Zhiming Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3854801/publications.pdf

Version: 2024-02-01

92 papers	6,119 citations	101384 36 h-index	71532 76 g-index
93 all docs	93 docs citations	93 times ranked	5285 citing authors

#	Article	IF	Citations
1	Changing the Behavior of Chromophores from Aggregationâ€Caused Quenching to Aggregationâ€Induced Emission: Development of Highly Efficient Light Emitters in the Solid State. Advanced Materials, 2010, 22, 2159-2163.	11.1	834
2	A Twisting Donorâ€Acceptor Molecule with an Intercrossed Excited State for Highly Efficient, Deepâ€Blue Electroluminescence. Advanced Functional Materials, 2012, 22, 2797-2803.	7.8	614
3	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.	3.2	472
4	Achieving a Significantly Increased Efficiency in Nondoped Pure Blue Fluorescent OLED: A Quasiâ€Equivalent Hybridized Excited State. Advanced Functional Materials, 2015, 25, 1755-1762.	7.8	381
5	Phenanthro[9,10-d]imidazole as a new building block for blue light emitting materials. Journal of Materials Chemistry, 2011, 21, 5451.	6.7	229
6	Molecular anchors in the solid state: Restriction of intramolecular rotation boosts emission efficiency of luminogen aggregates to unity. Chemical Science, 2011, 2, 672-675.	3.7	216
7	Molecular Engineering to Boost AIEâ€Active Free Radical Photogenerators and Enable Highâ€Performance Photodynamic Therapy under Hypoxia. Advanced Functional Materials, 2020, 30, 2002057.	7.8	208
8	Pyrene-substituted ethenes: aggregation-enhanced excimer emission and highly efficient electroluminescence. Journal of Materials Chemistry, 2011, 21, 7210.	6.7	206
9	Full emission color tuning in luminogens constructed from tetraphenylethene, benzo-2,1,3-thiadiazole and thiophene building blocks. Chemical Communications, 2011, 47, 8847.	2.2	175
10	Efficient Near-Infrared Photosensitizer with Aggregation-Induced Emission for Imaging-Guided Photodynamic Therapy in Multiple Xenograft Tumor Models. ACS Nano, 2020, 14, 854-866.	7.3	161
11	Specific Fluorescence Probes for Lipid Droplets Based on Simple AIEgens. ACS Applied Materials & Interfaces, 2016, 8, 10193-10200.	4.0	132
12	Efficient Bipolar Blue AIEgens for Highâ€Performance Nondoped Blue OLEDs and Hybrid White OLEDs. Advanced Functional Materials, 2018, 28, 1803369.	7.8	130
13	A Multifunctional Blueâ€Emitting Material Designed via Tuning Distribution of Hybridized Excitedâ€State for Highâ€Performance Blue and Hostâ€Sensitized OLEDs. Advanced Functional Materials, 2020, 30, 2002323.	7.8	108
14	A Feasible Strategy of Fabricating Type I Photosensitizer for Photodynamic Therapy in Cancer Cells and Pathogens. ACS Nano, 2021, 15, 7735-7743.	7.3	95
15	High-efficiency deep blue fluorescent emitters based on phenanthro[9,10-d]imidazole substituted carbazole and their applications in organic light emitting diodes. Organic Electronics, 2014, 15, 2667-2676.	1.4	94
16	Creation of Efficient Blue Aggregation-Induced Emission Luminogens for High-Performance Nondoped Blue OLEDs and Hybrid White OLEDs. ACS Applied Materials & Interfaces, 2019, 11, 17592-17601.	4.0	93
17	Synergistic tuning of the optical and electrical performance of AIEgens with a hybridized local and charge-transfer excited state. Journal of Materials Chemistry C, 2019, 7, 6359-6368.	2.7	82
18	Specific discrimination of gram-positive bacteria and direct visualization of its infection towards mammalian cells by a DPAN-based AIEgen. Biomaterials, 2018, 187, 47-54.	5.7	73

