

Ying Wang

List of Publications by Year in descending order

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106
papers

8,355
citations

101543

36
h-index

45317

90
g-index

107
all docs

107
docs citations

107
times ranked

11842
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-Doped Graphene and Its Application in Electrochemical Biosensing. ACS Nano, 2010, 4, 1790-1798.	14.6	1,977
2	Experimental Evidence for Epitaxial Silicene on Diboride Thin Films. Physical Review Letters, 2012, 108, 245501.	7.8	1,488
3	Novel Thermally Activated Delayed Fluorescence Materials—Thioxanthone Derivatives and Their Applications for Highly Efficient OLEDs. Advanced Materials, 2014, 26, 5198-5204.	21.0	488
4	High mobility emissive organic semiconductor. Nature Communications, 2015, 6, 10032.	12.8	420
5	Carbon Dots with Intrinsic Theranostic Properties for Bioimaging, Red-Light-Triggered Photodynamic/Photothermal Simultaneous Therapy In Vitro and In Vivo. Advanced Healthcare Materials, 2016, 5, 665-675.	7.6	246
6	Highly Conductive, Air-Stable Silver Nanowire@Longel Composite Films toward Flexible Transparent Electrodes. Advanced Materials, 2016, 28, 7167-7172.	21.0	203
7	High-Performance and Stable Organic Thin-Film Transistors Based on Fused Thiophenes. Advanced Functional Materials, 2006, 16, 426-432.	14.9	180
8	High-Performance Transistor Based on Individual Single-Crystalline Micrometer Wire of Perylo[1,12-b,c,d]thiophene. Journal of the American Chemical Society, 2007, 129, 1882-1883.	13.7	148
9	Highly Efficient Orange and Red Phosphorescent Organic Light-Emitting Diodes with Low Roll-Off of Efficiency using a Novel Thermally Activated Delayed Fluorescence Material as Host. Advanced Materials, 2015, 27, 4041-4047.	21.0	127
10	Coumarin- and Rhodamine-Fused Deep Red Fluorescent Dyes: Synthesis, Photophysical Properties, and Bioimaging in Vitro. Journal of Organic Chemistry, 2013, 78, 6121-6130.	3.2	120
11	High-Performance Low-Cost Organic Field-Effect Transistors with Chemically Modified Bottom Electrodes. Journal of the American Chemical Society, 2006, 128, 16418-16419.	13.7	118
12	Aromatic-Imide-Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Light-Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 8818-8822.	13.8	118
13	High-Performance Semitransparent Ternary Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1800627.	14.9	109
14	First Synthesis of 2,3,6,7-Tetrabromonaphthalene Diimide. Organic Letters, 2007, 9, 3917-3920.	4.6	93
15	High-Performance Organic Field-Effect Transistors with Low-Cost Copper Electrodes. Advanced Materials, 2008, 20, 1286-1290.	21.0	91
16	Improvements in Stability and Performance of <i>N,N</i> -Dialkyl Perylene Diimide-Based n-Type Thin-Film Transistors. Advanced Materials, 2009, 21, 1631-1635.	21.0	90
17	1-Imino Nitroxide Pyrene for High Performance Organic Field-Effect Transistors with Low Operating Voltage. Journal of the American Chemical Society, 2006, 128, 13058-13059.	13.7	87
18	Novel butterfly pyrene-based organic semiconductors for field effect transistors. Chemical Communications, 2006, , 755.	4.1	86

