Shuming Chen

List of Publications by Year in Descending Order

171 papers	7,840 citations	48 h-index	84 g-index
184 ext. papers	8,877 ext. citations	6.8 avg, IF	6.29 L-index

#	Paper	IF	Citations
171	Thermal assisted up-conversion electroluminescence in quantum dot light emitting diodes.. *Nature Communications*, **2022**, 13, 369	17.4	11
170	Ultrahigh Resolution Pixelated Top-Emitting Quantum-Dot Light-Emitting Diodes Enabled by Color-Converting Cavities (Small Methods 1/2022). *Small Methods*, **2022**, 6, 2270002	12.8	
169	Ultrahigh Resolution Pixelated Top-Emitting Quantum-Dot Light-Emitting Diodes Enabled by Color-Converting Cavities.. *Small Methods*, **2022**, 6, e2101090	12.8	5
168	Al reaction-induced conductive a-InGaZnO as pixel electrode for active-matrix quantum-dot LED display. *IEEE Electron Device Letters*, **2022**, 1-1	4.4	0
167	Cadmium-Doped Zinc Sulfide Shell as a Hole Injection Springboard for Red, Green, and Blue Quantum Dot Light-Emitting Diodes.. *Advanced Science*, **2022**, e2104488	13.6	3
166	Flexible and tandem quantum-dot light-emitting diodes with individually addressable red/green/blue emission. *Npj Flexible Electronics*, **2021**, 5,	10.7	15
165	Effect and mechanism of encapsulation on aging characteristics of quantum-dot light-emitting diodes. *Nano Research*, **2021**, 14, 320-327	10	17
164	Synthesis, characterization, and optoelectronic properties of phenothiazine-based organic co-poly-ynes. *New Journal of Chemistry*, **2021**, 45, 15082-15095	3.6	1
163	New phosphorescent iridium(III) dipyrrinato complexes: synthesis, emission properties and their deep red to near-infrared OLEDs. *Dalton Transactions*, **2021**, 50, 10629-10639	4.3	3
162	The influence of H2O and O2 on the optoelectronic properties of inverted quantum-dot light-emitting diodes. *Nano Research*, **2021**, 14, 4140	10	3
161	37.1: Invited Paper: Efficient and Ultra-Bright Quantum-Dot Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 257-257	0.5	
160	Iridium(III) complexes with 1-phenylisoquinoline-4-carbonitrile units for efficient NIR organic light-emitting diodes. *IScience*, **2021**, 24, 102911	6.1	1
159	Blue OLEDs with narrow bandwidth using CF3 substituted bis((carbazol-9-yl)phenyl)amines as emitters: Structural regulation of linker between donor and acceptor in chromophores. *Dyes and Pigments*, **2021**, 194, 109627	4.6	1
158	Quantum-dot and organic hybrid tandem light-emitting diodes with color-selecting intermediate electrodes for full-color displays. *Nanoscale*, **2021**, 13, 16781-16789	7.7	1
157	ZnSe:Te/ZnSeS/ZnS nanocrystals: an access to cadmium-free pure-blue quantum-dot light-emitting diodes. *Nanoscale*, **2020**, 12, 11556-11561	7.7	12
156	Quantum-dot and organic hybrid tandem light-emitting diodes with multi-functionality of full-color-tunability and white-light-emission. *Nature Communications*, **2020**, 11, 2826	17.4	64
155	High performance top-emitting quantum dot light-emitting diodes with interfacial modification. *AIP Advances*, **2020**, 10, 065308	1.5	4

154	Suppressing Förster Resonance Energy Transfer in Close-Packed Quantum-Dot Thin Film: Toward Efficient Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency over 21.6%. *Advanced Optical Materials*, **2020**, 8, 1902092	8.1	20
153	Understanding the Interplay of Binary Organic Spacer in Ruddlesden–Popper Perovskites toward Efficient and Stable Solar Cells. *Advanced Functional Materials*, **2020**, 30, 1907759	15.6	17
152	High-efficiency organic electroluminescent materials based on the DADAD type with sterically hindered methyl groups. *Journal of Materials Chemistry C*, **2020**, 8, 6851-6860	7.1	10
151	Near-infrared and visible light dual-mode organic photodetectors. *Science Advances*, **2020**, 6, eaaw8065	14.3	72
