Man-Keung Fung

List of Publications by Year in Descending Order

82 papers	2,612 citations	26 h-index	50 g-index
88 ext. papers	3,108 ext. citations	8.3 avg, IF	5.22 L-index

#	Paper	IF	Citations
82	Isomeric thermally activated delayed fluorescence emitters based on a quinolino[3,2,1-de]acridine-5,9-dione multiple resonance core and carbazole substituent. *Materials Chemistry Frontiers*, **2022**, 6, 966-972	7.8	3
81	Exciplex host coupled with a micro-cavity enabling high efficiency OLEDs with narrow emission profile. *Journal of Materials Chemistry C*, **2022**, 10, 5666-5671	7.1	
80	Highly efficient thermally activated delayed fluorescence emitters with suppressed energy loss and a fast reverse intersystem crossing process. *Journal of Materials Chemistry C*, **2022**, 10, 3685-3690	7.1	0
79	In-situ inorganic ligand replenishment enables bandgap stability in mixed-halide perovskite quantum dot solids.. *Advanced Materials*, **2022**, e2200854	24	11
78	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized □CsPbI Perovskite. *Angewandte Chemie - International Edition*, **2021**, 60, 16164-16170	16.4	59
77	Inverted with power efficiency over 220 lm W□1. *Nano Energy*, **2021**, 82, 105660	17.1	1
76	Positive impact of chromophore flexibility on the efficiency of red thermally activated delayed fluorescence materials. *Materials Horizons*, **2021**, 8, 1297-1303	14.4	15
75	Dimers with thermally activated delayed fluorescence (TADF) emission in non-doped device. *Journal of Materials Chemistry C*, **2021**, 9, 4792-4798	7.1	4
74	Interrupted intramolecular donor-acceptor interaction compensated by strong through-space electronic coupling for highly efficient near-infrared TADF with emission over 800 nm. *Chemical Engineering Journal*, **2021**, 430, 132744	14.7	4
73	A series of novel host materials based on the 10,11-dihydro-5H-dibenzo[b,f]azepine unit for highly efficient green and red organic light-emitting diodes. *Journal of Materials Chemistry C*, **2021**, 9, 2969-2976	7.1	1
72	Efficient red phosphorescent Ir(III) complexes based on rigid ligands with high external quantum efficiency and low efficiency roll-off. *Journal of Materials Chemistry C*, **2020**, 8, 6168-6175	7.1	4
71	Hybrid Tandem White OLED with Long Lifetime and 150 Lm W□1 in Luminous Efficacy Based on TADF Blue Emitter Stabilized with Phosphorescent Red Emitter. *Advanced Optical Materials*, **2020**, 8, 2000727	8.1	19
70	High-performance organic light-emitting diodes with natural white emission based on thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2020**, 8, 10431-10437	7.1	5
69	The one-pot synthesis of homoleptic phenylphthalazine iridium(III) complexes and their application in high efficiency OLEDs. *Journal of Luminescence*, **2020**, 219, 116846	3.8	4
68	Donor-spiro-acceptor architecture for green thermally activated delayed fluorescence (TADF) emitter. *Organic Electronics*, **2020**, 77, 105520	3.5	8
67	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. *Advanced Optical Materials*, **2020**, 8, 1901150	8.1	41
66	Efficient Violet Organic Light-Emitting Diodes with CIEy of 0.02 Based on Spiro Skeleton. *Advanced Optical Materials*, **2020**, 8, 2001074	8.1	16