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19	Synthesis, Characterization, and Field-Effect Transistor Performance of Thieno[3,2-b]thieno[2,3-d]thiophene Derivatives. <i>Advanced Functional Materials</i> , 2009, 19, 772-778.	19.9	85
20	High-Performance Organic Transistor Memory Elements with Steep Flanks of Hysteresis. <i>Advanced Functional Materials</i> , 2008, 18, 2593-2601.	14.9	81
21	Solid-State Emissive Triarylborane-Based [2.2]Paracyclophanes Displaying Circularly Polarized Luminescence and Thermally Activated Delayed Fluorescence. <i>Organic Letters</i> , 2018, 20, 6868-6871.	4.6	75
22	Realizing Efficient Single Organic Molecular White Light-Emitting Diodes from Conformational Isomerization of Quinazoline-Based Emitters. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14233-14243.	8.0	60
23	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.	14.9	59
24	Synergistic Tailoring of Electrostatic and Hydrophobic Interactions for Rapid and Specific Recognition of Lysophosphatidic Acid, an Early-Stage Ovarian Cancer Biomarker. <i>Journal of the American Chemical Society</i> , 2017, 139, 11616-11621.	13.7	58
25	Highly efficient blue organic light-emitting diodes from pyrimidine-based thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2351-2359.	5.5	58
26	Experimental Evidence for Hot Exciton-Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Optical Materials</i> , 2019, 7, 1801190.	7.3	56
27	A novel air-stable n-type organic semiconductor: 4,4-bis[(6,6-diphenyl)-2,2-difluoro-1,3,2-dioxaborine] and its application in organic ambipolar field-effect transistors. <i>Journal of Materials Chemistry</i> , 2006, 16, 4499-4503.	6.7	55
28	Dibenzotetrathiafulvalene Bisimides: New Building Blocks for Organic Electronic Materials**. <i>Advanced Materials</i> , 2007, 19, 3037-3042.	21.0	54
29	Triplet decay-induced negative temperature dependence of the transient photoluminescence decay of thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12077-12084.	5.5	48
30	Fused-Ring Pyrazine Derivatives for n-Type Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1122-1129.	8.0	44
31	Solution-Processed Organic Field-Effect Transistors Based on Polythiophene Derivatives with Conjugated Bridges as Linking Chains. <i>Chemistry of Materials</i> , 2007, 19, 3361-3363.	6.7	42
32	Organic thin-film transistors with high mobilities and low operating voltages based on 5,5-bis-biphenyl-dithieno[3,2-b:2,3-d]thiophene semiconductor and polymer gate dielectric. <i>Applied Physics Letters</i> , 2006, 88, 242113.	3.3	41
33	Organic Light-Emitting Transistors Containing a Laterally Arranged Heterojunction. <i>Advanced Functional Materials</i> , 2007, 17, 1567-1573.	14.9	40
34	Aminobenzofuran-Fused Rhodamine Dyes with Deep-Red to Near-Infrared Emission for Biological Applications. <i>Journal of Organic Chemistry</i> , 2015, 80, 3170-3175.	3.2	40
35	Copolythiophene-Derived Colorimetric and Fluorometric Sensor for Lysophosphatidic Acid Based on Multipoint Interactions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2283-2288.	8.0	39
36	Fluorescent carbon dot-gated multifunctional mesoporous silica nanocarriers for redox/enzyme dual-responsive targeted and controlled drug delivery and real-time bioimaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 117, 105-115.	4.3	37