150	A simple and efficient approach toward deep-red to near-infrared-emitting iridium(iii) complexes for organic light-emitting diodes with external quantum efficiencies of over 10. *Chemical Science*, **2020**, 11, 2342-2349	9.4	49
149	Tetraphenylbenzosilole: An AIE Building Block for Deep-Blue Emitters with High Performance in Nondoped Spin-Coating OLEDs. *Journal of Organic Chemistry*, **2020**, 85, 158-167	4.2	18
148	Tetrafluorinated phenylpyridine based heteroleptic iridium(III) complexes for efficient sky blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 2551-2557	7.1	9
147	Photo-/electro-luminescence enhancement of CsPbX3 (X = Cl, Br, or I) perovskite quantum dots via thiocyanate surface modification. *Journal of Materials Chemistry C*, **2020**, 8, 1065-1071	7.1	14
146	Stabilizing n-type hetero-junctions for NiOx based inverted planar perovskite solar cells with an efficiency of 21.6%. *Journal of Materials Chemistry A*, **2020**, 8, 1865-1874	13	27
145	Highly Luminescent CsPbBr@CsPbBr Nanocrystals and Their Application in Electroluminescent Emitters. *Journal of Physical Chemistry Letters*, **2020**, 11, 10196-10202	6.4	11
144	Identification of excess charge carriers in InP-based quantum-dot light-emitting diodes. *Applied Physics Letters*, **2020**, 117, 053502	3.4	12
143	Laminated low-melting-point-alloy electrodes for vacuum-free-processed quantum-dot light-emitting-diodes. *Applied Physics Letters*, **2020**, 117, 063302	3.4	4
142	Synthesis, crystal structure, aggregation-induced emission (AIE) and electroluminescence properties of a novel emitting material based on pyrrolo[3,2-b]pyrrole. *Journal of Materials Chemistry C*, **2020**, 8, 14208-14218	7.1	5
141	51-4: QLED-on-Silicon Microdisplays. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 758-761	0.5	1
140	Investigation on Thermally Induced Efficiency Roll-Off: Toward Efficient and Ultrabright Quantum-Dot Light-Emitting Diodes. *ACS Nano*, **2019**, 13, 11433-11442	16.7	58
139	A low-temperature-annealed and UV-ozone-enhanced combustion derived nickel oxide hole injection layer for flexible quantum dot light-emitting diodes. *Nanoscale*, **2019**, 11, 1021-1028	7.7	26
138	Beyond OLED: Efficient Quantum Dot Light-Emitting Diodes for Display and Lighting Application. *Chemical Record*, **2019**, 19, 1729-1752	6.6	59
137	An ZnMgO:PVP inorganic–organic hybrid electron transport layer: towards efficient bottom-emission and transparent quantum dot light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 2291-2298	7.1	24

136	Rational design of high efficiency green to deep red/near-infrared emitting materials based on isomeric donor–acceptor chromophores. *Journal of Materials Chemistry C*, **2019**, 7, 1880-1887	7.1	22
135	47-4: Aging Behaviors of QLED with Different Structures. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 656-659	0.5	1
134	P-114: White and Top-Emitting Quantum-Dot Light-Emitting Diodes with Indium-Tin-Oxide Top Electrodes. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1677-1680	0.5	
133	Defects Passivation With Dithienobenzodithiophene-based π-conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900029	7.1	50
132	All-Inorganic Quantum-Dot Light-Emitting Diodes with Reduced Exciton Quenching by a MgO Decorated Inorganic Hole Transport Layer. *ACS Applied Materials & Interfaces*, **2019**, 11, 11119-11124	9.5	16
131	Improving blue quantum dot light-emitting diodes by a lithium fluoride interfacial layer. *Applied Physics Letters*, **2019**, 114, 071101	3.4	21
130	Hydrophobic CuO Quantum Dots Enabled by Surfactant Modification as Top Hole-Transport Materials for Efficient Perovskite Solar Cells. *Advanced Science*, **2019**, 6, 1801169	13.6	60
129	Recent progress in the device architecture of white quantum-dot light-emitting diodes. *Journal of Information Display*, **2019**, 20, 169-180	4.1	11