#	Article	IF	Citations
19	Exploration of High Efficiency AIEâ€Active Deep/Nearâ€Infrared Red Emitters in OLEDs with Highâ€Radiance. Advanced Optical Materials, 2020, 8, 1901520.	3.6	72
20	Highâ€Performance Ultraviolet Organic Lightâ€Emitting Diode Enabled by Highâ€Lying Reverse Intersystem Crossing. Angewandte Chemie - International Edition, 2021, 60, 22241-22247.	7.2	68
21	Construction of high efficiency non-doped deep blue emitters based on phenanthroimidazole: remarkable substitution effects on the excited state properties and device performance. Physical Chemistry Chemical Physics, 2014, 16, 20772-20779.	1.3	65
22	A Lysosomeâ€Targeting AIEgen for Autophagy Visualization. Advanced Healthcare Materials, 2016, 5, 427-431.	3.9	65
23	Molecular Motions in AIEgen Crystals: Turning on Photoluminescence by Force-Induced Filament Sliding. Journal of the American Chemical Society, 2020, 142, 14608-14618.	6.6	62
24	Intriguing â€œchameleonâ€•fluorescent bioprobes for the visualization of lipid droplet-lysosome interplay. Biomaterials, 2019, 203, 43-51.	5.7	61
25	Materials interaction in aggregation-induced emission (AIE)-based fluorescent resin for smart coatings. Journal of Materials Chemistry C, 2018, 6, 12849-12857.	2.7	57
26	Dimeric phenanthroimidazole for blue electroluminescent materials: the effect of substituted position attached to biphenyl center. Physical Chemistry Chemical Physics, 2014, 16, 10837-10843.	1.3	54
27	Electronic effect on the optical properties and sensing ability of AIEgens with ESIPT process based on salicylaldehyde azine. Science China Chemistry, 2018, 61, 76-87.	4.2	51
28	Theoretical investigation of high-efficiency organic electroluminescent material: HLCT state and hot exciton process. RSC Advances, 2017, 7, 19576-19583.	1.7	48
29	Isomers of Pyreneâ€“Imidazole Compounds: Synthesis and Configuration Effect on Optical Properties. Organic Letters, 2015, 17, 6138-6141.	2.4	47
30	Fluorescent aggregation-induced emission (AIE)-based thermosetting electrospun nanofibers: fabrication, properties and applications. Materials Chemistry Frontiers, 2019, 3, 2491-2498.	3.2	46
31	Trojan Horseâ€Like Nanoâ€AIE Aggregates Based on Homologous Targeting Strategy and Their Photodynamic Therapy in Anticancer Application. Advanced Science, 2021, 8, e2102561.	5.6	46
32	Versatile Direct Cyclization Constructs Spiroâ€acridan Derivatives for Highly Efficient TADF emitters. Angewandte Chemie - International Edition, 2021, 60, 12376-12380.	7.2	45
33	Tetraphenylpyrazine-based luminogens with full-colour emission. Materials Chemistry Frontiers, 2018, 2, 1310-1316.	3.2	44
34	Fluorescent Sensor Array for Highly Efficient Microbial Lysate Identification through Competitive Interactions. ACS Sensors, 2018, 3, 2218-2222.	4.0	42
35	Robust luminescent small molecules with aggregation-induced delayed fluorescence for efficient solution-processed OLEDs. Journal of Materials Chemistry C, 2019, 7, 330-339.	2.7	42
36	Towards stable deep-blue emission and low efficiency roll-off in OLEDs based on phenanthroimidazole dimers. Journal of Materials Chemistry C, 2016, 4, 1886-1894.	2.7	40

#	Article	IF	Citations
37	Photo-Enhanced Chemotherapy Performance in Bladder Cancer Treatment via Albumin Coated AIE Aggregates. ACS Nano, 2022, 16, 7535-7546.	7.3	37
38	Novel Strategy for Constructing High Efficiency OLED Emitters with Excited State Quinoneâ€Conformation Induced Planarization Process. Advanced Optical Materials, 2019, 7, 1900283.	3.6	34
39	Tetraphenylpyrazine Based AIE Luminogens: Unique Excited State Decay and Its Application in Deepâ€Blue Lightâ€Emitting Diodes. Advanced Optical Materials, 2019, 7, 1801673.	3.6	33
40	Aggregation-Induced Electrochemiluminescence of Tetraphenylbenzosilole Derivatives in an Aqueous Phase System for Ultrasensitive Detection of Hexavalent Chromium. Analytical Chemistry, 2020, 92, 14838-14845.	3.2	32
41	Structural Modification Orientated Multifunctional AIE Fluorescence Probes: Organelles Imaging and Effective Photosensitizer for Photodynamic Therapy. Advanced Optical Materials, 2020, 8, 1901433.	3.6	31
42	Sulfur-bridged tetraphenylethylene AIEgens for deep-blue organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 6534-6542.	2.7	30
43	Selective and sensitive fluorescent probes for metal ions based on AIE dots in aqueous media. Journal of Materials Chemistry C, 2018, 6, 11261-11265.	2.7	29
44	Multiplexed imaging detection of live cell intracellular changes in early apoptosis with aggregation-induced emission fluorogens. Science China Chemistry, 2018, 61, 892-897.	4.2	29
45	Achievement of Highâ€Performance Nondoped Blue OLEDs Based on AIEgens via Construction of Effective Highâ€Lying Chargeâ€Transfer State. Advanced Optical Materials, 2020, 8, 1902195.	3.6	29
46	Synergistic Enhancement of Fluorescence and Magnetic Resonance Signals Assisted by Albumin Aggregate for Dual-Modal Imaging. ACS Nano, 2021, 15, 9924-9934.	7.3	27
47	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.	1.7	26
48	Genipin crosslinked gum arabic: Synthesis, characterization, and emulsification properties. Carbohydrate Polymers, 2021, 261, 117880.	5.1	26
49	Photoactivatable dihydroalkaloids for cancer cell imaging and chemotherapy with high spatiotemporal resolution. Materials Horizons, 2020, 7, 2696-2701.	6.4	24
50	A triphenylamine-capped solution-processable wholly aromatic organic molecule with electrochemical stability and its potential application in photovoltaic devices. New Journal of Chemistry, 2013, 37, 2440.	1.4	23
51	Visualizing Dynamic Performance of Lipid Droplets in a Parkinsonâ€™s Disease Model via a Smart Photostable Aggregation-Induced Emission Probe. IScience, 2019, 21, 261-272.	1.9	22
52	Planarized intramolecular charge transfer on triphenylamine-modified pyrazine and its application in organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 4754-4762.	2.7	21
53	Size Optimization of Organic Nanoparticles with Aggregationâ€Induced Emission Characteristics for Improved ROS Generation and Photodynamic Cancer Cell Ablation. Small, 2022, 18, .	5.2	21
54	Feasible structure-modification strategy for inhibiting aggregation-caused quenching effect and constructing exciton conversion channels in acridone-based emitters. Physical Chemistry Chemical Physics, 2019, 21, 9837-9844.	1.3	20

