

Qisheng Zhang

List of Publications by Year in descending order

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62
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10,227
citations

126907

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docs citations

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times ranked

5333
citing authors

#	ARTICLE	IF	CITATIONS
1	A wide-bandgap, high-mobility electron-transporting material containing a 9,9- spiro bithioxanthene skeleton. <i>Chemical Engineering Journal</i> , 2022, 429, 132215.	12.7	10
2	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. <i>Nature Materials</i> , 2022, 21, 210-216.	27.5	146
3	Fundamental theories of TADF. , 2022, , 71-89.		0
4	Tuning the Excited State of Tetradentate Pd(II) and Pt(II) Complexes through Benzannulated N-Heteroaromatic Ring and Central Metal. <i>Chinese Journal of Chemistry</i> , 2022, 40, 223-234.	4.9	8
5	Selection of side groups on simple non-fullerene acceptors for the application in organic solar cells: From flexible to rigid. <i>Journal of Polymer Science</i> , 2022, 60, 2343-2351.	3.8	1
6	Ultrapure blue organic light-emitting diodes exhibiting 13 nm full width at half-maximum. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7799-7802.	5.5	17
7	Zero-Energy-Dominated Degradation in Blue Organic Light-Emitting Diodes Employing Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22332-22340.	8.0	7
8	Efficient and stable deep blue thermally activated delayed fluorescent molecules based on a bipyridine acceptor core. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3088-3095.	5.5	6
9	Efficient Intramolecular Charge-Transfer Fluorophores Based on Substituted Triphenylphosphine Donors. <i>Angewandte Chemie</i> , 2021, 133, 15176-15180.	2.0	4
10	Efficient Intramolecular Charge-Transfer Fluorophores Based on Substituted Triphenylphosphine Donors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15049-15053.	13.8	14
11	Tetradentate Platinum(II) and Palladium(II) Complexes Containing Fused 6/6/6 or 6/6/5 Metallocycles with Azacarbazoly-carbazole-Based Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 12972-12983.	4.0	17
12	Deep-blue thermally activated delayed fluorescence emitter with a very high fluorescence rate. <i>Organic Electronics</i> , 2021, 96, 106254.	2.6	2
13	Tetradentate Platinum(II) Complexes for Highly Efficient Phosphorescent Emitters and Sky Blue OLEDs. <i>Chemistry of Materials</i> , 2020, 32, 537-548.	6.7	61
14	Efficient and Stable Organic Light-Emitting Diodes Employing Indolo[2,3- <i>b</i>]indole-Based Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6127-6136.	8.0	23
15	Phosphorescent Tetradentate Platinum(II) Complexes Containing Fused 6/5/5 or 6/5/6 Metallocycles. <i>Inorganic Chemistry</i> , 2020, 59, 18109-18121.	4.0	12
16	Efficient deep-blue organic light-emitting diodes employing difluoroboron-enabled thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17464-17473.	5.5	19
17	Tuning the Excited State of Tetradentate Pd(II) Complexes for Highly Efficient Deep-Blue Phosphorescent Materials. <i>Inorganic Chemistry</i> , 2020, 59, 13502-13516.	4.0	16
18	Improving Brightness and Stability of Si-Rhodamine for Super-Resolution Imaging of Mitochondria in Living Cells. <i>Analytical Chemistry</i> , 2020, 92, 12137-12144.	6.5	17

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19	Weakly Conjugated Phosphine Oxide Hosts for Efficient Blue Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30591-30599.	8.0	11
20	High Fluorescence Rate of Thermally Activated Delayed Fluorescence Emitters for Efficient and Stable Blue OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31706-31715.	8.0	27
21	Expanding the hole delocalization range in excited molecules for stable organic light-emitting diodes employing thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10021-10030.	5.5	14
22	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie</i> , 2020, 132, 10246-10258.	2.0	36
23	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10160-10172.	13.8	131
24	Rotation-restricted thermally activated delayed fluorescence compounds for efficient solution-processed OLEDs with EQEs of up to 24.3% and small roll-off. <i>Chemical Communications</i> , 2020, 56, 5957-5960.	4.1	51
25	Degradation Mechanisms in Blue Organic Light-Emitting Diodes. <i>CCS Chemistry</i> , 2020, 2, 1278-1296.	7.8	60
26	Difluoroboron-Enabled Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32209-32217.	8.0	46
27	Improving the Stability of Green Thermally Activated Delayed Fluorescence OLEDs by Reducing the Excited-State Dipole Moment. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29875-29883.	3.1	22
28	Pyrazine-Based Blue Thermally Activated Delayed Fluorescence Materials: Combine Small Singlet-Triplet Splitting With Large Fluorescence Rate. <i>Frontiers in Chemistry</i> , 2019, 7, 312.	3.6	17
29	Dithia[3.3]paracyclophane Core: A Versatile Platform for Triplet State Fine-Tuning and Through-Space TADF Emission. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1921-1925.	3.3	34
30	Toward an Accurate Description of Thermally Activated Delayed Fluorescence: Equal Importance of Electronic and Geometric Factors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13869-13876.	3.1	11
31	Exciton- and Polaron-Induced Reversible Dipole Reorientation in Amorphous Organic Semiconductor Films. <i>Advanced Optical Materials</i> , 2019, 7, 1801644.	7.3	44
32	Understanding Solid-State Solvation-Enhanced Thermally Activated Delayed Fluorescence Using a Descriptor-Tuned Screened Range-Separated Functional. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4407-4416.	3.1	36
33	Computational prediction for oxidation and reduction potentials of organic molecules used in organic light-emitting diodes. <i>Organic Electronics</i> , 2019, 64, 216-222.	2.6	31
34	Prediction of Intramolecular Charge-Transfer Excitation for Thermally Activated Delayed Fluorescence Molecules from a Descriptor-Tuned Density Functional. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7816-7823.	3.1	36
35	Highly resilient polyethylene elastomers prepared using $\hat{\text{I}}\text{-}\hat{\text{I}}$ -diimine nickel catalyst with highly conjugated backbone. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4566.	3.5	9
36	A high fluorescence rate is key for stable blue organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7728-7733.	5.5	43