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37	A cross-dipole stacking molecule of an anthracene derivative: integrating optical and electrical properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3068-3071.	5.5	35
38	The structure optimization of phenanthroimidazole based isomers with external quantum efficiency approaching 7% in non-doped deep-blue OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2975-2984.	5.5	35
39	Effect of dielectric layers on device stability of pentacene-based field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7268.	2.8	34
40	Interface Exciplex Anchoring the Color Stability of Solution-Processed Thermally Activated Delayed Fluorescent White Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018, 6, 1800978.	7.3	34
41	γ-Phosphonic acid organic monolayer/amorphous sol-gel hafnium oxide hybrid dielectric for low-voltage organic transistors on plastic. <i>Journal of Materials Chemistry</i> , 2009, 19, 7929.	6.7	33
42	Effect of treated temperature on structure and performance of LiCoO ₂ coated by Li ₄ Ti ₅ O ₁₂ . <i>Surface and Coatings Technology</i> , 2011, 205, 3885-3889.	4.8	32
43	Highly Efficient Nondoped Organic Light Emitting Diodes Based on Thermally Activated Delayed Fluorescence Emitter with Quantum-Well Structure. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20955-20961.	8.0	32
44	Multifunctional applications of triazine/carbazole hybrid thermally activated delayed fluorescence emitters in organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12470-12481.	5.5	30
45	Effect of the phenyl ring orientation in the polystyrene buffer layer on the performance of pentacene thin-film transistors. <i>Organic Electronics</i> , 2010, 11, 1066-1073.	2.6	29
46	n-Doping-induced efficient electron-injection for high efficiency inverted organic light-emitting diodes based on thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8400-8407.	5.5	29
47	Highly Efficient, Solution-Processed Organic Light-Emitting Diodes Based on Thermally Activated Delayed-Fluorescence Emitter with a Mixed Polymer Interlayer. <i>ACS Applied Energy Materials</i> , 2018, 1, 543-551.	5.1	29
48	Substitution Conformation Balances the Oscillator Strength and Singlet-Triplet Energy Gap for Highly Efficient D-T Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Optical Materials</i> , 2019, 7, 1801767.	7.3	29
49	Naphthyl substituted anthracene combining charge transport with light emission. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10695-10698.	5.5	28
50	Polythiophene Derivative with the Simplest Conjugated-Side-Chain of Alkenyl: Synthesis and Applications in Polymer Solar Cells and Field-Effect Transistors. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13476-13482.	2.6	27
51	Effect of Oxygen on the Electronic Structure of Highly Crystalline Picene Films. <i>Journal of the American Chemical Society</i> , 2011, 133, 10054-10057.	13.7	27
52	Ultrasensitive and selective gold film-based detection of mercury (II) in tap water using a laser scanning confocal imaging-surface plasmon resonance system in real time. <i>Biosensors and Bioelectronics</i> , 2013, 47, 391-395.	10.1	27
53	Low-voltage high-performance organic thin film transistors with a thermally annealed polystyrene/hafnium oxide dielectric. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	26
54	Highly efficient white light-emitting diodes with a bi-component emitting layer based on blue and yellow thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2951-2956.	5.5	26

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55	Nanosized Carbon Macrocycles Based on a Planar Chiral Pseudo <i>meta</i> -[2.2]Paracyclophane. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	26
56	Organic field-effect transistors based on Langmuir-Blodgett films of an extended porphyrin analogue α -Cyclo[6]pyrrole. <i>Chemical Physics Letters</i> , 2005, 414, 369-373.	2.6	23
57	Tuning the threshold voltage by inserting a thin molybdenum oxide layer into organic field-effect transistors. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	23
58	Turn-on fluorescence sensor based on the aggregation of pyrazolo[3,4-b]pyridine-based coumarin chromophores induced by Hg ²⁺ . <i>Tetrahedron Letters</i> , 2013, 54, 6447-6449.	1.4	23
59	Intermolecular Interaction-Induced Thermally Activated Delayed Fluorescence Based on a Thiochromone Derivative. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1888-1893.	4.6	23
60	High-Efficiency Red-Fluorescent Organic Light-Emitting Diodes with Excellent Color Purity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1980-1989.	3.1	22
61	Organic Field-Effect Transistors with a Low Pinch-Off Voltage and a Controllable Threshold Voltage. <i>Advanced Materials</i> , 2008, 20, 611-615.	21.0	21
62	Stable deep blue organic light emitting diodes with CIE of $y < 0.10$ based on quinazoline and carbazole units. <i>Chinese Chemical Letters</i> , 2020, 31, 1188-1192.	9.0	21
63	Reduction of the singlet-triplet energy gap of a thermally activated delayed fluorescence emitter by molecular interaction between the host and the emitter. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10776-10780.	5.5	20
64	Aromaticamide-Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2017, 129, 8944-8948.	2.0	20
65	Molecular engineering of thermally activated delayed fluorescence emitters to concurrently achieve high performance and reduced efficiency roll-off in organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9966-9974.	5.5	20
66	Solution-processed white organic light-emitting diodes with bi-component emitting layer based on symmetry blue spiro-sulfone derivative. <i>Organic Electronics</i> , 2019, 71, 24-30.	2.6	19
67	Polymer gate dielectrics with self-assembled monolayers for high-mobility organic thin-film transistors based on copper phthalocyanine. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 777-780.	2.3	18
68	High-Performance, Low-Operating Voltage Organic Field-Effect Transistors with Low Pinch-Off Voltages. <i>Advanced Functional Materials</i> , 2008, 18, 810-815.	14.9	17
69	Tuning Charge Balance in Solution-Processable Bipolar Triphenylamine-diazafluorene Host Materials for Phosphorescent Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9445-9452.	8.0	17
70	Metal-Free Room-Temperature Phosphorescence from Amorphous Triarylborane-Based Biphenyl. <i>Organometallics</i> , 2020, 39, 4153-4158.	2.3	17
71	Two-Channel Space Charge Transfer-Induced Thermally Activated Delayed Fluorescent Materials for Efficient OLEDs with Low Efficiency Roll-Off. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49066-49075.	8.0	17
72	Nonvolatile memory devices based on carbon nano-dot doped poly(vinyl alcohol) composites with low operation voltage and high ON/OFF ratio. <i>RSC Advances</i> , 2015, 5, 26886-26890.	3.6	16

