

Chih-Hao Chang

List of Publications by Year in descending order

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83
papers

3,742
citations

117625

34
h-index

128289

60
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88
all docs

88
docs citations

88
times ranked

2763
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue-Emitting Heteroleptic Iridium(III) Complexes Suitable for High-Efficiency Phosphorescent OLEDs. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2418-2421.	13.8	396
2	Highly Efficient Blue-Emitting Iridium(III) Carbene Complexes and Phosphorescent OLEDs. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4542-4545.	13.8	382
3	En Route to High External Quantum Efficiency ($\sim 12\%$), Organic True-Blue-Light-Emitting Diodes Employing Novel Design of Iridium (III) Phosphors. <i>Advanced Materials</i> , 2009, 21, 2221-2225.	21.0	195
4	Iridium(III) Complexes of a Dicyclopentylphosphite Tripod Ligand: Strategy to Achieve Blue Phosphorescence Without Fluorine Substituents and Fabrication of OLEDs. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3182-3186.	13.8	128
5	Enhancing light outcoupling of organic light-emitting devices by locating emitters around the second antinode of the reflective metal electrode. <i>Applied Physics Letters</i> , 2006, 88, 081114.	3.3	125
6	A dicarbazole-triazine hybrid bipolar host material for highly efficient green phosphorescent OLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 3832.	6.7	116
7	Enhanced electroluminescence based on thermally activated delayed fluorescence from a carbazole-triazine derivative. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15850.	2.8	115
8	A diarylborane-substituted carbazole as a universal bipolar host material for highly efficient electrophosphorescence devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 870-876.	6.7	96
9	A New Class of Sky-Blue-Emitting Ir(III) Phosphors Assembled Using Fluorine-Free Pyridyl Pyrimidine Cyclometalates: Application toward High-Performance Sky-Blue- and White-Emitting OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7341-7351.	8.0	90
10	Pt(II) Metal Complexes Tailored with a Newly Designed Spiro-Arranged Tetradentate Ligand; Harnessing of Charge-Transfer Phosphorescence and Fabrication of Sky Blue and White OLEDs. <i>Inorganic Chemistry</i> , 2015, 54, 4029-4038.	4.0	87
11	Efficient phosphorescent white OLEDs with high color rendering capability. <i>Organic Electronics</i> , 2010, 11, 412-418.	2.6	83
12	Optically Triggered Planarization of Boryl-Substituted Phenoxazine: Another Horizon of TADF Molecules and High-Performance OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12886-12896.	8.0	75
13	High-color-rendering pure-white phosphorescent organic light-emitting devices employing only two complementary colors. <i>Organic Electronics</i> , 2010, 11, 266-272.	2.6	72
14	Blue-emitting Ir(III) phosphors with 2-pyridyl triazolone chromophores and fabrication of sky blue- and white-emitting OLEDs. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2639.	5.5	69
15	Bis-Tridentate Iridium(III) Phosphors Bearing Functional 2-Phenyl-6-(imidazol-2-ylidene)pyridine and 2-(Pyrazol-3-yl)-6-phenylpyridine Chelates for Efficient OLEDs. <i>Organometallics</i> , 2016, 35, 1813-1824.	2.3	63
16	Fourfold power efficiency improvement in organic light-emitting devices using an embedded nanocomposite scattering layer. <i>Organic Electronics</i> , 2012, 13, 1073-1080.	2.6	58
17	Heteroleptic Ir(III) phosphors with bis-tridentate chelating architecture for high efficiency OLEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3460-3471.	5.5	55
18	First N-Borylated Emitters Displaying Highly Efficient Thermally Activated Delayed Fluorescence and High-Performance OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27090-27101.	8.0	54

