i>Organic Electronics</i> , 2011 , 12, 1293-1297	3.5	23
174	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. <i>Organic Electronics</i> , 2011 , 12, 1459-1464	3.5	20
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172	Synthesis and device performances of phenothiazine based red phosphorescent host materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 575-579	6.3	4
171	Effect of the interlayer composition on the lifetime and color change of hybrid white organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 642-644	6.3	10
170	High efficiency blue phosphorescent organic light-emitting diodes without electron transport layer. <i>Journal of Luminescence</i> , 2011 , 131, 1621-1624	3.8	1
169	Effect of gamma irradiation on nutrient digestibility in SPF mini-pig. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 123-124	2.5	2
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167	The relationship between the host structure and optimum doping concentration in red phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2011 , 519, 4342-4346	2.2	
166	Thermally stable triphenylene-based hole-transporting materials for organic light-emitting devices. <i>Thin Solid Films</i> , 2011 , 519, 5917-5923	2.2	7
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164	Mechanism for the direct electron injection from Al cathode to the phosphine oxide type electron transport layer. <i>Applied Physics Letters</i> , 2011 , 98, 073306	3.4	5

163	Efficiency Improvement of Solution Processed Blue Phosphorescent Organic Light-Emitting Diodes Using an Alcohol Soluble Exciton Blocking Layer. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, H33		3
162	Thermally Stable Organic Solar Cells Using Small Molecule Exciton Blocking Layer. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, B59		6
161	Vertical orientation of copper phthalocyanine in organic solar cells using a small molecular weight organic templating layer. <i>Applied Physics Letters</i> , 2011 , 99, 043308	3.4	25
160	Improved Device Performances of Organic Solar Cells with Au Cathode Using a Phosphine Sulfide Type Cathode Modification Layer. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, B93		
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157	Efficient Inverted Top-Emitting Organic Light Emitting Diodes with Transparent and Surface-Modified Multilayer Anodes. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, J43		4
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151	Thermally stable fluorescent blue organic light-emitting diodes using spirobifluorene based anthracene host materials with different substitution position. <i>Synthetic Metals</i> , 2010 , 160, 1184-1188	3.6	16
150	Bistability and improved hole injection in organic bistable light-emitting diodes using a quantum dot embedded hole transport layer. <i>Synthetic Metals</i> , 2010 , 160, 1216-1218	3.6	4
149	Efficiency Improvement of Solution Processed Blue Phosphorescent Devices Using High Triplet Energy Electron Transport Layer. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, J122		12
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143	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. <i>Advanced Materials</i> , 2010 , 22, 4479-83	24	123
142	Recombination zone study of phosphorescent organic light-emitting diodes with triplet mixed host emitting structure. <i>Journal of Industrial and Engineering Chemistry</i> , 2010 , 16, 181-184	6.3	31
141	Origin of bistable memory characteristics of organic light-emitting diodes with LiF/Al cathode. <i>Journal of Industrial and Engineering Chemistry</i> , 2010 , 16, 230-232	6.3	13
140	Lifetime study of red phosphorescent organic light-emitting diodes with a double doping structure. <i>Journal of Industrial and Engineering Chemistry</i> , 2010 , 16, 813-815	6.3	15
139	Effect of host and interlayer structures on device performances of hybrid white organic light-emitting diodes. <i>Journal of Luminescence</i> , 2010 , 130, 1211-1215	3.8	4
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136	Stable efficiency roll-off in red phosphorescent organic light-emitting diodes using a spirofluoreneBenzofluorene based carbazole type host material. <i>Journal of Luminescence</i> , 2010 , 130, 2184-2187	3.8	10
135	An ethylcarbazole based phosphine oxide derivative as a host for deep blue phosphorescent organic light-emitting diode. <i>Journal of Luminescence</i> , 2010 , 130, 2238-2241	3.8	2
134	Red phosphorescent organic light-emitting diodes with indium tin oxide/single organic layer/Al simple device structure. <i>Organic Electronics</i> , 2010 , 11, 36-40	3.5	22
133	Small molecule based mixed interlayer for color control of solution processed multilayer white polymer light-emitting diodes. <i>Organic Electronics</i> , 2010 , 11, 184-187	3.5	11
132	High power efficiency in simplified two layer blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2010 , 11, 1154-1157	3.5	28
131	Theoretical maximum quantum efficiency in red phosphorescent organic light-emitting diodes at a low doping concentration using a spirobenzofluorene type triplet host material. <i>Organic Electronics</i> , 2010 , 11, 881-886	3.5	51
130	The relationship between the substitution position of the diphenylphosphine oxide on the spirobifluorene and device performances of blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2010 , 11, 1059-1065	3.5	49
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128	A high triplet energy phosphine oxide derivative as a host and exciton blocking material for blue phosphorescent organic light-emitting diodes. <i>Thin Solid Films</i> , 2010 , 518, 3716-3720	2.2	22