128	Universal Bipolar Host Materials for Blue, Green, and Red Phosphorescent OLEDs with Excellent Efficiencies and Small-Efficiency Roll-Off. *ACS Applied Materials & Interfaces*, **2019**, 11, 27134-27144	9.5	47
127	Aggregation-Induced Delayed Fluorescence Luminogens with Accelerated Reverse Intersystem Crossing for High-Performance OLEDs **2019**, 1, 613-619		35
126	Alternating-current driven quantum-dot light-emitting diodes with high brightness. *Nanoscale*, **2019**, 11, 5231-5239	7.7	9
125	New carbazole-substituted siloles for the fabrication of efficient non-doped OLEDs. *Chinese Chemical Letters*, **2019**, 30, 592-596	8.1	9
124	Aggregation-Induced Delayed Fluorescence Luminogens for Efficient Organic Light-Emitting Diodes. *Chemistry - an Asian Journal*, **2019**, 14, 828-835	4.5	26
123	Achieving High-Performance Solution-Processed Deep-Red/Near-Infrared Organic Light-Emitting Diodes with a Phenanthroline-Based and Wedge-Shaped Fluorophore. *Advanced Electronic Materials*, **2019**, 5, 1800677	6.4	14
122	Full color quantum dot light-emitting diodes patterned by photolithography technology. *Journal of the Society for Information Display*, **2018**, 26, 121-127	2.1	21
121	Thermally activated delayed fluorescence material with aggregation-induced emission properties for highly efficient organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 2873-2881	7.1	43
120	A new blue AIEgen based on tetraphenylethene with multiple potential applications in fluorine ion sensors, mechanochromism, and organic light-emitting diodes. *New Journal of Chemistry*, **2018**, 42, 4089-4094	3.6	18
119	Efficient Red/Green/Blue Tandem Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency Exceeding 21. *ACS Nano*, **2018**, 12, 697-704	16.7	176

118	Efficient red AIEgens based on tetraphenylethene: synthesis, structure, photoluminescence and electroluminescence. *Journal of Materials Chemistry C*, **2018**, 6, 5900-5907	7.1	27
117	Construction of two AIE luminogens comprised of a tetra-/tri-phenylethene core and carbazole units for non-doped organic light-emitting diodes. *Dyes and Pigments*, **2018**, 149, 323-330	4.6	10
116	Less-Lead Control toward Highly Efficient Formamidinium-Based Perovskite Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 24242-24248	9.5	15
115	Efficient deep blue electroluminescence with CIEy ? (0.05□0.07) from phenanthroimidazole□acridine derivative hybrid fluorophores. *Journal of Materials Chemistry C*, **2018**, 6, 9363-9373	7.1	26
114	Flexible high energy density zinc-ion batteries enabled by binder-free MnO2/reduced graphene oxide electrode. *Npj Flexible Electronics*, **2018**, 2,	10.7	50
113	Recent Progress in Vibration Energy Recovery Devices and Methods. *Recent Patents on Mechanical Engineering*, **2018**, 11, 24-30	0.3	
112	High-Performance Quantum Dot Light-Emitting Diodes Based on Al-Doped ZnO Nanoparticles Electron Transport Layer. *ACS Applied Materials & Interfaces*, **2018**, 10, 18902-18909	9.5	56
111	Enhancing the Performance of Quantum-Dot Light-Emitting Diodes by Postmetallization Annealing. *ACS Applied Materials & Interfaces*, **2018**, 10, 23218-23224	9.5	15
110	The influence of the hole transport layers on the performance of blue and color tunable quantum dot light-emitting diodes. *Journal of the Society for Information Display*, **2018**, 26, 470-476	2.1	10
109	Smart Design on the Cyclometalated Ligands of Iridium(III) Complexes for Facile Tuning of Phosphorescence Color Spanning from Deep-Blue to Near-Infrared. *Advanced Optical Materials*, **2018**, 6, 1800824	8.1	28
108	Electric Bias Induced Degradation in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. *Scientific Reports*, **2018**, 8, 15799	4.9	15
107	73-4: Tandem Red Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency over 34 %. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 977-980	0.5	2
