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## Development of high performance OLEDs for general lighting

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#	Paper	IF	Citations
579	Polymorph, assembly, luminescence and semiconductor properties of a quinacridone derivative with extended $\pi$ -conjugated framework. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5548	7.1	26
578	Systematic color tuning of a family of luminescent azole-based organoboron compounds suitable for OLED applications. <b>2013</b> , 42, 15120-32		20
577	A bipolar host containing carbazole/dibenzothiophene for efficient solution-processed blue and white phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6835	7.1	41
576	Investigation on spacers and structures: A simple but effective approach toward high-performance hybrid white organic light emitting diodes. <b>2013</b> , 184, 5-9		15
575	Recent Progress in Phosphorescent Organic Light-Emitting Devices. <b>2013</b> , 2013, 7653-7663		205
574	Simple bipolar host materials incorporating CN group for highly efficient blue electrophosphorescence with slow efficiency roll-off. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 8140	7.1	74
573	Interfacial triplet confinement for achieving efficient solution-processed deep-blue and white electrophosphorescent devices with underestimated poly(N-vinylcarbazole) as the host. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4933	7.1	32
572	Full-colour luminescent compounds based on anthracene and 2,2'-dipyridylamine. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7409	7.1	24
571	Mechanoluminescent and efficient white OLEDs for Pt(II) phosphors bearing spatially encumbered pyridinyl pyrazolate chelates. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7582	7.1	73
570	meta-Linked spirobifluorene/phosphine oxide hybrids as host materials for deep blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , <b>2013</b> , 14, 1924-1930	3.5	42
569	Comprehensive Study on the Electron Transport Layer in Blue Fluorescent Organic Light-Emitting Diodes. <b>2013</b> , 2, R258-R261		23
568	Stacked inverted top-emitting white organic light-emitting diodes composed of orange and blue light-emitting units. <b>2013</b> , 103, 193303		6
567	High-Performance Hybrid White Organic Light-Emitting Diodes Comprising Ultrathin Blue and Orange Emissive Layers. <b>2013</b> , 6, 122101		17
566	Development of Phenylpyridine-Containing Wide-Energy-Gap Electron-Transporters for High Performance OLEDs. <b>2013</b> , 70, 360-369		
565	Balancing high gain and bandwidth in multilayer organic photodetectors with tailored carrier blocking layers. <b>2014</b> , 116, 214501		16
564	Regulating charges and excitons in simplified hybrid white organic light-emitting diodes: The key role of concentration in single dopant host-guest systems. <i>Organic Electronics</i> , <b>2014</b> , 15, 2616-2623	3.5	30
563	The dynamic behavior of thin-film ionic transition metal complex-based light-emitting electrochemical cells. <b>2014</b> , 116, 104504		26

562	In Situ Observation of Degradation by Ligand Substitution in Small-Molecule Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6578-6584	9.6	25
561	High performance flexible top-emitting warm-white organic light-emitting devices and chromaticity shift mechanism. <b>2014</b> , 4, 047110		6
560	Phosphorescent C <sup>2</sup> C* Cyclometalated Pt(II) Dibenzofuranyl-NHC Complexes [An Auxiliary Ligand Study. <b>2014</b> , 2014, 256-264		41
559	Anthraquinone-based intramolecular charge-transfer compounds: computational molecular design, thermally activated delayed fluorescence, and highly efficient red electroluminescence. <b>2014</b> , 136, 18070-81		628
558	Investigation and optimization of each organic layer: A simple but effective approach towards achieving high-efficiency hybrid white organic light-emitting diodes. <i>Organic Electronics</i> , <b>2014</b> , 15, 926-936		35
557	Bright Blue and White Electrophosphorescent Triarylboron-Functionalized C <sup>2</sup> N-Chelate Pt(II) Compounds: Impact of Intramolecular Hydrogen Bonds and Ancillary Ligands. <b>2014</b> , 24, 1911-1927		70
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551	A carbazole- $\beta$ -diazole diad molecule for single-emitting-component white organic light-emitting devices (WOLEDs). <b>2014</b> , 70, 2015-2019		23
550	Optical and charge transport properties of N-butyl-1,8-naphthalimide derivatives as organic light-emitting materials: A theoretical study. <b>2014</b> , 149, 125-132		26
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543	Triplet-Energy Control of Polycyclic Aromatic Hydrocarbons by BN Replacement: Development of Ambipolar Host Materials for Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6265-6271	9.6	103
