

Zheng-Guang Wu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Peripheral Amplification of Multi-Resonance Induced Thermally Activated Delayed Fluorescence for Highly Efficient OLEDs. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11316-11320.	13.8	314
2	Rational design of phosphorescent iridium(III) complexes for emission color tunability and their applications in OLEDs. <i>Coordination Chemistry Reviews</i> , 2018, 374, 55-92.	18.8	240
3	Enantiomorphic Perovskite Ferroelectrics with Circularly Polarized Luminescence. <i>Journal of the American Chemical Society</i> , 2020, 142, 4756-4761.	13.7	208
4	Chiral Octahydro-Binaphthol Compound-Based Thermally Activated Delayed Fluorescence Materials for Circularly Polarized Electroluminescence with Superior EQE of 32.6% and Extremely Low Efficiency Roll-Off. <i>Advanced Materials</i> , 2019, 31, e1900524.	21.0	198
5	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. <i>Journal of the American Chemical Society</i> , 2020, 142, 17756-17765.	13.7	174
6	Electrochemically Promoted Nickel-Catalyzed Carbon-Sulfur Bond Formation. <i>ACS Catalysis</i> , 2019, 9, 1630-1634.	11.2	114
7	Configurational Stable Platinahelicene Enantiomers for Efficient Circularly Polarized Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019, 25, 5672-5676.	3.3	98
8	Organic Room-Temperature Phosphorescence with Strong Circularly Polarized Luminescence Based on Paracyclophanes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17220-17225.	13.8	97
9	Peripheral Amplification of Multi-Resonance Induced Thermally Activated Delayed Fluorescence for Highly Efficient OLEDs. <i>Angewandte Chemie</i> , 2018, 130, 11486-11490.	2.0	77
10	Functional two-dimensional black phosphorus nanostructures towards next-generation devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12433-12473.	10.3	73
11	Axially Chiral Biphenyl Compound-Based Thermally Activated Delayed Fluorescent Materials for High-Performance Circularly Polarized Organic Light-Emitting Diodes. <i>Advanced Science</i> , 2020, 7, 2000804.	11.2	71
12	Alkyl Carbazates for Electrochemical Deoxygenative Functionalization of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10859-10863.	13.8	66
13	Leaving Group Assisted Strategy for Photoinduced Fluoroalkylations Using <i>N</i> -Hydroxybenzimidoyl Chloride Esters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 624-627.	13.8	60
14	Semitransparent Circularly Polarized Phosphorescent Organic Light-Emitting Diodes with External Quantum Efficiency over 30% and Dissymmetry Factor Close to 10^2 . <i>Advanced Functional Materials</i> , 2021, 31, 2102898.	14.9	60
15	Non-doped and doped circularly polarized organic light-emitting diodes with high performances based on chiral octahydro-binaphthyl delayed fluorescent luminophores. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7045-7052.	5.5	56
16	Multicolor Circularly Polarized Photoluminescence and Electroluminescence with 1,2-Diaminecyclohexane Enantiomers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23172-23180.	8.0	48
17	Efficient Circularly Polarized Electroluminescence from Chiral Thermally Activated Delayed Fluorescence Emitters Featuring Symmetrical and Rigid Coplanar Acceptors. <i>Advanced Optical Materials</i> , 2021, 9, 2100017.	7.3	46
18	Fast Synthesis of Iridium(III) Complexes Incorporating a Bis(diphenylphosphorothioyl)amide Ligand for Efficient Pure Green OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7184-7191.	8.0	45

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19	Pure Red Iridium(III) Complexes Possessing Good Electron Mobility with 1,5-Naphthyridin-4-ol Derivatives for High-Performance OLEDs with an EQE over 31%. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20192-20199.	8.0	37