#	Article	IF	Citations
55	Efficient Ultraviolet Organic Light-Emitting Diodes with a CIEy of 0.04 and Negligible-Efficiency Roll-Off. ACS Applied Materials & Interfaces, 2022, 14, 10627-10636.	4.0	19
56	Triphenylpyrazine: methyl substitution to achieve deep blue AIE emitters. Journal of Materials Chemistry C, 2019, 7, 13047-13051.	2.7	17
57	Luminescent two-way reversible shape memory polymers prepared by hydroxylâ€“yne click polymerization. Journal of Materials Chemistry C, 2020, 8, 16121-16128.	2.7	17
58	Modulating LUMO extension of Spiro-junction TADF emitters for efficient OLEDs with relieved efficiency Roll-Off. Chemical Engineering Journal, 2022, 437, 135222.	6.6	17
59	A Photostable AIEgen for Specific and Realâ€time Monitoring of Lysosomal Processes. Chemistry - an Asian Journal, 2019, 14, 1662-1666.	1.7	16
60	Delicate modulation of triplet energy levels for activating â€œhot excitonsâ€•channels in deep red AIEgens. Journal of Materials Chemistry C, 2020, 8, 14146-14154.	2.7	16
61	The effect of meta coupling on colour purity, quantum yield, and exciton utilizing efficiency in deep-blue emitters from phenanthroimidazole isomers. Physical Chemistry Chemical Physics, 2015, 17, 31894-31901.	1.3	15
62	Keto-salicylaldehyde azine: asymmetric substituent effect on their optical properties via electron-donating group insertion. Journal of Materials Chemistry C, 2020, 8, 996-1001.	2.7	15
63	Each phenyl group performs its own functions on luminescence: phenyl substituted effect in tetraphenylpyrazine. Materials Chemistry Frontiers, 2020, 4, 1706-1713.	3.2	14
64	Aggregation-Induced Emission Luminogen-Based Dual-Mode Enzyme-Linked Immunosorbent Assay for Ultrasensitive Detection of Cancer Biomarkers in a Broad Concentration Range. ACS Sensors, 2022, 7, 766-774.	4.0	13
65	Structural modification on tetraphenylpyrazine: from polarity enhanced emission to polarity quenching emission and its intramolecular charge transfer mechanism. Journal of Materials Chemistry C, 2022, 10, 8174-8180.	2.7	13
66	Tunable Intramolecular Charge Transfer Effect on Diphenylpyrazineâ€Based Linear Derivatives and Their Expected Performance in Blue Emitters. Advanced Optical Materials, 2021, 9, 2101085.	3.6	12
67	Molecular engineering to achieve AIE-active photosensitizers with NIR emission and rapid ROS generation efficiency. Journal of Materials Chemistry B, 2022, 10, 5272-5278.	2.9	12
68	Photo-induced crystallization with emission enhancement (PICEE). Materials Horizons, 2020, 7, 3005-3010.	6.4	11
69	Keto-salicylaldehyde azine: a kind of novel building block for AIEgens and its application in tracking lipid droplets. Materials Chemistry Frontiers, 2020, 4, 3094-3102.	3.2	11
70	Tetraphenylpyrazine decorated 1,3-di(9H-carbazol-9-yl)benzene (mCP): a new AIE-active host with enhanced performance in organic light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 11160-11166.	2.7	10
71	Aggregation-enhanced emission in tetraphenylpyrazine-based luminogens: theoretical modulation and experimental validation. Materials Chemistry Frontiers, 2021, 5, 5012-5023.	3.2	10
72	Highâ€Performance Ultraviolet Organic Lightâ€Emitting Diode Enabled by Highâ€Lying Reverse Intersystem Crossing. Angewandte Chemie, 2021, 133, 22415-22421.	1.6	10