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535	Improved host material for electrophosphorescence by positional engineering of spirobifluorene-carbazole hybrids. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8736-8744	7.1	20
534	Highly efficient orange and deep-red organic light emitting diodes with long operational lifetimes using carbazole-quinoline based bipolar host materials. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6183-6191	7.1	74
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463	Efficient piezochromic luminescence from tetraphenylethene functionalized pyridine-azole derivatives exhibiting aggregation-induced emission. <i>Dyes and Pigments</i> , <b>2015</b> , 119, 62-69	4.6	21
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429	High-performance doping-free hybrid white organic light-emitting diodes: The exploitation of ultrathin emitting nanolayers (. <b>2016</b> , 26, 26-36			84
428	Dimesitylarylborane-based luminescent emitters exhibiting highly-efficient thermally activated delayed fluorescence for organic light-emitting diodes. <i>Organic Electronics</i> , <b>2016</b> , 34, 208-217	3.5		60
427	Extremely high-efficiency and ultrasimplified hybrid white organic light-emitting diodes exploiting double multifunctional blue emitting layers. <b>2016</b> , 5, e16137			94
426	Outcoupling efficiency optimization of phosphorescent and fluorescent based hybrid red, green and blue emitting OLED devices. <b>2016</b> , 14, 1600123			
425	Temperature and Exciton Concentration Induced Excimer Emission of 4,4'-Bis(4''-Triphenylsilyl) Phenyl-1,1'-Binaphthalene and Application for Sunlight-Like White Organic Light-Emitting Diodes. <b>2016</b> , 11, 379			4
424	A series of pyrimidine based blue to green thermally activated delayed fluorescent emitters realizing a high EQE of 25%. <b>2016</b> ,			
423	High efficiency and simplified white organic light-emitting diode based on a single-host emission layer. <b>2016</b> , 220, 329-333			4
422	Cyanopyridine Based Bipolar Host Materials for Green Electrophosphorescence with Extremely Low Turn-On Voltages and High Power Efficiencies. <b>2016</b> , 8, 21497-504			41
421	Self-assembly of a white-light emitting polymer with aggregation induced emission enhancement using simplified derivatives of tetraphenylethylene. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8027-8040 <sup>7.1</sup>			20
420	Highly Efficient and Stable Hybrid White Organic Light Emitting Diodes with Controllable Exciton Behavior by a Mixed Bipolar Interlayer. <b>2016</b> , 33, 077801			
419	Novel molecular host materials based on carbazole/PO hybrids with wide bandgap via unique linkages for solution-processed blue phosphorescent OLEDs. <i>Optical Materials</i> , <b>2016</b> , 60, 244-251	3.3		6

418	Bottom-Up Synthesis of MeSx Nanodots for Optoelectronic Device Applications. <b>2016</b> , 4, 1796-1804		23
417	Fundamental functions of peripheral and core pyridine rings in a series of bis-terpyridine derivatives for high-performance organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8980-8988	7.1	23
416	Adjusting Nitrogen Atom Orientations of Pyridine Ring in Tetraphenylsilane-Based Hosts for Highly Efficient Blue Phosphorescent Organic Light-Emitting Devices. <b>2016</b> , 8, 24793-802		30
415	Patterned Growth of Organic Semiconductors: Selective Nucleation of Perylene on Self-Assembled Monolayers. <b>2016</b> , 32, 8019-28		9
414	Effect of substituents in a series of carbazole-based host-materials toward high-efficiency carbene-based blue OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9476-9481	7.1	15
413	Solution-processable bipolar S,S-dioxide-dibenzothiophene chromophores for single-layer organic light-emitting diodes. <b>2016</b> , 40, 7741-7749		1
412	Solution-Processed Double-Layer Electron-Transport Layer for Conventional Blue Phosphorescent Organic Light-Emitting Diodes. <b>2016</b> , 4, 1635-1641		13
411	Dinuclear cyclometalated platinum(ii) complexes containing a deep blue fluorescence chromophore: synthesis, photophysics and application in single dopant white PLEDs. <b>2016</b> , 45, 14131-40		7
410	Face-to-Face Packing of 2,3,9,10-Tetrasubstituted Pentacene Derivatives Revealed through a Solid State [4 + 4] Thermal Cycloaddition and Molecular Dynamic Simulation. <b>2016</b> , 81, 6223-34		5
409	Near-infrared roll-off-free electroluminescence from highly stable diketopyrrolopyrrole light emitting diodes. <b>2016</b> , 6, 34096		33
408	Toward Scalable Flexible Nanomanufacturing for Photonic Structures and Devices. <b>2016</b> , 28, 10353-10380		54