20	Integrated redox-active reagents for photoinduced regio- and stereoselective fluorocarbonylation. <i>Nature Communications</i> , 2020, 11, 2572.	12.8	36
21	Novel Design of Iridium Phosphors with Pyridinylphosphinate Ligands for High-Efficiency Blue Organic Light-emitting Diodes. <i>Scientific Reports</i> , 2016, 6, 38478.	3.3	35
22	Visible-Light-Mediated Click Chemistry for Highly Regioselective Azide-Alkyne Cycloaddition by a Photoredox Electron-Transfer Strategy. <i>Chemistry - A European Journal</i> , 2020, 26, 5694-5700.	3.3	35
23	Photocatalyzed cascade oxidative annulation of propargylamines and phosphine oxides. <i>Chemical Communications</i> , 2017, 53, 6637-6640.	4.1	33
24	Organic Room-Temperature Phosphorescence with Strong Circularly Polarized Luminescence Based on Paracyclophanes. <i>Angewandte Chemie</i> , 2019, 131, 17380-17385.	2.0	27
25	FeCl ₃ -promoted formation of C-C bonds: synthesis of substituted quinolines from imines and electron-deficient alkynes. <i>Tetrahedron</i> , 2014, 70, 8971-8975.	1.9	26
26	Highly efficient green and red electroluminescence with an extremely low efficiency roll-off based on iridium(III) complexes containing a bis(diphenylphosphorothioyl)amide ancillary ligand. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2570-2576.	5.5	24
27	Iridium(III) phosphors with bis(diphenylphosphorothioyl)amide ligand for efficient green and sky-blue OLEDs with EQE of nearly 28%. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9010-9016.	5.5	23
28	Solvent controlled radical cyclization of propargylamines for multi-iodinated quinoline formation. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6901-6904.	2.8	21
29	Pyridinylphosphorothioate-based blue iridium(III) complex with double chiral centers for circularly polarized electroluminescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5244-5249.	5.5	21
30	Efficient orange-red electroluminescence of iridium complexes with 1-(2,6-bis(trifluoromethyl)pyridin-4-yl)isoquinoline and 4-(2,6-bis(trifluoromethyl)pyridin-4-yl)quinazoline ligands. <i>Dalton Transactions</i> , 2017, 46, 14916-14925.	3.3	19
31	Highly efficient yellow electroluminescence of iridium complexes with good electron mobility. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1284-1290.	5.9	19
32	Recent Application of Chiral Aryliodine Based on the 2-Iodoresorcinol Core in Asymmetric Catalysis. <i>Synthesis</i> , 2021, 53, 889-903.	2.3	18
33	Redox-active benzimidazolium sulfonamides as cationic thiolating reagents for reductive cross-coupling of organic halides. <i>Chemical Science</i> , 2021, 12, 2509-2514.	7.4	18
34	Syntheses, Crystal Structures, and Photoluminescence of a Series of Iridium(III) Complexes Containing the Pentafluorosulfanyl Group. <i>Organometallics</i> , 2019, 38, 3553-3559.	2.3	17
35	Suppression of efficiency roll-off in highly efficient blue phosphorescent organic light-emitting devices using novel iridium phosphors with good electron mobility. <i>Organic Electronics</i> , 2017, 42, 141-145.	2.6	16
36	Leaving Group Assisted Strategy for Photoinduced Fluoroalkylations Using N-Hydroxybenzimidoyl Chloride Esters. <i>Angewandte Chemie</i> , 2019, 131, 634-637.	2.0	16

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37	Highly efficient bluish green organic light-emitting diodes of iridium(ⁱⁱⁱ) complexes with low efficiency roll-off. Dalton Transactions, 2018, 47, 7587-7593.	3.3	15
38	Molecular self-induced configuration for improving dissymmetry factors in tetradentate platinum(II) enantiomers cycloaddition. Chinese Chemical Letters, 2022, 33, 1459-1462.	9.0	15
39	Alkyl Carbazates for Electrochemical Deoxygenative Functionalization of Heteroarenes. Angewandte Chemie, 2020, 132, 10951-10955.	2.0	14
40	Efficient circularly polarized thermally activated delayed fluorescence hetero-[4]helicene with carbonyl-/sulfone-bridged triarylamine structures. Journal of Materials Chemistry C, 2022, 10, 4393-4401.	5.5	14