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124	High quantum efficiency in simple blue phosphorescent organic light-emitting diodes without any electron injection layer. <i>Thin Solid Films</i> , 2010 , 519, 906-910	2.2	28
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120	Color control of multilayer stacked white polymer light-emitting diodes using a quantum dot as an interlayer. <i>Applied Physics Letters</i> , 2009 , 94, 093303	3.4	13
119	High efficiency blue phosphorescent organic light emitting diodes using a simple device structure. <i>Applied Physics Letters</i> , 2009 , 94, 013301	3.4	72
118	Effect of Plasma Treatment of ITO Electrode on the Characteristics of Green OLEDs with Alq3-C545T Emissive Layer. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 498, 274-283	0.5	2
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116	Host Engineering for High Efficiency in Phosphorescent White Organic Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 514, 140/[470]-146/[476]	0.5	
115	Multilayer stacked white polymer light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 105115	3.15	9
114	Origin of colour stability in blue/orange/blue stacked phosphorescent white organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015104	3	2
113	Simple high efficiency red phosphorescent organic light-emitting diodes without LiF electron injection layer. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 225103	3	10
112	Phenylcarbazole-Based Phosphine Oxide Host Materials For High Efficiency In Deep Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2009 , 19, 3644-3649	15.6	179
111	Correlation between host material compositions and performances in organic white-light-emitting diodes with blue/orange/blue emitting stacked structure. <i>Sensors and Actuators A: Physical</i> , 2009 , 149, 208-212	3.9	1
110	Correlation of recombination zone and device performances of phosphorescent white organic light-emitting diodes. <i>Thin Solid Films</i> , 2009 , 517, 4464-4467	2.2	5

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107	High efficiency deep blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2009 , 10, 170-173	3.5	63
106	Improved device performances in polymer light-emitting diodes using a stamp transfer printing process. <i>Organic Electronics</i> , 2009 , 10, 372-375	3.5	14
105	Highly efficient pure white phosphorescent organic light-emitting diodes using a deep blue phosphorescent emitting material. <i>Organic Electronics</i> , 2009 , 10, 681-685	3.5	30
104	Improved efficiency in solution processed green phosphorescent organic light-emitting diodes using a double layer emitting structure fabricated by a stamp transfer printing process. <i>Organic Electronics</i> , 2009 , 10, 978-981	3.5	8
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101	Color stability and suppressed efficiency roll-off in white organic light-emitting diodes through management of interlayer and host properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2009 , 15, 420-422	6.3	36
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99	White organic light-emitting diodes using a quantum dot as a color changing material. <i>Journal of Industrial and Engineering Chemistry</i> , 2009 , 15, 602-604	6.3	15
98	Efficiency improvement of red organic light-emitting diodes using a blue phosphorescent exciton blocking layer. <i>Journal of Luminescence</i> , 2009 , 129, 300-302	3.8	2
97	Control of device performances of phosphorescent white organic light-emitting diodes by managing charge transport properties of host materials. <i>Journal of Luminescence</i> , 2009 , 129, 389-392	3.8	4
96	Low driving voltage in white organic light-emitting diodes using an interfacial energy barrier free multilayer emitting structure. <i>Journal of Luminescence</i> , 2009 , 129, 937-940	3.8	4
95	Fabrication of high efficiency and color stable white organic light-emitting diodes by an alignment free mask patterning. <i>Organic Electronics</i> , 2009 , 10, 384-387	3.5	11
94	High efficiency red phosphorescent organic light-emitting diodes using a spirobenzofluorene type phosphine oxide as a host material. <i>Organic Electronics</i> , 2009 , 10, 998-1000	3.5	21
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91	Stable efficiency roll-off in blue phosphorescent organic light-emitting diodes by host layer engineering. <i>Organic Electronics</i> , 2009 , 10, 1529-1533	3.5	85
90	Improved efficiency in organic solar cells through fluorinated interlayer induced crystallization. <i>Organic Electronics</i> , 2009 , 10, 1583-1589	3.5	11
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