407	Efficient white phosphorescent organic light-emitting diodes consisting of orange ultrathin and blue mixed host emission layers. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 335101	3	8
406	Microporous Lanthanide Metal-Organic Frameworks with Multiple 1D Channels: Tunable Colors, White-Light Emission, and Luminescent Sensing for Iron(II) and Iron(III). <b>2016</b> , 81, 798-803		25
405	Effects of Sulfur Oxidation on the Electronic and Charge Transport Properties of Fused Oligothiophene Derivatives. <b>2016</b> , 120, 14484-14494		10
404	Excellent deep-blue emitting materials based on anthracene derivatives for non-doped organic light-emitting diodes. <i>Optical Materials</i> , <b>2016</b> , 58, 260-267	3.3	16
403	A light emission textile device: conformal spray-sintering of a woven fabric electrode. <b>2016</b> , 1, 025004		36
402	High-efficiency and superior color-stability white phosphorescent organic light-emitting diodes based on double mixed-host emission layers. <i>Organic Electronics</i> , <b>2016</b> , 31, 136-141	3.5	15
401	Enhancing the photoluminescence quantum yields of blue-emitting cationic iridium(III) complexes bearing bisphosphine ligands. <b>2016</b> , 3, 218-235		42

390	Fluoranthene derivatives as blue fluorescent materials for non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 193-200	7.1	27
399	Optimization of Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanolaminate thin films prepared with different oxide ratios, for use in organic light-emitting diode encapsulation, via plasma-enhanced atomic layer deposition. <b>2016</b> , 18, 1042-9		35
398	A novel high-efficiency white hyperbranched polymer derived from polyfluorene with green and red iridium(III) complexes as the cores. <i>Dyes and Pigments</i> , <b>2016</b> , 130, 191-201	4.6	8
397	A series of short axially symmetrically 1,3,6,8-tetrasubstituted pyrene-based green and blue emitters with 4-tert-butylphenyl and arylamine attachments. <i>Dyes and Pigments</i> , <b>2016</b> , 130, 106-115	4.6	36
396	Tunable luminescence and white light emission of mixed lanthanide-organic frameworks based on polycarboxylate ligands. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3364-3374	7.1	99
395	Photo-Cross-Linkable Polymeric Optoelectronics Based on the [2 + 2] Cycloaddition Reaction of Cinnamic Acid. <b>2016</b> , 49, 1518-1522		12
394	Pure white-light and colour-tuning of Eu(3+)-Gd(3+)-containing metallopolymer. <b>2016</b> , 52, 3713-6		48
393	From Mononuclear to Dinuclear Iridium(III) Complex: Effective Tuning of the Optoelectronic Characteristics for Organic Light-Emitting Diodes. <b>2016</b> , 55, 1720-7		114
392	Solubilised bright blue-emitting iridium complexes for solution processed OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3726-3737	7.1	61
391	A novel bipolar phenanthroimidazole derivative host material for highly efficient green and orange-red phosphorescent OLEDs with low efficiency roll-off at high brightness. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2003-2010	7.1	83
390	Selectively Modulating Triplet Exciton Formation in Host Materials for Highly Efficient Blue Electrophosphorescence. <b>2016</b> , 8, 7274-82		22
389	A series of fluorinated phenylpyridine-based electron-transporters for blue phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1104-1110	7.1	27
388	Light-blue thermally activated delayed fluorescent emitters realizing a high external quantum efficiency of 25% and unprecedented low drive voltages in OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2274-2278	7.1	132
387	Flexible light-emitting electrochemical cells with single-walled carbon nanotube anodes. <i>Organic Electronics</i> , <b>2016</b> , 30, 36-39	3.5	17
386	Polyethers with pendent phenylvinyl substituted carbazole rings as polymers for hole transporting layers of OLEDs. <i>Optical Materials</i> , <b>2016</b> , 51, 148-153	3.3	4
385	Understanding and predicting the orientation of heteroleptic phosphors in organic light-emitting materials. <b>2016</b> , 15, 85-91		181
384	White Organic Light Emitting Diodes with a Random Scattering Layer for an Internal Light Extraction. <b>2016</b> , 5, R3126-R3130		4
383	(NH <sub>4</sub> ) <sub>2</sub> WS <sub>4</sub> precursor as a hole-injection layer in organic optoelectronic devices. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 285-293	14.7	13

382	Highly efficient, deep-red organic light-emitting devices using energy transfer from exciplexes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 527-530	7.1	58
381	Rationally Designed Blue Triplet Emitting Gold(III) Complexes Based on a Phenylpyridine-Derived Framework. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 3837-3849	4.8	16
380	para-Selective Alkylation of Sulfonylarenes by Cooperative Nickel/Aluminum Catalysis. <b>2017</b> , 19, 584-587		59