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19	Efficient phosphorescent white organic light-emitting devices incorporating blue iridium complex and multifunctional orange-red osmium complex. <i>Organic Electronics</i> , 2009, 10, 1235-1240.	2.6	53
20	Phosphorescent OLEDs assembled using Os(ii) phosphors and a bipolar host material consisting of both carbazole and dibenzophosphole oxide. <i>Journal of Materials Chemistry</i> , 2012, 22, 10684.	6.7	53
21	Unprecedented Homoleptic Bis-Tridentate Iridium(III) Phosphors: Facile, Scaled-Up Production, and Superior Chemical Stability. <i>Advanced Functional Materials</i> , 2017, 27, 1702856.	14.9	53
22	Near infrared-emitting tris-bidentate Os(ii) phosphors: control of excited state characteristics and fabrication of OLEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4910-4920.	5.5	52
23	Sky-blue aggregation-induced emission molecules for non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6054-6060.	5.5	49
24	Isomeric spiro-[acridine-9,9'-fluorene]-2,6-dipyridylpyrimidine based TADF emitters: insights into photophysical behaviors and OLED performances. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10088-10100.	5.5	46
25	Enhancing device efficiencies of solid-state white light-emitting electrochemical cells by employing waveguide coupling. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5665-5673.	5.5	45
26	Efficient iridium(III) based, true-blue emitting phosphorescent OLEDs employing both double emission and double buffer layers. <i>Organic Electronics</i> , 2009, 10, 1364-1371.	2.6	44
27	Phenyl- and Pyrazolyl-Functionalized Pyrimidine: Versatile Chromophore of Bis-Tridentate Ir(III) Phosphors for Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2019, 31, 6453-6464.	6.7	44
28	Solid-state light-emitting electrochemical cells employing phosphor-sensitized fluorescence. <i>Journal of Materials Chemistry</i> , 2010, 20, 5521.	6.7	43
29	Highly efficient blue and deep-blue emitting zwitterionic iridium(iii) complexes: synthesis, photophysics and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2569.	5.5	42
30	Luminescent Pt(II) complexes featuring imidazolylidene-pyridylidene and dianionic bipyrazolate: from fundamentals to OLED fabrications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1420-1435.	5.5	37
31	Ir(III)-Based Phosphors with Bipyrazolate Ancillaries; Rational Design, Photophysics, and Applications in Organic Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2015, 54, 10811-10821.	4.0	36
32	Os(II) metal phosphors bearing tridentate 2,6-di(pyrazol-3-yl)pyridine chelate: synthetic design, characterization and application in OLED fabrication. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6269.	5.5	34
33	Phenanthro[9,10-d]imidazole based new host materials for efficient red phosphorescent OLEDs. <i>Dyes and Pigments</i> , 2017, 137, 615-621.	3.7	34
34	Luminescent Diiridium Complexes with Bridging Pyrazolates: Characterization and Fabrication of OLEDs Using Vacuum Thermal Deposition. <i>Advanced Optical Materials</i> , 2018, 6, 1800083.	7.3	34
35	Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1084-1093.	8.0	31
36	Efficient donor-acceptor-donor boronated compounds with extremely small τ_{EST} for thermally activated delayed fluorescence OLEDs. <i>Organic Electronics</i> , 2018, 63, 166-174.	2.6	30

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37	Multifunctional carbazolocarbazoles as hole transporting and emitting host materials in red phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3421.	5.5	29
38	Combinational Approach To Realize Highly Efficient Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14254-14264.	8.0	28
39	Controlling through-space and through-bond intramolecular charge transfer in bridged Dâ€²A TADF emitters. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8819-8833.	5.5	27
40	Solid-state white light-emitting electrochemical cells based on scattering red color conversion layers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12492-12498.	5.5	26
41	Thiazoline Carbeneâ€²Cu(I)â€²Amide complexes: Efficient White Electroluminescence from Combined Monomer and Excimer Emission. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15478-15493.	8.0	25
42	Using lithium carbonate-based electron injection structures in high-performance inverted organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13123-13128.	2.8	21
43	Facile Generation of Thermally Activated Delayed Fluorescence and Fabrication of Highly Efficient Nonâ€²Doped OLEDs Based on Triazine Derivatives. <i>Chemistry - A European Journal</i> , 2019, 25, 16699-16711.	3.3	21
44	Triarylboryl-substituted carbazoles as bipolar host materials for efficient green phosphorescent organic light-emitting devices. <i>Dyes and Pigments</i> , 2019, 163, 145-152.	3.7	21
45	Aligned energy-level design for decreasing operation voltage of tandem white organic light-emitting diodes. <i>Thin Solid Films</i> , 2013, 548, 389-397.	1.8	20
46	Enhancing extracted electroluminescence from light-emitting electrochemical cells by employing high-refractive-index substrates. <i>Organic Electronics</i> , 2017, 51, 149-155.	2.6	20
47	Highly efficient blue and white light-emitting electrochemical cells employing substrates containing embedded diffusive layers. <i>Organic Electronics</i> , 2020, 77, 105515.	2.6	20
48	Dicyano-Imidazole-Based Host Materials Possessing a Balanced Bipolar Nature To Realize Efficient OLEDs with Extremely High Luminance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20410-20423.	3.1	20
49	Naphthyl substituted triphenylamine derivatives as hole transporting materials for efficient red PhOLEDs. <i>Dyes and Pigments</i> , 2019, 162, 196-202.	3.7	19
50	Dicyanoâ€²imidazole: A Facile Generation of Pure Blue TADF Materials for OLEDs. <i>Chemistry - A European Journal</i> , 2021, 27, 12998-13008.	3.3	19
51	Achieving three-peak white organic light-emitting devices using wavelength-selective mirror electrodes. <i>Applied Physics Letters</i> , 2008, 92, 123303.	3.3	18
52	Ga-doped TiZnO transparent conductive oxide used as an alternative anode in blue, green, and red phosphorescent OLEDs. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19618-19624.	2.8	18
53	Aggregation-induced emission tetraphenylethene type derivatives for blue tandem organic light-emitting diodes. <i>Organic Electronics</i> , 2019, 67, 279-286.	2.6	16
54	Efficient red, green, blue and white organic light-emitting diodes with same exciplex host. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03CD02.	1.5	15