106	73-3: Distinguished Student Paper: Full Color Quantum Dot Light-Emitting Diodes Patterned by Photolithography Technology. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 973-976	0.5	
105	Efficient and Color Stable White Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency Over 23%. *Advanced Optical Materials*, **2018**, 6, 1800354	8.1	35
104	Origin of Positive Aging in Quantum-Dot Light-Emitting Diodes. *Advanced Science*, **2018**, 5, 1800549	13.6	47
103	Cadmium-Free InP/ZnSeS/ZnS Heterostructure-Based Quantum Dot Light-Emitting Diodes with a ZnMgO Electron Transport Layer and a Brightness of Over 10 000 cd m. *Small*, **2017**, 13, 1603962	11	105
102	Enhanced conductivity of transparent and flexible silver nanowire electrodes fabricated by a solution-processed method at room temperature. *Thin Solid Films*, **2017**, 624, 54-60	2.2	7
101	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag-CsPbBr System. *ACS Applied Materials & Interfaces*, **2017**, 9, 4926-4931	9.5	75

100	Steric, conjugation and electronic impacts on the photoluminescence and electroluminescence properties of luminogens based on phosphindole oxide. *Journal of Materials Chemistry C*, **2017**, 5, 1836-1842	7.1	34
99	Hybrid Perovskite Light-Emitting Diodes Based on Perovskite Nanocrystals with Organic-Inorganic Mixed Cations. *Advanced Materials*, **2017**, 29, 1606405	24	189
98	All solution-processed white quantum-dot light-emitting diodes with three-unit tandem structure. *Journal of the Society for Information Display*, **2017**, 25, 143-150	2.1	20
97	Bright and efficient light-emitting diodes based on MA/Cs double cation perovskite nanocrystals. *Journal of Materials Chemistry C*, **2017**, 5, 6123-6128	7.1	50
96	Efficient quantum dot light-emitting diodes with a ZnMgO interfacial modification layer. *Nanoscale*, **2017**, 9, 8962-8969	7.7	112
95	3,4-Donor- and 2,5-acceptor-functionalized dipolar siloles: synthesis, structure, photoluminescence and electroluminescence. *Journal of Materials Chemistry C*, **2017**, 5, 4867-4874	7.1	22
94	Thin film perovskite light-emitting diode based on CsPbBr 3 powders and interfacial engineering. *Nano Energy*, **2017**, 37, 40-45	17.1	86
93	13-3: Top-emitting Quantum-dot Light-emitting Diodes with all the p-i-n Functional Layers Deposited by Solution Processes. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 161-164	0.5	4
92	P-120: Over 60 cd/A Efficient Vacuum-free-processed Green Quantum Dot Light-Emitting Diodes for Next Generation Displays. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1708-1710	0.5	
91	P-115: Distinguished Student Paper: All Solution-Processed White Quantum-Dot Light-Emitting Diodes with Three-Unit Tandem Structure. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1691-1694	0.5	2
90	P-117: Inverted Quantum Dot Light-Emitting Diodes with MgZnO Modified Electron Transport Layer. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1699-1701	0.5	1
89	Halide-Rich Synthesized Cesium Lead Bromide Perovskite Nanocrystals for Light-Emitting Diodes with Improved Performance. *Chemistry of Materials*, **2017**, 29, 5168-5173	9.6	187
88	Light-Emitting Diodes: Over 100 cd A□ Efficient Quantum Dot Light-Emitting Diodes with Inverted Tandem Structure (Adv. Funct. Mater. 21/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	1
87	Over 100 cd A□ Efficient Quantum Dot Light-Emitting Diodes with Inverted Tandem Structure. *Advanced Functional Materials*, **2017**, 27, 1700610	15.6	100
86	Solution-processed vanadium oxide as an efficient hole injection layer for quantum-dot light-emitting diodes. *Journal of Materials Chemistry C*, **2017**, 5, 817-823	7.1	63
85	Selective wetting/dewetting for controllable patterning of liquid metal electrodes for all-printed device application. *Journal of Materials Chemistry C*, **2017**, 5, 12378-12383	7.1	35