379	Probing photophysical properties of isomeric N-heterocyclic carbene Ir(III) complexes and their applications to deep-blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1651-1659	7.1	23
378	Manipulating the Electronic Excited State Energies of Pyrimidine-Based Thermally Activated Delayed Fluorescence Emitters To Realize Efficient Deep-Blue Emission. <b>2017</b> , 9, 4742-4749		80
377	Single-component Eu <sup>3+</sup> /Tb <sup>3+</sup> /D <sup>3+</sup> -grafted polymer with ultra-high color rendering index white-light emission. <i>RSC Advances</i> , <b>2017</b> , 7, 6762-6771	3.7	19
376	Achieving efficient violet-blue electroluminescence with CIE 6% from naphthyl-linked phenanthroimidazole-carbazole hybrid fluorophores. <b>2017</b> , 8, 3599-3608		113
375	Synthesis and optoelectronic properties of dinuclear cyclometalated platinum (II) complexes containing naphthalene-functionalized carbazole groups in the single-emissive-layer WPLEDs. <b>2017</b> , 835, 52-59		6
374	New electroactive polymers with electronically isolated 3,6,9-triarylcarbazole units as efficient hole transporting materials for organic light emitting diodes. <i>Optical Materials</i> , <b>2017</b> , 66, 230-235	3.3	4
373	Colour stability of Blue/Green and white phosphorescent organic light-emitting diode employing a 9-(2-(4,5-diphenyl-4H-1,2,4-triazol-3-yl)phenyl)-9H-carbazole host. <i>Dyes and Pigments</i> , <b>2017</b> , 141, 463-469	4.6	3
372	Highly Simplified Tandem Organic Light-Emitting Devices Incorporating a Green Phosphorescence Ultrathin Emitter within a Novel Interface Exciplex for High Efficiency. <b>2017</b> , 9, 10955-10962		48
371	Impact of the number of o-carboranyl ligands on the photophysical and electroluminescent properties of iridium(III) cyclometalates. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3024-3034	7.1	15
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369	Towards highly efficient thermally activated delayed fluorescence devices through a trap-assisted recombination mechanism and reduced interfacial exciton annihilation. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4636-4644	7.1	11
368	Dynamic processes of charges generation in intermediate connectors for tandem organic light emitting diodes. <i>Organic Electronics</i> , <b>2017</b> , 46, 145-149	3.5	4
367	Dependence of Organic Interlayer Diffusion on Glass-Transition Temperature in OLEDs. <b>2017</b> , 9, 14153-14161		28
366	Influence of the linkage mode and D/A ratio of carbazole/oxadiazole based host materials on phosphorescent organic light-emitting diodes. <b>2017</b> , 188, 612-619		7
365	Effect of hole transporting materials on the emission characteristics of soluble processed organic light-emitting devices on the plastic substrate. <b>2017</b> , 644, 214-220		6

364	DFT study of host-dopant systems of DPVBi with organophosphorus $\pi$ -conjugated materials. <b>2017</b> , 1113, 61-71		2
363	Electroluminescent and Optoelectronic Properties of OLEDs with Bay-Extended, Distorted Perylene Esters as Emitter Materials. <b>2017</b> , 18, 2024-2032		21
362	Efficient solution-processed red all-fluorescent organic light-emitting diodes employing thermally activated delayed fluorescence materials as assistant hosts: molecular design strategy and exciton dynamic analysis. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5223-5231	7.1	37
361	Enhanced light-outcoupling in organic light-emitting diodes through a coated scattering layer based on porous polymer films. <i>Organic Electronics</i> , <b>2017</b> , 47, 117-125	3.5	17
360	Triplet Harvesting with a Simple Aromatic Carbonyl. <b>2017</b> , 18, 2314-2317		12
359	Increase of current density and luminance in organic light-emitting diode with reverse bias driving. <i>Organic Electronics</i> , <b>2017</b> , 48, 330-335	3.5	6
358	Manipulation of exciton distribution for high-performance fluorescent/phosphorescent hybrid white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7668-7683	7.1	84
357	3-2: Invited Paper: Color on Demand $\pi$ -Color-Tunable OLEDs for Lighting and Displays. <b>2017</b> , 48, 5-8		2
356	High-Performance Blue Molecular Emitter-Free and Doping-Free Hybrid White Organic Light-Emitting Diodes: an Alternative Concept To Manipulate Charges and Excitons Based on Exciplex and Electroplex Emission. <b>2017</b> , 4, 1566-1575		62
355	Electrical and Optical Impulse Response of High-Speed Micro-OLEDs Under UltraShort Pulse Excitation. <b>2017</b> , 64, 2942-2948		9
354	Regulating Charge and Exciton Distribution in High-Performance Hybrid White Organic Light-Emitting Diodes with n-Type Interlayer Switch. <b>2017</b> , 9, 37		32