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55	Highly efficient flexible organic light-emitting diodes based on a high-temperature durable mica substrate. <i>Organic Electronics</i> , 2019, 75, 105442.	2.6	14
56	Carbazole/triphenylamine-cyanobenzimidazole hybrid bipolar host materials for green phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2021, 92, 106090.	2.6	14
57	Imidazolyl-Phenylcarbazole-Based Host Materials and Their Use for Co-host Designs in Phosphorescent OLEDs. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	14
58	Naphthyl or pyrenyl substituted 2-phenylcarbazoles as hole transporting materials for organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 136, 302-311.	3.7	13
59	Role of the Diphosphine Chelate in Emissive, Charge-Neutral Iridium(III) Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 624-635.	3.3	12
60	Pure exciplex-based white organic light-emitting diodes with imitation daylight emissions. <i>RSC Advances</i> , 2018, 8, 30582-30588.	3.6	12
61	Approach to Fast Screen the Formation of an Exciplex. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10175-10184.	3.1	11
62	Mo-doped GZO films used as anodes or cathodes for highly efficient flexible blue, green and red phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12048-12055.	5.5	10
63	A Method to Realize Efficient Deep-Red Phosphorescent OLEDs with a Broad Spectral Profile and Low Operating Voltages. <i>Materials</i> , 2021, 14, 5723.	2.9	10
64	Triphenylethene-carbazole-based molecules for the realization of blue and white aggregation-induced emission OLEDs with high luminance. <i>Organic Electronics</i> , 2022, 108, 106571.	2.6	8
65	(Bi)phenyl substituted 9-(2,2-diphenylvinyl)carbazoles as low cost hole transporting materials for efficient red PhOLEDs. <i>Dyes and Pigments</i> , 2018, 159, 173-178.	3.7	7
66	An alternative composite electrode for efficient organic light-emitting diodes. <i>Organic Electronics</i> , 2020, 85, 105844.	2.6	7
67	Flexible light-emitting electrochemical cells on muscovite mica substrates. <i>Organic Electronics</i> , 2021, 96, 106218.	2.6	7
68	Carbazole-pyridine pyrroloquinoxaline/benzothiadiazine 1,1-dioxide based bipolar hosts for efficient red PhOLEDs. <i>Organic Electronics</i> , 2021, 96, 106217.	2.6	7
69	Efficient blue and green phosphorescent OLEDs with host material containing electronically isolated carbazolyl fragments. <i>Optical Materials</i> , 2018, 79, 446-449.	3.6	5
70	Realizing performance improvement of borylated TADF materials for OLEDs. <i>Dyes and Pigments</i> , 2022, 197, 109892.	3.7	5
71	Harnessing bipolar acceptors for highly efficient exciplex-forming systems. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4748-4756.	5.5	5
72	Design and Synthesis of Novel Phenothiazine-Benzothiadiazine 1,1-dioxide Hybrid Organic Material for OLED Applications. <i>ChemistrySelect</i> , 2021, 6, 11029-11038.	1.5	4

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73	Electrochemical and resonance Raman studies of nitridomanganese(V) porphyrins in nonaqueous solution. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 674-681.	0.8	2
74	64.3: High Efficiency Phosphorescent White OLEDs Using Red-Emitting Osmium Complex and Blue-Emitting Iridium Complex. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 1772-1775.	0.3	2
75	35.4: Enhancing Light Outcoupling of Organic Light-Emitting Devices by Locating Emitters around the Second Antinode of the Reflective Metal Electrode. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 1380.	0.3	1
76	P˜: Efficient Blue Phosphorescent OLEDs Employing Novel Oligocarbazoles as High-Triplet Energy Host Materials. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 772-775.	0.3	1
77	P: Architecture Design for Efficient True-Blue Phosphorescent OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2008, 39, 2005-2007.	0.3	1
78	Improving the efficiency of white OLEDs based on a gradient refractive index substrate. , 2015, , .		1
79	Production of efficient exciplex-based red, green, blue and white organic light-emitting diodes. , 2015, , .		1
80	29.1: 200 cd/A Microcavity Two-Unit Tandem Organic Light-Emitting Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 1284.	0.3	0
81	P: Efficient White OLEDs Employing Phosphorescent Sensitization. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 780-783.	0.3	0
82	25.2: Achieving Three-Peak White Organic Light-Emitting Devices Using Wavelength-Selective Mirror Electrodes. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 1110-1113.	0.3	0
83	Efficient red phosphorescent OLEDs employing 2-phenylcarbazoles-based hole transport materials. , 2016, , .		0