Qisheng Zhang

List of Publications by Year
in descending order

62 papers	10,227 citations	126907 33 h-index	118850 62 g-index
67 all docs	67 docs citations	67 times ranked	5333 citing authors

#	Article	IF	Citations
1	Efficient blue organic light-emitting diodes employing thermally activated delayed fluorescence. Nature Photonics, 2014, 8, 326-332.	31.4	2,064
2	Design of Efficient Thermally Activated Delayed Fluorescence Materials for Pure Blue Organic Light Emitting Diodes. Journal of the American Chemical Society, 2012, 134, 14706-14709.	13.7	1,370
3	Highly efficient blue electroluminescence based on thermally activated delayed fluorescence. Nature Materials, 2015, 14, 330-336.	27.5	1,129
4	Anthraquinone-Based Intramolecular Charge-Transfer Compounds: Computational Molecular Design, Thermally Activated Delayed Fluorescence, and Highly Efficient Red Electroluminescence. Journal of the American Chemical Society, 2014, 136, 18070-18081.	13.7	822
5	Enhanced Electroluminescence Efficiency in a Spiroâ€Acridine Derivative through Thermally Activated Delayed Fluorescence. Angewandte Chemie - International Edition, 2012, 51, 11311-11315.	13.8	495
6	Nearly 100% Internal Quantum Efficiency in Undoped Electroluminescent Devices Employing Pure Organic Emitters. Advanced Materials, 2015, 27, 2096-2100.	21.0	495
7	Luminous Butterflies: Efficient Exciton Harvesting by Benzophenone Derivatives for Fullâ€Color Delayed Fluorescence OLEDs. Angewandte Chemie - International Edition, 2014, 53, 6402-6406.	13.8	473
8	Highly Efficient Organic Lightâ€Emitting Diode Based on a Hidden Thermally Activated Delayed Fluorescence Channel in a Heptazine Derivative. Advanced Materials, 2013, 25, 3319-3323.	21.0	436
9	Computational Prediction for Singlet- and Triplet-Transition Energies of Charge-Transfer Compounds. Journal of Chemical Theory and Computation, 2013, 9, 3872-3877.	5.3	312
10	Triplet Exciton Confinement in Green Organic Lightâ€Emitting Diodes Containing Luminescent Chargeâ€Transfer Cu(I) Complexes. Advanced Functional Materials, 2012, 22, 2327-2336.	14.9	279
11	High-efficiency deep-blue organic light-emitting diodes based on a thermally activated delayed fluorescence emitter. Journal of Materials Chemistry C, 2014, 2, 421-424.	5.5	259
12	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. Advanced Materials, 2016, 28, 7620-7625.	21.0	160
13	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. Nature Materials, 2022, 21, 210-216.	27.5	146
14	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). Angewandte Chemie - International Edition, 2020, 59, 10160-10172.	13.8	131
15	Neutral copper(<scp>i</scp>) phosphorescent complexes from their ionic counterparts with 2-(2â€²-quinolyl)benzimidazole and phosphine mixed ligands. Dalton Transactions, 2011, 40, 686-693.	3.3	130
16	Efficient luminescence from a copper(i) complex doped in organic light-emitting diodes by suppressing Câ€“H vibrational quenching. Chemical Communications, 2012, 48, 5340.	4.1	92
17	A solution-processable host material of 1,3-bis{3-[3-(9-carbazolyl)phenyl]-9-carbazolyl}benzene and its application in organic light-emitting diodes employing thermally activated delayed fluorescence. Journal of Materials Chemistry C, 2015, 3, 1700-1706.	5.5	76
18	Thermally activated delayed fluorescence from 3n<i>Ï€</i>* to 1n<i>Ï€</i>* up-conversion and its application to organic light-emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	72