84	Cyclometalated Iridium(III) Carbene Phosphors for Highly Efficient Blue Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 40497-40502	9.5	61
83	Synthesis, aggregation-induced emission and electroluminescence properties of three new phenylethylene derivatives comprising carbazole and (dimesitylboranyl)phenyl groups. *Journal of Materials Chemistry C*, **2017**, 5, 11741-11750	7.1	10

82	High-Performance CsPb1⊠SnxBr3 Perovskite Quantum Dots for Light-Emitting Diodes. *Angewandte Chemie*, **2017**, 129, 13838-13842	3.6	29
81	High-Performance CsPb Sn Br Perovskite Quantum Dots for Light-Emitting Diodes. *Angewandte Chemie - International Edition*, **2017**, 56, 13650-13654	16.4	107
80	Investigation of Exciton Recombination Zone in Quantum Dot Light-Emitting Diodes Using a Fluorescent Probe. *ACS Applied Materials & Interfaces*, **2017**, 9, 27809-27816	9.5	7
79	P-9: Parylene / Al2O3 Double Layer Passivated Amorphous InGaZnO Thin-Film Transistors. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1258-1261	0.5	7
78	Sky-blue nondoped OLEDs based on new AIEgens: ultrahigh brightness, remarkable efficiency and low efficiency roll-off. *Materials Chemistry Frontiers*, **2017**, 1, 176-180	7.8	48
77	Efficient vacuum-free-processed quantum dot light-emitting diodes with printable liquid metal cathodes. *Nanoscale*, **2016**, 8, 17765-17773	7.7	45
76	Synthesis, aggregation-induced emission, and electroluminescence properties of a novel emitter comprising tetraphenylethene and carbazole moieties. *Synthetic Metals*, **2016**, 220, 356-361	3.6	2
75	Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. *Nano Energy*, **2016**, 30, 511-516	17.1	67
74	Very Bright and Efficient Microcavity Top-Emitting Quantum Dot Light-Emitting Diodes with Ag Electrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 16768-75	9.5	58
73	Improving Electron Mobility of Tetraphenylethene-Based AIEgens to Fabricate Nondoped Organic Light-Emitting Diodes with Remarkably High Luminance and Efficiency. *ACS Applied Materials & Interfaces*, **2016**, 8, 16799-808	9.5	70
72	Improving charge balance in quantum-dot light-emitting diodes by using copper cathode. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 2371-2374	1.6	1
71	The synthesis, crystal structures, aggregation-induced emission and electroluminescence properties of two novel green-yellow emitters based on carbazole-substituted diphenylethene and dimesitylboron. *Organic Electronics*, **2016**, 33, 78-87	3.5	14
70	Inverted Quantum-Dot Light-Emitting Diodes Fabricated by All-Solution Processing. *ACS Applied Materials & Interfaces*, **2016**, 8, 5493-8	9.5	71
69	Performance of Inverted Quantum Dot Light-Emitting Diodes Enhanced by Using Phosphorescent Molecules as Exciton Harvesters. *Journal of Physical Chemistry C*, **2016**, 120, 4667-4672	3.8	25
68	Two novel phenylethene-carbazole derivatives containing dimesitylboron groups: Aggregation-induced emission and electroluminescence properties. *Dyes and Pigments*, **2016**, 128, 304-313	4.6	7
67	Highly transparent quantum-dot light-emitting diodes with sputtered indium-tin-oxide electrodes. *Journal of Materials Chemistry C*, **2016**, 4, 1838-1841	7.1	46
66	The synthesis of novel AIE emitters with the triphenylethene-carbazole skeleton and para-/meta-substituted arylboron groups and their application in efficient non-doped OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 1228-1237	7.1	41
65	P-88: Transparent Quantum Dot Light-Emitting Diodes with Sputtered ITO Electrodes. *Digest of Technical Papers SID International Symposium*, **2016**, 47, 1455-1457	0.5	

64	A very dark-and-conductive electrode based on Mo/MoOx/ITO structure. *Applied Surface Science*, **2016**, 384, 348-352	6.7	