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37	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. <i>Advanced Materials</i> , 2016, 28, 7620-7625.	21.0	160
38	Theoretical predication for transition energies of thermally activated delayed fluorescence molecules. <i>Chinese Chemical Letters</i> , 2016, 27, 1445-1452.	9.0	37
39	Blue OLEDs: Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices (<i>Adv. Mater.</i> 35/2016). <i>Advanced Materials</i> , 2016, 28, 7807-7807.	21.0	2
40	Nearly 100% Internal Quantum Efficiency in Undoped Electroluminescent Devices Employing Pure Organic Emitters. <i>Advanced Materials</i> , 2015, 27, 2096-2100.	21.0	495
41	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. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1700-1706.	5.5	76
42	Highly efficient blue electroluminescence based on thermally activated delayed fluorescence. <i>Nature Materials</i> , 2015, 14, 330-336.	27.5	1,129
43	Anthraquinone-Based Intramolecular Charge-Transfer Compounds: Computational Molecular Design, Thermally Activated Delayed Fluorescence, and Highly Efficient Red Electroluminescence. <i>Journal of the American Chemical Society</i> , 2014, 136, 18070-18081.	13.7	822
44	Luminous Butterflies: Efficient Exciton Harvesting by Benzophenone Derivatives for Full-Color Delayed Fluorescence OLEDs. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6402-6406.	13.8	473
45	High-efficiency deep-blue organic light-emitting diodes based on a thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2014, 2, 421-424.	5.5	259
46	Thermally activated delayed fluorescence from $3n\pi\pi^*$ to $1n\pi\pi^*$ up-conversion and its application to organic light-emitting diodes. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	72
47	Efficient blue organic light-emitting diodes employing thermally activated delayed fluorescence. <i>Nature Photonics</i> , 2014, 8, 326-332.	31.4	2,064
48	Dicarbazolyldicyanobenzenes as Thermally Activated Delayed Fluorescence Emitters: Effect of Substitution Position on Photoluminescent and Electroluminescent Properties. <i>Chemistry Letters</i> , 2014, 43, 319-321.	1.3	58
49	Computational Prediction for Singlet- and Triplet-Transition Energies of Charge-Transfer Compounds. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3872-3877.	5.3	312
50	Highly Efficient Organic Light-Emitting Diode Based on a Hidden Thermally Activated Delayed Fluorescence Channel in a Heptazine Derivative. <i>Advanced Materials</i> , 2013, 25, 3319-3323.	21.0	436
51	A host material consisting of a phosphinic amide directly linked donor-acceptor structure for efficient blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2404.	5.5	56
52	Highly Efficient Organic Light-Emitting Diode Based on a Hidden Thermally Activated Delayed Fluorescence Channel in a Heptazine Derivative. , 2013, , .		0
53	Efficient luminescence from a copper(i) complex doped in organic light-emitting diodes by suppressing C-H vibrational quenching. <i>Chemical Communications</i> , 2012, 48, 5340.	4.1	92
54	Enhanced Electroluminescence Efficiency in a Spiro-Acridine Derivative through Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11311-11315.	13.8	495

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55	Design of Efficient Thermally Activated Delayed Fluorescence Materials for Pure Blue Organic Light Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2012, 134, 14706-14709.	13.7	1,370
56	Triplet Exciton Confinement in Green Organic Light-Emitting Diodes Containing Luminescent Charge-Transfer Cu(I) Complexes. <i>Advanced Functional Materials</i> , 2012, 22, 2327-2336.	14.9	279
57	Neutral copper(ⁱ) phosphorescent complexes from their ionic counterparts with 2-(2-quinoly)benzimidazole and phosphine mixed ligands. <i>Dalton Transactions</i> , 2011, 40, 686-693.	3.3	130
58	Phosphorescent Cuprous Complexes with N,O Ligands – Synthesis, Photoluminescence, and Electroluminescence. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4009-4017.	2.0	41
59	Novel luminescent iminephosphine complex of copper(i) with high photochemical and electrochemical stability. <i>Dalton Transactions</i> , 2009, , 9388.	3.3	64
60	Copolymerization of Butadiene with Styrene by Nd(vers)3 – Al(i-Bu)3 – CHCl3 Catalyst System. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2004, 41, 39-48.	2.2	9
61	Copolymerization of butadiene with styrene using a rare-earth metal compound - dialkylmagnesium - halohydrocarbon catalytic system. <i>Polymer International</i> , 2002, 51, 208-212.	3.1	16
62	Homopolymerization and Copolymerization of Isoprene and Styrene with a Neodymium Catalyst Using an Alkylmagnesium Cocatalyst. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1493.	3.9	23