

Hong-Tao Cao

List of Publications by Year in descending order

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36
papers

1,000
citations

430874

18
h-index

414414

32
g-index

37
all docs

37
docs citations

37
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	A cationic iridium(ⁱⁱⁱ) complex with aggregation-induced emission (AIE) properties for highly selective detection of explosives. <i>Chemical Communications</i> , 2014, 50, 6031-6034.	4.1	115
2	Controllable synthesis of iridium(iii)-based aggregation-induced emission and/or piezochromic luminescence phosphors by simply adjusting the substitution on ancillary ligands. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1440.	5.5	107
3	Reversible piezochromic behavior of two new cationic iridium(iii) complexes. <i>Chemical Communications</i> , 2012, 48, 2000.	4.1	93
4	Iridium(iii) complexes adopting 1,2-diphenyl-1H-benzimidazole ligands for highly efficient organic light-emitting diodes with low efficiency roll-off and non-doped feature. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2150.	5.5	78
5	An orange iridium(iii) complex with wide-bandwidth in electroluminescence for fabrication of high-quality white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7371.	5.5	52
6	Effect of alkyl chain length on piezochromic luminescence of iridium(ⁱⁱⁱ)-based phosphors adopting 2-phenyl-1H-benzimidazole type ligands. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7648-7655.	5.5	47
7	Efficient non-doped phosphorescent orange, blue and white organic light-emitting devices. <i>Scientific Reports</i> , 2014, 4, 6754.	3.3	40
8	Simultaneous modification of N-alkyl chains on cyclometalated and ancillary ligands of cationic iridium(iii) complexes towards efficient piezochromic luminescence properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2341-2349.	5.5	37
9	Stepwise modulation of the electron-donating strength of ancillary ligands: understanding the AIE mechanism of cationic iridium(ⁱⁱⁱ) complexes. <i>Chemical Communications</i> , 2014, 50, 10986-10989.	4.1	36
10	Modification of iridium(III) complexes for fabrication of high-performance non-doped organic light-emitting diode. <i>Dyes and Pigments</i> , 2015, 112, 8-16.	3.7	32
11	Enhancing the luminescence properties and stability of cationic iridium(iii) complexes based on phenylbenzimidazole ligand: a combined experimental and theoretical study. <i>Dalton Transactions</i> , 2013, 42, 11056.	3.3	28
12	Progress in fluorene-based wide-bandgap steric semiconductors. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 155-170.	3.8	27
13	Efficient piezochromic luminescence from tetraphenylethene functionalized pyridine-azole derivatives exhibiting aggregation-induced emission. <i>Dyes and Pigments</i> , 2015, 119, 62-69.	3.7	23
14	Influence of alkyl chain lengths on the properties of iridium(III)-based piezochromic luminescent dyes with triazole-pyridine type ancillary ligands. <i>Dyes and Pigments</i> , 2013, 99, 1082-1090.	3.7	22
15	Intramolecular π -Stacking in Cationic Iridium(III) Complexes with Phenyl-Functionalized Cyclometalated Ligands: Synthesis, Structure, Photophysical Properties, and Theoretical Studies. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2376-2382.	2.0	22
16	Excimer-based white electroluminescence from supramolecular bulk effects of dumbbell-shaped molecules via attractor-repulsor molecular design. <i>Organic Electronics</i> , 2017, 43, 87-95.	2.6	21
17	Efficient greenish-blue phosphorescent iridium(III) complexes containing carbene and triazole chromophores for organic light-emitting diodes. <i>Journal of Organometallic Chemistry</i> , 2014, 753, 55-62.	1.8	20
18	Novel electron acceptor based on spiro[fluorene-9,9'-xanthene] for exciplex thermally activated delayed fluorescence. <i>Dyes and Pigments</i> , 2018, 149, 422-429.	3.7	19

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19	Variable segment roles: modulation of the packing modes, nanocrystal morphologies and optical emissions. <i>Nanoscale</i> , 2018, 10, 13310-13314.	5.6	18
20	A sulfur-free iridium(III) complex for highly selective and multi-signaling mercury(II)-chemosensors. <i>Dalton Transactions</i> , 2015, 44, 19997-20003.	3.3	17
21	An eco-friendly water-assisted polyol method to enhance the aspect ratio of silver nanowires. <i>RSC Advances</i> , 2019, 9, 1933-1938.	3.6	17
22	A series of coordination compounds containing rigid multi-pyridine based ligands: syntheses, structures and properties. <i>CrystEngComm</i> , 2014, 16, 2754.	2.6	16
23	A 9-fluorenyl substitution strategy for aromatic-imide-based TADF emitters towards efficient and stable sky blue OLEDs with nearly 30% external quantum efficiency. <i>Materials Advances</i> , 2021, 2, 4000-4008.	5.4	16
24	Synthesis, structure and photophysical properties of cationic Ir(III) complexes with functionalized 1,10-phenanthroline ancillary ligands. <i>Journal of Organometallic Chemistry</i> , 2012, 713, 20-26.	1.8	15
25	Manipulating efficiencies through modification of N-heterocyclic phenyltriazole ligands for blue iridium(III) complexes. <i>Dyes and Pigments</i> , 2015, 113, 655-663.	3.7	11
26	Simultaneous and Significant Improvements in Efficiency and Stability of Deep-Blue Organic Light Emitting Diodes through Friedel-Crafts Arylmethylation of a Fluorophore. <i>ChemPhotoChem</i> , 2020, 4, 321-326.	3.0	11
27	Friedel-Crafts arylmethylation: A simple approach to synthesize bipolar host materials for efficient electroluminescence. <i>Organic Electronics</i> , 2016, 38, 370-378.	2.6	10
28	Enhanced quantum efficiency of cationic iridium(III) complexes with carbazole moiety as a steric hindrance unit. <i>Journal of Molecular Structure</i> , 2012, 1026, 59-64.	3.6	9
29	Manipulating phosphorescence efficiencies of orange iridium(III) complexes through ancillary ligand control. <i>Dyes and Pigments</i> , 2019, 160, 119-127.	3.7	9
30	Highly efficient exciplex-emission from spiro[fluorene-9,9'-xanthene] derivatives. <i>Dyes and Pigments</i> , 2021, 185, 108894.	3.7	9
31	Tetracyano-substituted spiro[fluorene-9,9'-xanthene] as electron acceptor for exciplex thermally activated delayed fluorescence. <i>Journal of Molecular Structure</i> , 2019, 1196, 132-138.	3.6	8
32	An eco-friendly nitrate-free method for the synthesis of silver nanowires with reduced diameters. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1874-1879.	5.5	6
33	Tuning stimulated emission properties of oligofluorene-based gain media via non-conjugation strategy. <i>Dyes and Pigments</i> , 2021, 186, 109037.	3.7	4
34	Excellent Charge-Storage Properties of Polystyrene/SFXs Electret Films by Repeated Contact with an AFM Probe. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700611.	1.5	3
35	Selective Introduction of Carbazole and Diphenylamine into Spirofluorenexanthene Core for Different Phosphorescent Hosts. <i>Chinese Journal of Chemistry</i> , 2016, 34, 771-777.	4.9	2
36	Simultaneous and Significant Improvements in Efficiency and Stability of Deep-Blue Organic Light Emitting Diodes through Friedel-Crafts Arylmethylation of a Fluorophore. <i>ChemPhotoChem</i> , 2020, 4, 318-318.	3.0	0