63	Platinum(II) cyclometallates featuring broad emission bands and their applications in color-tunable OLEDs and high color-rendering WOLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 6016-6026	7.1	44
62	Dimesitylboryl-functionalized tetraphenylethene derivatives: efficient solid-state luminescent materials with enhanced electron-transporting ability for nondoped OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 5241-5247	7.1	29
61	Aggregation-enhanced emission and through-space conjugation of tetraarylethanes and folded tetraarylethenes. *Journal of Materials Chemistry C*, **2016**, 4, 9316-9324	7.1	19
60	Improved Efficiency and Enhanced Color Quality of Light-Emitting Diodes with Quantum Dot and Organic Hybrid Tandem Structure. *ACS Applied Materials & Interfaces*, **2016**, 8, 26982-26988	9.5	19
59	Tuning the AIE Activities and Emission Wavelengths of Tetraphenylethene-Containing Luminogens. *ChemistrySelect*, **2016**, 1, 812-818	1.8	11
58	He plasma treatment of transparent conductive ZnO thin films. *Applied Surface Science*, **2015**, 355, 702-706	6.7	6
57	Synthesis, aggregation-induced emission and electroluminescence properties of a novel compound containing tetraphenylethene, carbazole and dimesitylboron moieties. *Journal of Materials Chemistry C*, **2015**, 3, 9095-9102	7.1	17
56	Top-emitting organic light-emitting diodes integrated with thermally evaporated scattering film for reducing angular dependence of emission spectra. *Organic Electronics*, **2015**, 24, 195-199	3.5	10
55	Red emissive AIE luminogens with high hole-transporting properties for efficient non-doped OLEDs. *Chemical Communications*, **2015**, 51, 7321-4	5.8	65
54	. *IEEE Electron Device Letters*, **2015**, 36, 369-371	4.4	32
53	Enhanced interference using microcavity structure for accurate thin film thickness measurement. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2718-2721	1.6	1
52	Paper No P12: Transparent Conductive Electrode Based on Hydrogen Doped Zinc Oxide for OLED Application. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 79-79	0.5	
51	20.3: Optimizing the Balance of Holes and Electrons in Inverted Quantum Dot Light-Emitting Diodes by Inserting Electron Transportation Barrier Layer. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 274-277	0.5	4
50	A Low-Cost Nano-modified Substrate Integrating both Internal and External Light Extractors for Enhancing Light Out-Coupling in Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2014**, 2, 418-422	8.1	10
49	Structural features and optical properties of a carbazole-containing ethene as a highly emissive organic solid. *Journal of Materials Chemistry C*, **2014**, 2, 1004-1009	7.1	19
48	High-contrast top-emitting organic light-emitting diodes with AlO 1.086 dark-and-conductive electrodes. *Organic Electronics*, **2014**, 15, 3552-3557	3.5	2
47	Crafting NPB with tetraphenylethene: a win□win strategy to create stable and efficient solid-state emitters with aggregation-induced emission feature, high hole-transporting property and efficient electroluminescence. *Journal of Materials Chemistry C*, **2014**, 2, 3756-3761	7.1	34

46	Aggregation-induced emission, mechanochromism and blue electroluminescence of carbazole and triphenylamine-substituted ethenes. *Journal of Materials Chemistry C*, **2014**, 2, 4320-4327	7.1	89
45	ZnO:H indium-free transparent conductive electrodes for active-matrix display applications. *Applied Physics Letters*, **2014**, 105, 223304	3.4	8
44	Light Extraction: A Low-Cost Nano-modified Substrate Integrating both Internal and External Light Extractors for Enhancing Light Out-Coupling in Organic Light-Emitting Diodes (Advanced Optical Materials 5/2014). *Advanced Optical Materials*, **2014**, 2, 502-502	8.1	1
43	P-140: Hybrid Analog-Digital Driving Method for High Definition AMOLED. *Digest of Technical Papers SID International Symposium*, **2014**, 45, 1514-1517	0.5	1