#	ARTICLE	IF	CITATIONS
19	Novel luminescent iminephosphine complex of copper(i) with high photochemical and electrochemical stability. Dalton Transactions, 2009, , 9388.	3.3	64
20	Tetradentate Platinum(II) Complexes for Highly Efficient Phosphorescent Emitters and Sky Blue OLEDs. Chemistry of Materials, 2020, 32, 537-548.	6.7	61
21	Degradation Mechanisms in Blue Organic Light-Emitting Diodes. CCS Chemistry, 2020, 2, 1278-1296.	7.8	60
22	Dicarbazolyldicyanobenzenes as Thermally Activated Delayed Fluorescence Emitters: Effect of Substitution Position on Photoluminescent and Electroluminescent Properties. Chemistry Letters, 2014, 43, 319-321.	1.3	58
23	A host material consisting of a phosphinic amide directly linked donorâ€"acceptor structure for efficient blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 2404.	5.5	56
24	Rotation-restricted thermally activated delayed fluorescence compounds for efficient solution-processed OLEDs with EQEs of up to 24.3% and small roll-off. Chemical Communications, 2020, 56, 5957-5960.	4.1	51
25	Difluoroboron-Enabled Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2019, 11, 32209-32217.	8.0	46
26	Excitonâ€•and Polaronâ€Induced Reversible Dipole Reorientation in Amorphous Organic Semiconductor Films. Advanced Optical Materials, 2019, 7, 1801644.	7.3	44
27	A high fluorescence rate is key for stable blue organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 7728-7733.	5.5	43
28	Phosphorescent Cuprous Complexes with N,O Ligands â€" Synthesis, Photoluminescence, and Electroluminescence. European Journal of Inorganic Chemistry, 2010, 2010, 4009-4017.	2.0	41
29	Theoretical predication for transition energies of thermally activated delayed fluorescence molecules. Chinese Chemical Letters, 2016, 27, 1445-1452.	9.0	37
30	Prediction of Intramolecular Charge-Transfer Excitation for Thermally Activated Delayed Fluorescence Molecules from a Descriptor-Tuned Density Functional. Journal of Physical Chemistry C, 2018, 122, 7816-7823.	3.1	36
31	Understanding Solid-State Solvation-Enhanced Thermally Activated Delayed Fluorescence Using a Descriptor-Tuned Screened Range-Separated Functional. Journal of Physical Chemistry C, 2019, 123, 4407-4416.	3.1	36
32	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). Angewandte Chemie, 2020, 132, 10246-10258.	2.0	36
33	Dithia[3.3]paracyclophane Core: A Versatile Platform for Triplet State Fineâ€Tuning and Throughâ€Space TADF Emission. Chemistry - an Asian Journal, 2019, 14, 1921-1925.	3.3	34
34	Computational prediction for oxidation and reduction potentials of organic molecules used in organic light-emitting diodes. Organic Electronics, 2019, 64, 216-222.	2.6	31
35	High Fluorescence Rate of Thermally Activated Delayed Fluorescence Emitters for Efficient and Stable Blue OLEDs. ACS Applied Materials & Interfaces, 2020, 12, 31706-31715.	8.0	27
36	Homopolymerization and Copolymerization of Isoprene and Styrene with a Neodymium Catalyst Using an Alkylmagnesium Cocatalyst. Macromolecular Rapid Communications, 2001, 22, 1493.	3.9	23