353	Excited state intersystem crossing and the relaxation dynamics of phosphorescent Ir(III) complexes bearing bipyridine-based C <sup>N</sup> ligand. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 346, 225-235	4.7	3
352	A stepwise energy level doping structure for improving the lifetime of phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3948-3954	7.1	18
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350	Iridium(III) Complexes for OLED Application. <b>2017</b> , 205-274		26
349	Networking hole and electron hopping paths by Y-shaped host molecules: promoting blue phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3600-3608	7.1	9
348	Effect of lithium and silver diffusion in single-stack and tandem OLED devices. <i>Organic Electronics</i> , <b>2017</b> , 42, 102-106	3.5	14
347	Tunable Broadband Wavefronts Shaping via Chaotic Speckle Image Holography Carrier Fringes. <b>2017</b> , 5, 1600810		10



346	Significant Enhancement of Blue OLED Performances through Molecular Engineering of Pyrimidine-Based Emitter. <b>2017</b> , 5, 1600843		54
345	High Power Efficiency Blue-to-Green Organic Light-Emitting Diodes Using Isonicotinonitrile-Based Fluorescent Emitters. <b>2017</b> , 12, 648-654		21
344	Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. <b>2017</b> , 7, 1602121		205
343	Highly efficient exciplex organic light-emitting devices employing a sputtered indium-tin oxide electrode with nano-pinhole morphology. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12050-12056	7.1	10
342	The electro-optic performance and photovoltaic effect of organic devices based on cesium carbonate/Al/molybdenum trioxide intermediate connector. <i>Organic Electronics</i> , <b>2017</b> , 51, 452-457	3.5	4
341	Template-Assisted Benzannulation Route to Pentacene and Tetracene Derivatives and its Application to Construct Amphiphilic Acenes That Self-Assemble into Helical Wires. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17542-17548	4.8	2
340	Improvement of light outcoupling efficiency of organic light-emitting diodes utilizing microlens array fabricated using poly oxymethylene mold. <b>2017</b> , 651, 55-63		3
339	Organic Diode Rectifiers Based on a High-Performance Conjugated Polymer for a Near-Field Energy-Harvesting Circuit. <b>2017</b> , 29, 1703782		20
338	Doping-free tandem white organic light-emitting diodes. <b>2017</b> , 62, 1193-1200		28
337	Progress on material, structure and function for tandem organic light-emitting diodes. <i>Organic Electronics</i> , <b>2017</b> , 51, 220-242	3.5	35
336	An ideal universal host for highly efficient full-color, white phosphorescent and TADF OLEDs with a simple and unified structure. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10406-10416	7.1	47
335	High-Performance Doping-Free Hybrid White OLEDs Based on Blue Aggregation-Induced Emission Luminogens. <b>2017</b> , 9, 34162-34171		59
334	Anomalously Long-Lasting Blue PhOLED Featuring Phenyl-Pyrimidine Cyclometalated Iridium Emitter. <b>2017</b> , 3, 461-476		61
333	Decoupling degradation in exciton formation and recombination during lifetime testing of organic light-emitting devices. <b>2017</b> , 111, 113301		12
332	Ultrahigh-Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W at Luminance of 10 000 cd m. <b>2017</b> , 29, 1702847		92
331	Optimized electron-transport material based on m-terphenyl-diphenylphosphine oxide with the harmonious compatibility of high ET and electron mobility for highly efficient OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8516-8526	7.1	21
330	Effect of exciton blocking layers on the color-tunable properties of organic light-emitting devices. <b>2017</b> , 231, 58-64		5
329	Efficient Light Extraction of Organic Light-Emitting Diodes on a Fully Solution-Processed Flexible Substrate. <b>2017</b> , 5, 1700307		31



328	Electron-density distribution tuning for enhanced thermal stability of luminescent gold complexes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7977-7984	7.1	19
327	High-performance hybrid white organic light-emitting diodes exploiting blue thermally activated delayed fluorescent dyes. <i>Dyes and Pigments</i> , <b>2017</b> , 147, 83-89	4.6	26
326	Phosphorescent Iridium(III) Cyclometalates Supported by 2-(1,2-Dihydronaphthalen-4-yl)pyridine Ligand. <i>Bulletin of the Korean Chemical Society</i> , <b>2017</b> , 38, 544-549	1.2	
325	A study on thin film uniformity in a roll-to-roll thermal evaporation system for flexible OLED applications. <b>2017</b> , 18, 1111-1117		13
324	Enhanced outcoupling efficiency and removal of the microcavity effect in top-emitting OLED by using a simple vapor treated corrugated film. <i>RSC Advances</i> , <b>2017</b> , 7, 54876-54880	3.7	7
323	Design and Synthesis of Heteroleptic Iridium(III) Phosphors for Efficient Organic Light-Emitting Devices. <b>2017</b> , 56, 15304-15313		18
