

Wen-Cheng Chen

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78
papers

2,123
citations

27
h-index

44
g-index

80
ext. papers

2,738
ext. citations

7.6
avg, IF

5.23
L-index

#	Paper	IF	Citations
78	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14660-14665	16.4	149
77	Blue-emitting organic electrofluorescence materials: progress and prospective. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10957-10963	7.1	128
76	Manipulation of Molecular Aggregation States to Realize Polymorphism, AIE, MCL, and TADF in a Single Molecule. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12473-12477	16.4	119
75	Achieving efficient violet-blue electroluminescence with CIE 6% from naphthyl-linked phenanthroimidazole-carbazole hybrid fluorophores. <i>Chemical Science</i> , 2017 , 8, 3599-3608	9.4	113
74	Highly Efficient Deep-Blue Electroluminescence from a Charge-Transfer Emitter with Stable Donor Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7331-7338	9.5	77
73	Staggered Face-to-Face Molecular Stacking as a Strategy for Designing Deep-Blue Electroluminescent Materials with High Carrier Mobility. <i>Advanced Optical Materials</i> , 2014 , 2, 626-631	8.1	75
72	Novel Bipolar Phenanthroimidazole Derivative Design for a Nondoped Deep-Blue Emitter with High Singlet Exciton Yields. <i>Advanced Optical Materials</i> , 2015 , 3, 1215-1219	8.1	72
71	Molecular modification on bisphenanthroimidazole derivative for deep-blue organic electroluminescent material with ambipolar property and high performance. <i>Organic Electronics</i> , 2015 , 17, 159-166	3.5	67
70	Organic Light-Emitting Diodes Based on Imidazole Semiconductors. <i>Advanced Optical Materials</i> , 2018 , 6, 1800258	8.1	66
69	High-Performance, Simplified Fluorescence and Phosphorescence Hybrid White Organic Light-Emitting Devices Allowing Complete Triplet Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26135-26142	9.5	58
68	Aromatically C6- and C9-Substituted Phenanthro[9,10-d]imidazole Blue Fluorophores: Structure-Property Relationship and Electroluminescent Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26268-26278	9.5	55
67	Rare earth-free composites of carbon dots/metal-organic frameworks as white light emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2207-2211	7.1	52
66	Organic nanostructures of thermally activated delayed fluorescent emitters with enhanced intersystem crossing as novel metal-free photosensitizers. <i>Chemical Communications</i> , 2016 , 52, 11744-11747	5.8	51
65	design of D-πA molecules as universal hosts for monochrome and white phosphorescent organic light-emitting diodes. <i>Chemical Science</i> , 2018 , 9, 4062-4070	9.4	49
64	Intrinsically Cancer-Mitochondria-Targeted Thermally Activated Delayed Fluorescence Nanoparticles for Two-Photon-Activated Fluorescence Imaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41051-41061	9.5	47
63	Self-Assembly of Electron Donor-Acceptor-Based Carbazole Derivatives: Novel Fluorescent Organic Nanoprobes for Both One- and Two-Photon Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11355-65	9.5	46
62	Tuning electrical properties of phenanthroimidazole derivatives to construct multifunctional deep-blue electroluminescent materials. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3584-3592	7.1	45

61	Bipolar Blue Host Emitter with Unity Quantum Yield Allows Full Exciton Radiation in Single-Emissive-Layer Hybrid White Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11691-11698	9.5	43
60	The Development of Phenanthroimidazole Derivatives in Blue-Emitting Organic Electroluminescence. <i>Science of Advanced Materials</i> , 2015 , 7, 2193-2205	2.3	43
59	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9017-9029	7.1	41
58	A meta-molecular tailoring strategy towards an efficient violet-blue organic electroluminescent material. <i>RSC Advances</i> , 2015 , 5, 18067-18074	3.7	41
57	Deep-Red/Near-Infrared Electroluminescence from Single-Component Charge-Transfer Complex via Thermally Activated Delayed Fluorescence Channel. <i>Advanced Functional Materials</i> , 2019 , 29, 1903112	15.6	39
56	High performance low-dimensional perovskite solar cells based on a one dimensional lead iodide perovskite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8811-8817	13	38
55	Modulation of Solid-State Aggregation of Square-Planar Pt(II) Based Emitters: Enabling Highly Efficient Deep-Red/Near Infrared Electroluminescence. <i>Advanced Functional Materials</i> , 2020 , 30, 2002494	15.6	33
54	Manipulation of Molecular Aggregation States to Realize Polymorphism, AIE, MCL, and TADF in a Single Molecule. <i>Angewandte Chemie</i> , 2018 , 130, 12653-12657	3.6	31
53	A novel D _A blue fluorophore based on [1,2,4]triazolo[1,5-a]pyridine as an electron acceptor and its application in organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1071-1079	7.8	30
52	Efficient Orange-Red Thermally Activated Delayed Fluorescence Emitters Feasible for Both Thermal Evaporation and Solution Process. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29086-29093	9.5	30
51	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. <i>Angewandte Chemie</i> , 2019 , 131, 14802-14807	3.6	23
50	A bipolar transporter as an efficient green fluorescent emitter and host for red phosphors in multi- and single-layer organic light-emitting diodes. <i>Chemistry - A European Journal</i> , 2014 , 20, 13762-9	4.8	23
49	A novel spiro-annulated benzimidazole host for highly efficient blue phosphorescent organic light-emitting devices. <i>Chemical Communications</i> , 2018 , 54, 4541-4544	5.8	22
48	Polyphenylnaphthalene as a Novel Building Block for High-Performance Deep-Blue Organic Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1700855	8.1	22
47	Removing shortcomings of linear molecules to develop high efficiencies deep-blue organic electroluminescent materials. <i>Organic Electronics</i> , 2016 , 38, 323-329	3.5	22
46	A pyridine based meta-linking deep-blue emitter with high conjugation extent and electroluminescence efficiencies. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6249-6255	7.1	21
45	Isomeric thermally activated delayed fluorescence emitters based on indolo[2,3-b]acridine electron-donor: a compromising optimization for efficient orange-red organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2898-2904	7.1	20
44	The locally twisted thiophene bridged phenanthroimidazole derivatives as dual-functional emitters for efficient non-doped electroluminescent devices. <i>Organic Electronics</i> , 2015 , 18, 61-69	3.5	20