65	Spiro-type host materials with rigidified skeletons for RGB phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 12470-12477	7.1	7
64	Efficient yellow OLEDs based on bis-tridentate iridium(III) complexes with two C?N?N-coordinating ligands. *Inorganica Chimica Acta*, **2020**, 499, 119168	2.7	3
63	Deep-Blue and Hybrid-White Organic Light Emitting Diodes Based on a Twisting Carbazole-Benzofuro[2,3-b]Pyrazine Fluorescent Emitter. *Molecules*, **2019**, 24,	4.8	12
62	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with D□A□A type emitters. *Materials Chemistry Frontiers*, **2019**, 3, 161-167	7.8	11
61	Diazaspirocycles: novel platforms for efficient phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 1370-1378	7.1	9
60	Design and Synthesis of Donor-□□Acceptor-Type Dispiro Molecules. *Organic Letters*, **2019**, 21, 5281-5284	6.2	6
59	P-144: High Luminous Efficacy White OLED for Lighting. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1767-1770	0.5	1
58	The synthesis of di-orthometallated triphenyl phosphite iridium(III) complexes with steric groups and their application in OLEDs. *Inorganica Chimica Acta*, **2019**, 495, 118942	2.7	1
57	Nano-modified indium tin oxide incorporated with ideal microlens array for light extraction of OLED. *Journal of Materials Chemistry C*, **2019**, 7, 3958-3964	7.1	18
56	A series of fluorenone-carbazole based regioisomers as bipolar host materials for efficient organic light emitting diodes. *Tetrahedron*, **2019**, 75, 2664-2669	2.4	6
55	Dispirocycles: Platforms for the Construction of High-Performance Host Materials for Phosphorescent Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2019**, 25, 6788-6796	4.8	5
54	Ideal microlens array based on polystyrene microspheres for light extraction in organic light-emitting diodes. *Organic Electronics*, **2019**, 69, 348-353	3.5	9
53	Doped copper phthalocyanine via an aqueous solution process for high-performance organic light-emitting diodes. *Organic Electronics*, **2019**, 68, 236-241	3.5	9
52	Four-Coordinate Organoboron Platforms for Efficient Red Phosphorescent Organic Light-Emitting Diodes. *ChemPlusChem*, **2019**, 84, 1587-1595	2.8	0
51	Management of Exciton for Highly-Efficient Hybrid White Organic Light-Emitting Diodes with a Non-Doped Blue Emissive Layer. *Molecules*, **2019**, 24,	4.8	1
50	Interfacial engineering for highly efficient quasi-two dimensional organic□inorganic hybrid perovskite light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 4344-4349	7.1	26
49	Influence of a lecithin additive on the performance of all-inorganic perovskite light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 2905-2910	7.1	16
48	Modulation of p-type units in tripodal bipolar hosts towards highly efficient red phosphorescent OLEDs. *Dyes and Pigments*, **2019**, 162, 632-639	4.6	7