322	The effect of bilayer hole transporting layers using thermal crosslinking technology on the characteristics of organic light-emitting diodes. <b>2017</b> , 651, 99-107		2
321	Pyrene-Based Approach to Tune Emission Color from Blue to Yellow. <b>2017</b> , 82, 7176-7182		24
320	Aromatically C6- and C9-Substituted Phenanthro[9,10-d]imidazole Blue Fluorophores: Structure-Property Relationship and Electroluminescent Application. <b>2017</b> , 9, 26268-26278		55
319	Effects of Charge Balance and Exciton Confinement on the Operational Lifetime of Blue Phosphorescent Organic Light-Emitting Diodes. <b>2017</b> , 7,		14
318	Low-Cost and Green Fabrication of Polymer Electronic Devices by Push-Coating of the Polymer Active Layers. <b>2017</b> , 9, 25434-25444		24
317	MoS <sub>2</sub> -nanosheet/graphene-oxide composite hole injection layer in organic light-emitting diodes. <b>2017</b> , 13, 344-350		32
316	The application of TD-DFT to excited states of a family of TPD molecules interesting for optoelectronic use. <b>2017</b> , 136, 1		1
315	Multiaxial wavy top-emission organic light-emitting diodes on thermally prestrained elastomeric substrates. <i>Organic Electronics</i> , <b>2017</b> , 48, 314-322	3.5	10
314	Influence of solution- and thermal-annealing processes on the sub-nanometer-ordered organic-organic interface structure of organic light-emitting devices. <b>2017</b> , 9, 25-30		24
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311	Stable green phosphorescence organic light-emitting diodes with low efficiency roll-off using a novel bipolar thermally activated delayed fluorescence material as host. <b>2017</b> , 8, 1259-1268		60

310	Inhibition of solution-processed 1,4,5,8,9,11-hexaazatriphenylene-hexacarbonitrile crystallization by mixing additives for hole injection layers in organic light-emitting devices. <b>2017</b> , 49, 149-154	5
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307	Transition Metal Dichalcogenide-Based Transistor Circuits for Gray Scale Organic Light-Emitting Displays. <b>2017</b> , 27, 1603682	24
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305	Thermally Activated Delayed Fluorescence Emitter with a Symmetric Acceptor-Donor-Acceptor Structure. <b>2017</b> , 30, 475-481	5
304	Strategies to Achieve High-Performance White Organic Light-Emitting Diodes. <b>2017</b> , 10,	36
303	Computational Studies on Optoelectronic and Nonlinear Properties of Octaphyrin Derivatives. <b>2017</b> , 5, 11	11
302	Diarylboron-Based Asymmetric Red-Emitting Ir(III) Complex for Solution-Processed Phosphorescent Organic Light-Emitting Diode with External Quantum Efficiency above 28. <b>2018</b> , 5, 1701067	49
301	A Methodological Study on Tuning the Thermally Activated Delayed Fluorescent Performance by Molecular Constitution in Acridine-Benzophenone Derivatives. <b>2018</b> , 13, 1187-1191	9
300	Synthesis, Properties, Calculations and Applications of Small Molecular Host Materials Containing Oxadiazole Units with Different Nitrogen and Oxygen Atom Orientations for Solution-Processable Blue Phosphorescent OLEDs. <b>2018</b> , 14, 89-100	3
299	Solution processed ternary blend nano-composite charge regulation layer to enhance inverted OLED performances. <b>2018</b> , 112, 163302	6
298	Sensitivity of Redox and Optical Properties of Electroactive Carbazole Derivatives to the Molecular Architecture and Methoxy Substitutions. <b>2018</b> , 122, 10138-10152	19
297	Luminescent Diiridium Complexes with Bridging Pyrazolates: Characterization and Fabrication of OLEDs Using Vacuum Thermal Deposition. <b>2018</b> , 6, 1800083	25
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295	Combining emissions of hole- and electron-transporting layers simultaneously for simple blue and white organic light-emitting diodes with superior device performance. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1853-1862	7.1 28
294	Dipolar 1,3,6,8-tetrasubstituted pyrene-based blue emitters containing electro-transporting benzimidazole moieties: Syntheses, structures, optical properties, electrochemistry and electroluminescence. <i>Dyes and Pigments</i> , <b>2018</b> , 152, 1-13	4.6 14
293	Analysis of mechanisms responsible for the formation of dark spots in organic light emitting diodes (OLEDs): A review. <b>2018</b> , 235, 160-175	24

292	Inkjet-printed internal light extraction layers for organic light emitting diodes. <b>2018</b> , 3, 015007		3
291	Exciplex-Forming Cohost for High Efficiency and High Stability Phosphorescent Organic Light-Emitting Diodes. <b>2018</b> , 10, 2151-2157		49
290	Tunable and white luminescence from mixed lanthanide with aza-macrocycles through multistimuli responses. <b>2018</b> , 144, 95-100		3