42	Nanocrystallized Organic Thin Films as Effective Light Outcoupling Layers for Organic Light-Emitting Diodes. *Israel Journal of Chemistry*, **2014**, 54, 847-854	3.4	5
41	P-144: Organic Light-Emitting Diodes Fabricated on Nanostructured AZO: A Low-Cost Way towards Enhanced Light Extraction for Large Area Lighting Application. *Digest of Technical Papers SID International Symposium*, **2014**, 45, 1526-1529	0.5	
40	Fabrication of color tunable organic light-emitting diodes by an alignment free mask patterning method. *Organic Electronics*, **2013**, 14, 2001-2006	3.5	29
39	Enlarged tetrasubstituted alkenes with enhanced thermal and optoelectronic properties. *Chemical Communications*, **2013**, 49, 7216-8	5.8	22
38	Highly efficient iridium(III) phosphors with phenoxy-substituted ligands and their high-performance OLEDs. *Journal of Materials Chemistry C*, **2013**, 1, 808-821	7.1	61
37	Full color organic electroluminescent display with shared blue light-emitting layer for reducing one fine metal shadow mask. *Organic Electronics*, **2012**, 13, 31-35	3.5	21
36	Efficient Light Emitters in the Solid State: Synthesis, Aggregation-Induced Emission, Electroluminescence, and Sensory Properties of Luminogens with Benzene Cores and Multiple Triarylvinyl Peripherals. *Advanced Functional Materials*, **2012**, 22, 378-389	15.6	189
35	Using tetraphenylethene and carbazole to create efficient luminophores with aggregation-induced emission, high thermal stability, and good hole-transporting property. *Journal of Materials Chemistry*, **2012**, 22, 4527		92
34	Tuning the electronic nature of aggregation-induced emission chromophores with enhanced electron-transporting properties. *Journal of Materials Chemistry*, **2012**, 22, 5184		31
33	A tetraphenylethene-based red luminophor for an efficient non-doped electroluminescence device and cellular imaging. *Journal of Materials Chemistry*, **2012**, 22, 11018		81
32	Growth methods, enhanced photoluminescence, high hydrophobicity and light scattering of 4,4?-bis(1,2,2-triphenylvinyl)biphenyl nanowires. *Organic Electronics*, **2012**, 13, 1996-2002	3.5	21
31	A Facile Approach to Highly Efficient and Thermally Stable Solid-State Emitters: Knitting up AIE-Active TPE Luminogens by Aryl Linkers. *ChemPlusChem*, **2012**, 77, 949-958	2.8	17
30	P-113: Color Filter Pixel Arrangement for Improving the Color Gamut of AMOLED Microdisplay. *Digest of Technical Papers SID International Symposium*, **2012**, 43, 1484-1487	0.5	3
29	Siloles symmetrically substituted on their 2,5-positions with electron-accepting and donating moieties: facile synthesis, aggregation-enhanced emission, solvatochromism, and device application. *Chemical Science*, **2012**, 3, 549-558	9.4	111

28	Efficient Solid Emitters with Aggregation-Induced Emission and Intramolecular Charge Transfer Characteristics: Molecular Design, Synthesis, Photophysical Behaviors, and OLED Application. *Chemistry of Materials*, **2012**, 24, 1518-1528	9.6	418
27	Naphthalene-substituted 2,3,4,5-tetraphenylsiloles: synthesis, structure, aggregation-induced emission and efficient electroluminescence. *Journal of Materials Chemistry*, **2012**, 22, 20266		24
26	One-step fabrication of organic nanoparticles as scattering media for extracting substrate waveguide light from organic light-emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 13386		17
25	A facile and versatile approach to efficient luminescent materials for applications in organic light-emitting diodes. *Chemistry - an Asian Journal*, **2012**, 7, 484-8	4.5	62
24	From a fluorescent chromophore in solution to an efficient emitter in the solid state. *Chemistry - an Asian Journal*, **2012**, 7, 2424-8	4.5	12
23	Systemic studies of tetraphenylethene-triphenylamine oligomers and a polymer: achieving both efficient solid-state emissions and hole-transporting capability. *Chemistry - A European Journal*, **2012**, 18, 9929-38	4.8	35