47	Highly simplified blue phosphorescent organic light-emitting diodes incorporating exciplex-forming co-host assisting energy transfer. *Journal of Luminescence*, **2019**, 206, 554-559	3.8	8
46	The role of fluorine-substitution on the bridge in constructing effective thermally activated delayed fluorescence molecules. *Journal of Materials Chemistry C*, **2018**, 6, 5536-5541	7.1	24
45	A blue thermally activated delayed fluorescence emitter developed by appending a fluorene moiety to a carbazole donor with meta-linkage for high-efficiency OLEDs. *Materials Chemistry Frontiers*, **2018**, 2, 917-922	7.8	31
44	Tilted Spiro-Type Thermally Activated Delayed Fluorescence Host for 100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. *Advanced Functional Materials*, **2018**, 28, 1706228	15.6	54
43	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. *Angewandte Chemie - International Edition*, **2018**, 57, 2889-2893	16.4	213
42	Naphthalene-based host materials for highly efficient red phosphorescent OLEDs at low doping ratios. *Organic Electronics*, **2018**, 54, 140-147	3.5	12
41	Solution processable small molecule based organic light-emitting devices prepared by dip-coating method. *Organic Electronics*, **2018**, 55, 1-5	3.5	8
40	Efficient OLEDs with saturated yellow and red emission based on rigid tetradentate Pt(II) complexes. *Organic Electronics*, **2018**, 62, 542-547	3.5	12
39	Smart OLED Lighting on Electrochromic Glass. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800102	1.6	4
38	Thermally activated delayed fluorescence sensitizer for DA type emitters with orange-red light emission. *Journal of Materials Chemistry C*, **2018**, 6, 10030-10035	7.1	12
37	Management of excitons for highly efficient organic light-emitting diodes with reduced triplet exciton quenching: synergistic effects of exciplex and quantum well structure. *Journal of Materials Chemistry C*, **2018**, 6, 342-349	7.1	23
36	Blue-to-green electrophosphorescence from iridium(III) complexes with cyclometalated pyrimidine ligands. *Dyes and Pigments*, **2018**, 150, 284-292	4.6	17
35	Simplified efficient warm white tandem organic light-emitting devices by ultrathin emitters using energy transfer from exciplexes. *Organic Electronics*, **2018**, 63, 369-375	3.5	23
34	A Novel Linking Strategy of Using 9,10-Dihydroacridine to Construct Efficient Host Materials for Red Phosphorescent Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2018**, 24, 11755-11762	4.8	6
33	P-164: Energy Transfer from Interface Exciplexes to Ultrathin Emissive Layers: A Path Way to Design Simplified Efficient White Tandem Organic Light-Emitting Diodes for Application. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1779-1781	0.5	5
32	Improved performance of inverted planar perovskite solar cells with F4-TCNQ doped PEDOT:PSS hole transport layers. *Journal of Materials Chemistry A*, **2017**, 5, 5701-5708	13	163
31	Highly Simplified Tandem Organic Light-Emitting Devices Incorporating a Green Phosphorescence Ultrathin Emitter within a Novel Interface Exciplex for High Efficiency. *ACS Applied Materials & Interfaces*, **2017**, 9, 10955-10962	9.5	48
30	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. *Organic Letters*, **2017**, 19, 3155-3158	6.2	40

29	Aminoborane-based bipolar host material for blue and white-emitting electrophosphorescence devices. *Organic Electronics*, **2017**, 48, 112-117	3.5	11
28	White Organic LED with a Luminous Efficacy Exceeding 100 lm W⁻¹ without Light Out-Coupling Enhancement Techniques. *Advanced Functional Materials*, **2017**, 27, 1701314	15.6	134
27	Cu-Doped nickel oxide prepared using a low-temperature combustion method as a hole-injection layer for high-performance OLEDs. *Journal of Materials Chemistry C*, **2017**, 5, 11751-11757	7.1	26
26	D□□-Type Emitter Featuring Benzo[c][1,2,5]thiadiazole and Polar C?N Bond as Tandem Acceptor for High-Performance Near-Infrared Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2017**, 5, 1700566	8.1	14
25	Thermally activated delayed fluorescence-based tandem OLEDs with very high external quantum efficiency. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1700240	1.6	8
24	A novel electron-acceptor moiety as a building block for efficient donor-acceptor based fluorescent organic lighting-emitting diodes. *Chemical Communications*, **2016**, 53, 263-265	5.8	19
23	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiro-Based Skeleton for High Power Efficiency and Low Roll-Off Blue and White Phosphorescent Devices. *Advanced Functional Materials*, **2016**, 26, 7929-7936	15.6	74
22	De Novo Design of Boron-Based Host Materials for Highly Efficient Blue and White Phosphorescent OLEDs with Low Efficiency Roll-Off. *ACS Applied Materials & Interfaces*, **2016**, 8, 20230-6	9.5	38
21	Highly Efficient White Organic Light-Emitting Diodes with Ultrathin Emissive Layers and a Spacer-Free Structure. *Scientific Reports*, **2016**, 6, 25821	4.9	52
20	Charge transport dependent high open circuit voltage tandem organic photovoltaic cells with low temperature deposited HATCN-based charge recombination layers. *Physical Chemistry Chemical Physics*, **2016**, 18, 4045-50	3.6	3
19	Tandem Organic Light-Emitting Diodes. *Advanced Materials*, **2016**, 28, 10381-10408	24	86
18	A multifunctional phosphine oxide-diphenylamine hybrid compound as a high performance deep-blue fluorescent emitter and green phosphorescent host. *Chemical Communications*, **2014**, 50, 2027-9	5.8	49
17	Charge-Transfer Complexes: Charge-Transfer Complexes and Their Role in Exciplex Emission and Near-Infrared Photovoltaics (Adv. Mater. 31/2014). *Advanced Materials*, **2014**, 26, 5226-5226	24	3
16	Charge-transfer complexes and their role in exciplex emission and near-infrared photovoltaics. *Advanced Materials*, **2014**, 26, 5569-74	24	48
15	Low-cost solar cell based on a composite of silicon nanowires and a highly conductive nonphotoactive polymer. *Chemistry - A European Journal*, **2013**, 19, 17273-6	4.8	4
14	Novel Blue Fluorophor with High Triplet Energy Level for High Performance Single-Emitting-Layer Fluorescence and Phosphorescence Hybrid White Organic Light-Emitting Diodes. *Chemistry of Materials*, **2013**, 25, 4454-4459	9.6	58
13	Novel efficient blue fluorophors with small singlet-triplet splitting: hosts for highly efficient fluorescence and phosphorescence hybrid WOLEDs with simplified structure. *Advanced Materials*, **2013**, 25, 2205-11	24	197
12	Carbazole/Sulfone Hybrid D-□A-Structured Bipolar Fluorophores for High-Efficiency Blue-Violet Electroluminescence. *Chemistry of Materials*, **2013**, 25, 2630-2637	9.6	167