41	Synthesis, photoluminescence and electroluminescence of one iridium complex with 2-(2,4-difluorophenyl)-4-(trifluoromethyl)pyrimidine and tetraphenylimidodiphosphinate ligands. Journal of Organometallic Chemistry, 2017, 848, 226-231.	1.8	13
42	Construction and Properties of Octahydrobinaphthol-based Chiral Luminescent Materials with Large Steric Hindrance. Acta Chimica Sinica, 2021, 79, 1401.	1.4	13
43	Two Green-Phosphorescent Iridium Complexes with 2-Phenylpyrimidine Derivatives and Tetraphenylimidodiphosphinate for Efficient Organic Light-Emitting Diodes. European Journal of Inorganic Chemistry, 2016, 2016, 2556-2561.	2.0	12
44	Green-emitting iridium(III) complexes containing pyridine sulfonic acid as ancillary ligands for efficient OLEDs with extremely low efficiency roll-off. Journal of Materials Chemistry C, 2019, 7, 11606-11611.	5.5	12
45	Green iridium complexes based on pyrimidine derivatives for efficient electroluminescence with EQE near 30%. Dyes and Pigments, 2019, 160, 863-871.	3.7	12
46	An Efficient Approach for 3,3-Disubstituted Oxindoles Synthesis: Aryl Iodine Catalyzed Intramolecular C-N Bond Oxidative Cross-Coupling. Organic Letters, 2021, 23, 8750-8754.	4.6	12
47	The Taiji and Eight Trigrams chemistry philosophy of chiral iridium(ⁱⁱⁱ) complexes with triplex stereogenic centers. Dalton Transactions, 2018, 47, 4045-4048.	3.3	11
48	Efficient green photoluminescence and electroluminescence of iridium complexes with high electron mobility. Dalton Transactions, 2018, 47, 16543-16550.	3.3	10
49	DABCO as a practical catalyst for aromatic halogenation with <i>N</i> -halosuccinimides. RSC Advances, 2022, 12, 7115-7119.	3.6	10
50	A novel atom-economic synthesis of functionalized imidazolidines through copper(I)-catalyzed domino three-component coupling and cyclization reactions. Tetrahedron, 2014, 70, 3134-3140.	1.9	8
51	Gold(I)-Catalyzed Oriented Assembly of Dihydropyridines. Synlett, 2015, 26, 834-838.	1.8	7
52	Novel phosphine oxide-based electron-transporting materials for efficient phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 8579-8585.	5.5	7
53	Efficient electroluminescence of bluish green iridium complexes with 2-(3,5-bis(trifluoromethyl)phenyl)pyrimidine and 2-(3,5-bis(trifluoromethyl)phenyl)-5-fluoropyrimidine as the main ligands. Inorganic Chemistry Frontiers, 2018, 5, 1545-1552.	6.0	7
54	Design of pyridinylphosphinate-based blue iridium phosphors for high-efficiency organic light-emitting diodes. Dalton Transactions, 2021, 50, 3887-3893.	3.3	7

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55	Zn(CF ₃ SO ₃) ₂ mediated domino hydroamination-ring cleavage of 2,5-dihydrofuran. Tetrahedron Letters, 2013, 54, 3937-3939.	1.4	5
56	An efficient approach for 3-haloquinoline synthesis: PhI(OAc) ₂ -mediated A ₃ -X type tandem annulation of amine, aldehyde, alkyne and halide salt. Tetrahedron Letters, 2022, 101, 153927.	1.4	4
57	Efficient bluish green electroluminescence of iridium complexes with good electron mobility. New Journal of Chemistry, 2018, 42, 13351-13357.	2.8	3
58	Efficient blue, green and red iridium complexes with noncovalently-linked pyrazole/pyrazolide rings for organic light-emitting diodes. New Journal of Chemistry, 2020, 44, 530-536.	2.8	3
59	Construction of Benzimidazolone Derivatives via Aryl Iodide Catalyzed Intramolecular Oxidative C-H Amination. Journal of Organic Chemistry, 2022, 87, 3234-3241.	3.2	3
60	One-pot synthesis of 1,5-diaza-2,6-cyclooctadiene-3,7-dicarboxylates through a multiple-component reaction. Chemical Research in Chinese Universities, 2014, 30, 387-389.	2.6	0
61	Secondary Amine-Mediated Cyclization of Methyl Propiolate with Imines. Chinese Journal of Organic Chemistry, 2016, 36, 1335.	1.3	0