#	Article	IF	Citations
73	Side by Side Alignment of Donors Enabling Highâ€Efficiency TADF OLEDs with Insensitivity to Doping Concentration. Advanced Optical Materials, 2021, 9, 2101410.	3.6	10
74	Which is a better fluorescent sensor: aggregation-induced emission-based nanofibers or thin-coating films?. Materials Advances, 2020, 1, 574-578.	2.6	9
75	Facile fabrication of self-shrinkable AIE supramolecular gels based on benzophenone salicylaldehyde hydrazine derivatives. Journal of Materials Chemistry C, 2020, 8, 13705-13711.	2.7	9
76	Aggregation-induced emission luminogen for specific identification of malignant tumour in vivo. Science China Chemistry, 2020, 63, 393-397.	4.2	9
77	Dual-Mode Ultrasensitive Detection of Nucleic Acids via an Aqueous â€œSeesawâ€•Strategy by Combining Aggregation-Induced Emission and Plasmonic Colorimetry. ACS Applied Nano Materials, 2019, 2, 163-169.	2.4	8
78	Uncommon Intramolecular Charge Transfer Effect and Its Potential Application in OLED Emitters. Chemical Research in Chinese Universities, 2020, 36, 61-67.	1.3	8
79	Rapid membrane-specific AIEgen featuring with wash-free imaging and sensitive light-excited killing of cells, bacteria, and fungi. Materials Chemistry Frontiers, 2021, 5, 2724-2729.	3.2	8
80	Cationic Tricyclic AIEgens for Concomitant Bacterial Discrimination and Inhibition. Advanced Healthcare Materials, 2021, 10, 2100136.	3.9	8
81	Bright near-infrared aggregation-induced emission dots for long-term bioimaging in vitro/vivo. Dyes and Pigments, 2021, 195, 109679.	2.0	8
82	Precise modulation of the triplet state distribution for high-efficiency non-doped standard saturated red OLEDs. Journal of Materials Chemistry C, 0, , .	2.7	8
83	Synthesis and application of functionalized ionic liquids as solvent to corn stalk for phenolic resin modification. E-Polymers, 2015, 15, 195-201.	1.3	7
84	Construction of sublimable pure organic ionic material with high solid luminescence efficiency based on anion-Ï€+ interactions tuning strategy. Chemical Engineering Journal, 2022, 433, 133646.	6.6	6
85	Critical Role of Highâ€Lying Triplet States for Efficient Excitons Utilization in Highâ€Performance Nonâ€Doped Deepâ€Blue Fluorescent and Hybrid White Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	3.6	6
86	Tuning non-radiative decay channelsviasymmetric/asymmetric substituent effects on phenazine derivatives and their phototherapy switch between dynamic and thermal processes. Materials Chemistry Frontiers, 2022, 6, 316-324.	3.2	3
87	Adjusting and visualizing the stability of an acyl chloride through the delocalization effect and introducing AIEgens. Chemical Communications, 2022, 58, 5769-5772.	2.2	3
88	Efficient thermally activated delayed fluorescence emitters based on a parallelly aligned bi-spiro-acridine donor. Journal of Materials Chemistry C, 0, , .	2.7	3
89	Synthesis of polyether imidazole ionic liquid and its modification on polypropylene crystal structure and mechanical properties. E-Polymers, 2015, 15, 33-37.	1.3	2
90	Predictable luminescence performance of polyphenylpyrazine derivatives based on a theoretical model via holeâ€“electron overlap. Journal of Materials Chemistry C, 2021, 9, 16619-16625.	2.7	2

#	Article	IF	Citations
91	Preparation of 9,10-diarylphenanthrene derivative and its application in full color emitters synthesis. Chemical Research in Chinese Universities, 2017, 33, 574-580.	1.3	1
92	Visualization of Mitochondria During Embryogenesis in Zebrafish by Aggregation-Induced Emission Molecules. Molecular Imaging and Biology, 2022, 24, 1007-1017.	1.3	1