22	Phenanthro[9,10-d]imidazole as a new building block for blue light emitting materials. *Journal of Materials Chemistry*, **2011**, 21, 5451		206
21	Construction of efficient solid emitters with conventional and AIE luminogens for blue organic light-emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 10949		62
20	Towards high efficiency solid emitters with aggregation-induced emission and electron-transport characteristics. *Chemical Communications*, **2011**, 47, 11216-8	5.8	131
19	Full emission color tuning in luminogens constructed from tetraphenylethene, benzo-2,1,3-thiadiazole and thiophene building blocks. *Chemical Communications*, **2011**, 47, 8847-9	5.8	158
18	Pyrene-substituted ethenes: aggregation-enhanced excimer emission and highly efficient electroluminescence. *Journal of Materials Chemistry*, **2011**, 21, 7210		189
17	Tuning the Electronic Nature of Aggregation-Induced Emission Luminogens with Enhanced Hole-Transporting Property. *Chemistry of Materials*, **2011**, 23, 2536-2544	9.6	171
16	Alleviate microcavity effects in top-emitting white organic light-emitting diodes for achieving broadband and high color rendition emission spectra. *Organic Electronics*, **2011**, 12, 2065-2070	3.5	18
15	White Organic Light-Emitting Diodes with Evenly Separated Red, Green, and Blue Colors for Efficiency/Color-Rendition Trade-Off Optimization. *Advanced Functional Materials*, **2011**, 21, 3785-3793	15.6	154
14	Stereoselective synthesis, efficient light emission, and high bipolar charge mobility of chiasmatic luminogens. *Advanced Materials*, **2011**, 23, 5430-5	24	97
13	Top-emitting white organic light-emitting diodes with a color conversion cap layer. *Organic Electronics*, **2011**, 12, 677-681	3.5	44
12	Bi-layer non-doped small-molecular white organic light-emitting diodes with high colour stability. *Journal Physics D: Applied Physics*, **2011**, 44, 145101	3	11
11	Non-doped white organic light-emitting diodes based on aggregation-induced emission. *Journal Physics D: Applied Physics*, **2010**, 43, 095101	3	38

10	Luminescent tetraphenylethene-substituted silanes. *Pure and Applied Chemistry*, **2010**, 82, 863-870	2.1	18
9	Aggregation-induced emission, self-assembly, and electroluminescence of 4,4Qbis(1,2,2-triphenylvinyl)biphenyl. *Chemical Communications*, **2010**, 46, 686-8	5.8	292
8	Light extraction from organic light-emitting diodes for lighting applications by sand-blasting substrates. *Optics Express*, **2010**, 18, 37-42	3.3	76
7	Steric Hindrance, Electronic Communication, and Energy Transfer in the Photo- and Electroluminescence Processes of Aggregation-Induced Emission Luminogens. *Journal of Physical Chemistry C*, **2010**, 114, 7963-7972	3.8	102
6	Creation of highly efficient solid emitter by decorating pyrene core with AIE-active tetraphenylethene peripheries. *Chemical Communications*, **2010**, 46, 2221-3	5.8	327
5	P-165: Efficient RGBW OLEDs Based on 4, 4?-Bis (1, 2, 2-triphenylvinyl) biphenyl. *Digest of Technical Papers SID International Symposium*, **2010**, 41, 1867	0.5	3
4	Changing the behavior of chromophores from aggregation-caused quenching to aggregation-induced emission: development of highly efficient light emitters in the solid state. *Advanced Materials*, **2010**, 22, 2159-63	24	723
3	High-efficiency and high-contrast phosphorescent top-emitting organic light-emitting devices with p-type Si anodes. *Optics Express*, **2007**, 15, 14644-9	3.3	27
2	Efficient and Stable Quantum-Dot Light-Emitting Diodes Enabled by Tin Oxide Multifunctional Electron Transport Layer. *Advanced Optical Materials*,2102404	8.1	2
1	High throughput screening of novel tribromide perovskite materials for high-photovoltage solar cells. *Journal of Materials Chemistry A*,	13	3