43	Alkoxy chain regulated stimuli-responsive AIE luminogens based on tetraphenylethylene substituted phenanthroimidazoles and non-doped OLEDs with negligible efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4139-4147	7.1	20
42	Mechanochromic luminescence and color-tunable light-emitting devices of triphenylamine functionalized benzo[d,e]benzo[4,5]imidazo[2,1-a]isoquinolin-7-one. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9808-9812	7.1	18
41	Modulating the acceptor structure of dicyanopyridine based TADF emitters: Nearly 30% external quantum efficiency and suppression on efficiency roll-off in OLED. <i>Chemical Engineering Journal</i> , 2020 , 401, 126107	14.7	17
40	Multifunctional anionic indium-organic frameworks for organic dye separation, white-light emission and dual-emitting Fe ³⁺ sensing. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14897-14903	7.1	17
39	Methoxy substituents activated carbazole-based boron dimesityl TADF emitters. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4780-4788	7.1	16
38	Nanosecond-time-scale delayed fluorescence towards fast triplet-singlet spin conversion for efficient orange-red OLEDs with negligible efficiency roll-off. <i>Chemical Engineering Journal</i> , 2021 , 415, 128949	14.7	16
37	Isomerization enhanced quantum yield of dibenzo[a,c]phenazine-based thermally activated delayed fluorescence emitters for highly efficient orange OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9639-9645	7.1	14
36	Aggregation-state engineering and emission switching in DAD-AIEgens featuring dual emission, MCL and white electroluminescence. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8061-8068	7.1	12
35	Double-twist pyridine-carbonitrile derivatives yielding excellent thermally activated delayed fluorescence emitters for high-performance OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 602-606	7.1	12
34	Anthracene-based fluorescent emitters toward superior-efficiency nondoped TTA-OLEDs with deep blue emission and low efficiency roll-off. <i>Chemical Engineering Journal</i> , 2021 , 421, 127748	14.7	12
33	A high performance deep-blue emitter with an anti-parallel dipole design. <i>Dyes and Pigments</i> , 2017 , 146, 219-225	4.6	11
32	Near-Infrared Thermally Activated Delayed Fluorescence Nanoparticle: A Metal-Free Photosensitizer for Two-Photon-Activated Photodynamic Therapy at the Cell and Small Animal Levels.. <i>Small</i> , 2022 , e2106215	11	11
31	Rational molecular design of bipolar phenanthroimidazole derivatives to realize highly efficient non-doped deep blue electroluminescence with CIE _y = 0.06 and EQE approaching 6%. <i>Dyes and Pigments</i> , 2020 , 173, 107982	4.6	11
30	Deep-blue high-efficiency triplet-triplet annihilation organic light-emitting diodes using donor- and acceptor-modified anthracene fluorescent emitters. <i>Materials Today Energy</i> , 2021 , 21, 100727	7	10
29	Charge-transfer complexes and their applications in optoelectronic devices. <i>Materials Today Energy</i> , 2021 , 20, 100644	7	9
28	Deep-blue organic light-emitting diodes based on push-pull π -extended imidazole-fluorene hybrids. <i>Dyes and Pigments</i> , 2021 , 184, 108754	4.6	9
27	Polymorphic mechanoresponsive luminescent material based on a fluorene-phenanthroimidazole hybrid by modulation of intramolecular conformation and intermolecular interaction. <i>CrystEngComm</i> , 2020 , 22, 2147-2157	3.3	8
26	Achieving high singlet-oxygen generation by applying the heavy-atom effect to thermally activated delayed fluorescent materials. <i>Chemical Communications</i> , 2021 , 57, 4902-4905	5.8	8