#	Article	IF	Citations
37	Efficient and Stable Organic Light-Emitting Diodes Employing Indolo[2,3-<i>b</i>]indole-Based Thermally Activated Delayed Fluorescence Emitters. ACS Applied Materials & Interfaces, 2020, 12, 6127-6136.	8.0	23
38	Improving the Stability of Green Thermally Activated Delayed Fluorescence OLEDs by Reducing the Excited-State Dipole Moment. Journal of Physical Chemistry C, 2019, 123, 29875-29883.	3.1	22
39	Efficient deep-blue organic light-emitting diodes employing difluoroboron-enabled thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2020, 8, 17464-17473.	5.5	19
40	Pyrazine-Based Blue Thermally Activated Delayed Fluorescence Materials: Combine Small Singletâ€“Triplet Splitting With Large Fluorescence Rate. Frontiers in Chemistry, 2019, 7, 312.	3.6	17
41	Improving Brightness and Stability of Si-Rhodamine for Super-Resolution Imaging of Mitochondria in Living Cells. Analytical Chemistry, 2020, 92, 12137-12144.	6.5	17
42	Tetradentate Platinum(II) and Palladium(II) Complexes Containing Fused 6/6/6 or 6/6/5 Metallocycles with Azacarbazolylcarbazole-Based Ligands. Inorganic Chemistry, 2021, 60, 12972-12983.	4.0	17
43	Ultrapure blue organic light-emitting diodes exhibiting 13 nm full width at half-maximum. Journal of Materials Chemistry C, 2022, 10, 7799-7802.	5.5	17
44	Copolymerization of butadiene with styrene using a rare-earth metal compound - dialkylmagnesium - halohydrocarbon catalytic system. Polymer International, 2002, 51, 208-212.	3.1	16
45	Tuning the Excited State of Tetradentate Pd(II) Complexes for Highly Efficient Deep-Blue Phosphorescent Materials. Inorganic Chemistry, 2020, 59, 13502-13516.	4.0	16
46	Expanding the hole delocalization range in excited molecules for stable organic light-emitting diodes employing thermally activated delayed fluorescence. Journal of Materials Chemistry C, 2020, 8, 10021-10030.	5.5	14
47	Efficient Intramolecular Chargeâ€Transfer Fluorophores Based on Substituted Triphenylphosphine Donors. Angewandte Chemie - International Edition, 2021, 60, 15049-15053.	13.8	14
48	Phosphorescent Tetradentate Platinum(II) Complexes Containing Fused 6/5/5 or 6/5/6 Metallocycles. Inorganic Chemistry, 2020, 59, 18109-18121.	4.0	12
49	Toward an Accurate Description of Thermally Activated Delayed Fluorescence: Equal Importance of Electronic and Geometric Factors. Journal of Physical Chemistry C, 2019, 123, 13869-13876.	3.1	11
50	Weakly Conjugated Phosphine Oxide Hosts for Efficient Blue Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 30591-30599.	8.0	11
51	A wide-bandgap, high-mobility electron-transporting material containing a 9,9â€²-spirobithioxanthene skeleton. Chemical Engineering Journal, 2022, 429, 132215.	12.7	10
52	Copolymerization of Butadiene with Styrene by Nd(vers)3â€“Al(iâ€Bu)3â€“CHCl3Catalyst System. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 39-48.	2.2	9
53	Highly resilient polyethylene elastomers prepared using Î±â€diimine nickel catalyst with highly conjugated backbone. Applied Organometallic Chemistry, 2018, 32, e4566.	3.5	9
54	Tuning the Excited State of Tetradentate Pd(II) and Pt(II) Complexes through Benzannulated N â€Heteroaromatic Ring and Central Metal. Chinese Journal of Chemistry, 2022, 40, 223-234.	4.9	8

#	ARTICLE	IF	CITATIONS
55	Zeroâ€“Zero Energy-Dominated Degradation in Blue Organic Light-Emitting Diodes Employing Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2022, 14, 22332-22340.	8.0	7
56	Efficient and stable deep blue thermally activated delayed fluorescent molecules based on a bipyridine acceptor core. Journal of Materials Chemistry C, 2021, 9, 3088-3095.	5.5	6
57	Efficient Intramolecular Chargeâ€Transfer Fluorophores Based on Substituted Triphenylphosphine Donors. Angewandte Chemie, 2021, 133, 15176-15180.	2.0	4
58	Blue OLEDs: Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices (Adv. Mater. 35/2016). Advanced Materials, 2016, 28, 7807-7807.	21.0	2
59	Deep-blue thermally activated delayed fluorescence emitter with a very high fluorescence rate. Organic Electronics, 2021, 96, 106254.	2.6	2
60	Selection of side groups on simple <scp>nonâ€fullerene</scp> acceptors for the application in organic solar cells: From flexible to rigid. Journal of Polymer Science, 2022, 60, 2343-2351.	3.8	1
61	Highly Efficient Organic Light-Emitting Diode Based on a Hidden Thermally Activated Delayed Fluorescence Channel in a Heptazine Derivative. , 2013, , .		0
62	Fundamental theories of TADF. , 2022, , 71-89.		0