289	Efficient near-infrared organic light-emitting diodes based on a bipolar host. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1407-1412	7.1	6
288	T-Shaped Benzimidazole Derivatives as Blue-Emitting Materials: The Role of C2 Substituents on Photophysical Properties. <b>2018</b> , 7, 729-738		1
287	Polyethers containing 4-(carbazol-2-yl)-7-arylbenzo[c]-1,2,5-thiadiazole chromophores as solution processed materials for hole transporting layers of OLEDs. <i>Optical Materials</i> , <b>2018</b> , 76, 63-68	3.3	2
286	Enhanced device efficiency in organic light-emitting diodes by dual oxide buffer layer. <i>Organic Electronics</i> , <b>2018</b> , 56, 254-259	3.5	10
285	Blue organic light-emitting diodes based on spiro[fluorene-indeno]pyridine derivatives. <b>2018</b> , 660, 24-32		3
284	Novel phenanthroimidazole-based blue AIEgens: reversible mechanochromism, bipolar transporting properties, and electroluminescence. <b>2018</b> , 42, 8924-8932		15
283	The photophysical properties of 1H-pyrazolo[3,4-b]quinoxalines derivatives and their possible optoelectronic application. <i>Optical Materials</i> , <b>2018</b> , 80, 87-97	3.3	8
282	Efficient red AIEgens based on tetraphenylethene: synthesis, structure, photoluminescence and electroluminescence. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5900-5907	7.1	27
281	Multicomponent-Reaction- (MCR-) Assisted Synthesis of a Coumarin-Based Deep Blue Emitter for OLEDs and Related Applications. <b>2018</b> , 3, 2951-2957		8
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279	Nanostructured Light-Emitting Polymer Thin Films and Devices Fabricated by the Environment-Friendly Push-Coating Technique. <b>2018</b> , 10, 11794-11800		14
278	Highly efficient and spectrally stable white organic light-emitting diodes using new red heteroleptic Iridium(III) complexes. <i>Dyes and Pigments</i> , <b>2018</b> , 149, 363-372	4.6	6
277	Bipolar deep-blue phenanthroimidazole derivatives: Structure, photophysical and electroluminescent properties. <i>Organic Electronics</i> , <b>2018</b> , 52, 89-97	3.5	10
276	Reliable, All-Phosphorescent Stacked White Organic Light Emitting Devices with a High Color Rendering Index. <b>2018</b> , 5, 630-635		17
275	Excellent n-type light emitters based on AIE-active silole derivatives for efficient simplified organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3690-3698	7.1	47

274	Recent advances in luminescent dinuclear iridium(III) complexes and their application in organic electroluminescent devices. <b>2018</b> , 140, 146-157		31
273	Hybrid organic light-emitting device based on ultrasonic spray-coating molybdenum trioxide transport layer with low turn-on voltage, improved efficiency & stability. <i>Organic Electronics</i> , <b>2018</b> , 52, 264-271	3.5	8
272	Chitosan hydrogelation with a phenothiazine based aldehyde: a synthetic approach toward highly luminescent biomaterials. <b>2018</b> , 9, 2359-2369		28
271	Carbazole/phenylpyridine hybrid compound as dual role of efficient host and ligand of iridium complex: Well matching of host-dopant for solution-processed green phosphorescent OLEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 150, 130-138	4.6	9
270	Efficient deep red phosphorescent OLEDs using 1,2,4-thiadiazole core-based novel bipolar host with low efficiency roll-off. <b>2018</b> , 11, 375-384		7
269	Solution processed organic light-emitting diodes using a triazatruxene crosslinkable hole transporting material.. <i>RSC Advances</i> , <b>2018</b> , 8, 35719-35723	3.7	16
268	Blends of Two Perylene Derivatives: Mesogenic Properties and Application As Emitter Materials in OLEDs. <b>2018</b> , 60, 48-54		2
267	New Mixed-C <sup>N</sup> Ligand Tris-Cyclometalated Ir(III) Complexes for Highly-Efficient Green Organic Light-Emitting Diodes with Low Efficiency Roll-Off. <b>2018</b> , 2018, 4614-4621		17
266	Excimer emission of Ir complex for solution processed single emitting layer white OLEDs. <i>Organic Electronics</i> , <b>2018</b> , 63, 305-309	3.5	1
265	A Solution Processed Flexible Nanocomposite Substrate with Efficient Light Extraction via Periodic Wrinkles for White Organic Light-Emitting Diodes. <b>2018</b> , 6, 1801015		19
264	White Organic Light-Emitting Diodes with Thermally Activated Delayed Fluorescence Emitters. <b>2018</b> ,		1
263	Four-Step Synthesis of BN-Embedded Corannulene. <b>2018</b> , 140, 13562-13565		70
262	Theoretical studies on thermally activated delayed fluorescence mechanism of a series of organic light-emitting diodes emitters comprising 2,7-diphenylamino-9,9-dimethylacridine as electron donor. <b>2018</b> , 39, 2601-2606		11
261	Hyperbranched polymers with aggregation-induced emission property for solution-processed white organic light-emitting diodes. <b>2018</b> , 74, 7218-7227		4