25	Deep-Blue OLEDs with Rec.2020 Blue Gamut Compliance and EQE over 22% Achieved by Conformation Engineering.. <i>Advanced Materials</i> , 2022 , e2200537	24	8
24	Solid-State Fluorophore Based on Extended Heteroaromatic Acceptor: Polymorphism, Mechanochromic Luminescence, and Electroluminescence. <i>Crystal Growth and Design</i> , 2020 , 20, 2454-2461	23.5	7
23	Effects of Hydrogen Bonds between Polymeric Hole-Transporting Material and Organic Cation Spacer on Morphology of Quasi-Two-Dimensional Perovskite Grains and Their Performance in Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9440-9447	9.5	7
22	Origin of thermally activated delayed fluorescence in a donor-acceptor type emitter with an optimized nearly planar geometry. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13263-13269	7.1	6
21	High Performance NIR OLEDs with Low Efficiency Roll-Off by Leveraging Os(II) Phosphors and Exciplex Co-Host. <i>Advanced Functional Materials</i> , 2021 , 31, 2102787	15.6	6
20	Highly efficient thermally activated delayed fluorescence emitters enabled by double charge transfer pathways via ortho-linked triarylboron/carbazole hybrids. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1678-1684	7.1	6
19	Harnessing combinational phototherapy via post-synthetic PpIX conjugation on nanoscale metal-organic frameworks. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4763-4770	7.3	5
18	Amplifying Free Radical Generation of AIE Photosensitizer with Small Singlet-Triplet Splitting for Hypoxia-Overcoming Photodynamic Therapy.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
17	Asymmetric aggregation-induced emission materials with double stable configurations toward promoted performance in non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16858-16869	7.1	4
16	Constructing deep-blue bis-tridentate Ir(III) phosphors with fluorene-based dianionic chelates. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1318-1325	7.1	4
15	Optimizing Intermolecular Interactions and Energy Level Alignments of Red TADF Emitters for High-Performance Organic Light-Emitting Diodes.. <i>Small</i> , 2022 , e2201548	11	4
14	Charge transport dependent high open circuit voltage tandem organic photovoltaic cells with low temperature deposited HATCN-based charge recombination layers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4045-50	3.6	3
13	Efficient Yellow Thermally Activated Delayed Fluorescent Emitters Based on 3,5-Dicyanopyridine Acceptors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25489-25498	3.8	3
12	A Perspective on Perovskite Solar Cells: Emergence, Progress, and Commercialization.. <i>Frontiers in Chemistry</i> , 2022 , 10, 802890	5	3
11	Charge-Transfer Complexes: Deep-Red/Near-Infrared Electroluminescence from Single-Component Charge-Transfer Complex via Thermally Activated Delayed Fluorescence Channel (Adv. Funct. Mater. 38/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970263	15.6	2
10	Triplet harvesting aryl carbonyl-based luminescent materials: progress and prospective. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 17233-17264	7.1	2
9	High contrast temperature-responsive luminescence materials from purely organic molecule with persistent room-temperature phosphorescence. <i>Journal of Luminescence</i> , 2021 , 230, 117731	3.8	2
8	Research Progress on Aggregation-Induced Delayed Fluorescence in Materials and Devices. <i>Chinese Journal of Organic Chemistry</i> , 2021 , 41, 3050	3	2

7	A sterically shielded design on anthracene-based emitters for efficient deep-blue organic light-emitting diodes. <i>Journal of Molecular Structure</i> , 2021 , 1232, 130035	3.4	1
6	Versatile azaryl-ketone-based blue AIEgens for efficient organic light-emitting diodes. <i>Dyes and Pigments</i> , 2021 , 195, 109729	4.6	1
5	Research Progress of Red Thermally Activated Delayed Fluorescent Materials Based on Quinoxaline. <i>Acta Chimica Sinica</i> , 2022 , 80, 359	3.3	1
4	New donor-acceptor AIEgens: Influence of bridge on luminescence properties and electroluminescence application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 428, 113891	4.7	0
3	Titelbild: Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency (Angew. Chem. 41/2019). <i>Angewandte Chemie</i> , 2019 , 131, 14529-14529	3.6	
2	Near-Infrared Thermally Activated Delayed Fluorescence Nanoparticle: A Metal-Free Photosensitizer for Two-Photon-Activated Photodynamic Therapy at the Cell and Small Animal Levels (Small 6/2022). <i>Small</i> , 2022 , 18, 2270025	11	
1	Highly efficient inverted polymer solar cells based on ethanolamine-treated indium tin oxide as cathode. <i>Organic Electronics</i> , 2020 , 85, 105896	3.5	