11	Multifunctional electron-transporting indolizine derivatives for highly efficient blue fluorescence, orange phosphorescence host and two-color based white OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 4502		147
10	New Ambipolar Hosts Based on Carbazole and 4,5-Diazafluorene Units for Highly Efficient Blue Phosphorescent OLEDs with Low Efficiency Roll-Off. *Chemistry of Materials*, **2012**, 24, 643-650	9.6	85
9	Near-Infrared Electric Power Generation Through Sub-Energy-Gap Absorption in an Organic□horganic Composite. *Advanced Functional Materials*, **2012**, 22, 3035-3042	15.6	26
8	Management of singlet and triplet excitons in a single emission layer: a simple approach for a high-efficiency fluorescence/phosphorescence hybrid white organic light-emitting device. *Advanced Materials*, **2012**, 24, 3410-4	24	215
7	White OLEDs: Management of Singlet and Triplet Excitons in a Single Emission Layer: A Simple Approach for a High-Efficiency Fluorescence/Phosphorescence Hybrid White Organic Light-Emitting Device (Adv. Mater. 25/2012). *Advanced Materials*, **2012**, 24, 3290-3290	24	1
6	Efficient blue organic light-emitting devices with a new bipolar emitter. *Organic Electronics*, **2011**, 12, 358-363	3.5	28
5	Interface studies of intermediate connectors and their roles in tandem OLEDs. *Journal of Materials Chemistry*, **2010**, 20, 2539-2548		49
4	Metal/Polymer Interface Studies for Organic Light-Emitting Devices **2005**, 181-214		1
3	Interfaces between poly(9,9-dioctylfluorene) and alkali metals as affected by molecular weight and oxygen **2002**, 4464, 232		1
2	Mechanical properties of amorphous carbon nitride films synthesized by electron cyclotron resonance microwave plasma chemical vapor deposition. *Journal of Non-Crystalline Solids*, **1999**, 254, 180-185	3.9	18
1	High-Efficiency Top-Emitting Green Perovskite Light Emitting Diode with Quasi Lambertian Emission. *Advanced Optical Materials*,2101137	8.1	0