260	Larger VH (Hole Distribution Volume)/VM (Molecular Volume) Induced Higher Charge Mobility of Group IVA Element-Based Host Materials for Potentially Highly Efficient Blue OLEDs. <b>2018</b> , 122, 22273-22279		7
259	Four-coordinate Cu(I) complexes supported by N-heterocyclic carbene ligands bearing electron-donating/withdrawing groups: Synthesis, structures and photophysical properties. <b>2018</b> , 204, 618-625		11
258	Operation behaviors of interconnecting-layers in solution-processed tandem organic light-emitting devices. <i>Organic Electronics</i> , <b>2018</b> , 63, 98-103	3.5	2
257	Deep-Blue Oxadiazole-Containing Thermally Activated Delayed Fluorescence Emitters for Organic Light-Emitting Diodes. <b>2018</b> , 10, 33360-33372		58

256	Realization of high-power-efficiency white electroluminescence from a single polymer by energy-level engineering. <b>2018</b> , 9, 8656-8664		22
255	Vacuum-deposited MoO <sub>3</sub> /Ag/WO <sub>3</sub> multilayered electrode for highly efficient transparent and inverted organic light-emitting diodes. <i>Organic Electronics</i> , <b>2018</b> , 59, 266-271	3.5	18
254	Theoretical studies on electroluminescent mechanism of a series of thermally activated delayed fluorescence emitters possessing asymmetric-triazine-cored triads. <b>2018</b> , 202, 102-106		7
253	Accurate Treatment of Charge-Transfer Excitations and Thermally Activated Delayed Fluorescence Using the Particle-Particle Random Phase Approximation. <b>2018</b> , 14, 3196-3204		9
252	A Novel Linking Strategy of Using 9,10-Dihydroacridine to Construct Efficient Host Materials for Red Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 11755-11762	4.8	6
251	Mono substituted pyrenes as multifunctional materials for OLED: Analysis of the substituent effects on the charge transport properties using DFT methods. <b>2018</b> , 1138, 48-56		3
250	Triangulene-based Efficient Exciton Blocking Material for Organic Light-emitting Diodes. <b>2018</b> , 47, 920-922		5
249	High-Efficiency and High-Luminance Three-Color White Organic Light-Emitting Diodes with Low Efficiency Roll-Off. <b>2018</b> , 7, R99-R103		8
248	Alkyl-end phenanthroimidazole modification of benzotriazole based conjugated polymers for optoelectronic applications. <b>2018</b> , 244, 1-9		6
247	Virtual Screening of Hole Transport, Electron Transport, and Host Layers for Effective OLED Design. <b>2018</b> , 58, 2440-2449		13
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245	Enhanced device performances of a new inverted top-emitting OLEDs with relatively thick Ag electrode. <i>Optics Express</i> , <b>2018</b> , 26, 4979-4988	3.3	9
244	Analyses of multi-color plant-growth light sources in achieving maximum photosynthesis efficiencies with enhanced color qualities. <i>Optics Express</i> , <b>2018</b> , 26, 4135-4147	3.3	12
243	Emergence of White Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <b>2018</b> , 8, 299		28
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239	Monitoring of Plant Cells and Tissues in Bioprocesses. <i>Reference Series in Phytochemistry</i> , <b>2018</b> , 433-481	0.7	3

238	Spectral effects of light-emitting diodes on plant growth, visual color quality, and photosynthetic photon efficacy: White versus blue plus red radiation. <b>2018</b> , 13, e0202386	30
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229	Ultrahigh Power Efficiency Thermally Activated Delayed Fluorescent OLEDs by the Strategic Use of Electron-Transport Materials. <b>2018</b> , 6, 1800376	20
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227	Superior Efficiency and Low-Efficiency Roll-Off White Organic Light-Emitting Diodes Based on Multiple Exciplexes as Hosts Matched to Phosphor Emitters. <b>2019</b> , 11, 31078-31086	9
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201	Low-temperature cross-linking of polyethyleneimine ethoxylated using silane coupling agents to obtain stable electron injection layers in solution-processed organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6759-6766	7.1	6
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177	Aggregation-Induced Delayed Fluorescence Luminogens for Efficient Organic Light-Emitting Diodes. <b>2019</b> , 14, 828-835		26
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163	Fast Organic Vapor Phase Deposition of Thin Films in Light-Emitting Diodes. <i>ACS Nano</i> , <b>2020</b> , 14, 14157-14163	16.1	1
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161	Recent progress of narrowband TADF emitters and their applications in OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11340-11353	7.1	74
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