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73	White organic light emitting diodes based on a yellow thermally activated delayed fluorescent emitter and blue fluorescent emitter. <i>RSC Advances</i> , 2015, 5, 59137-59141.	3.6	16
74	Pyridine linked fluorene hybrid bipolar host for blue, green, and orange phosphorescent organic light-emitting diodes toward solution processing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11937-11946.	5.5	15
75	Facile fabrication of conducting hollow carbon nanofibers/Si composites for copper phthalocyanine-based field effect transistors and high performance lithium-ion batteries. <i>RSC Advances</i> , 2012, 2, 8323.	3.6	14
76	Highly efficient inverted organic light-emitting diodes based on thermally activated delayed fluorescence. <i>Science China Materials</i> , 2016, 59, 421-426.	6.3	14
77	Novel thioxanthone host material with thermally activated delayed fluorescence for reduced efficiency roll-off of phosphorescent OLEDs. <i>Chinese Chemical Letters</i> , 2018, 29, 471-474.	9.0	14
78	Highly Efficient, Red Delayed Fluorescent Emitters with Exothermic Reverse Intersystem Crossing via Hot Excited Triplet States. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20816-20826.	3.1	14
79	Noncoplanar organic field-effect transistor based on copper phthalocyanine. <i>Applied Physics Letters</i> , 2006, 88, 121907.	3.3	13
80	Novel spironaphthalenone-based host materials for efficient red phosphorescent and thermally activated delayed fluorescent OLEDs. <i>Organic Electronics</i> , 2018, 61, 376-382.	2.6	13
81	Angular-Fused Dithianaphthylquinone Derivative: Selective Synthesis, Thermally Activated Delayed Fluorescence Property, and Application in Organic Light-Emitting Diode. <i>Organic Letters</i> , 2019, 21, 8832-8836.	4.6	11
82	Image-force effects on energy level alignment at electron transport material/cathode interfaces. <i>Journal of Materials Chemistry C</i> , 2020, 8, 173-179.	5.5	11
83	Creating Side Transport Pathways in Organic Solar Cells by Introducing Delayed Fluorescence Molecules. <i>Chemistry of Materials</i> , 2021, 33, 4578-4585.	6.7	11
84	Rational strategy of exciplex-type thermally activated delayed fluorescent (TADF) emitters: Stacking of donor and acceptor units of the intramolecular TADF molecule. <i>Chemical Engineering Journal</i> , 2022, 433, 133546.	12.7	11
85	Modulating Non-radiative Deactivation via Acceptor Reconstruction to Expand High-efficient Red Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	11
86	Tunable dwell time in gated silicene nanostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 502-508.	2.1	10
87	Dual-acceptor thermally activated delayed fluorescence emitters: Achieving high efficiency and long lifetime in orange-red OLEDs. <i>Chemical Engineering Journal</i> , 2022, 434, 134728.	12.7	10
88	Structure-dependent band dispersion in epitaxial anthracene films. <i>Journal of Chemical Physics</i> , 2011, 135, 124709.	3.0	9
89	High efficiency, high color rendering index white organic light-emitting diodes based on thermally activated delayed fluorescence materials. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	9
90	Benzothiadiazole based "hot exciton" materials for red electroluminescence with the maximum external quantum efficiency approaching 10%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8684-8693.	5.5	9

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91	Stacks of Nucleic Acids as Molecular Wires: Direct Measurement of the Intermolecular Band Dispersion in Multilayer Guanine Assemblies. <i>Journal of the American Chemical Society</i> , 2010, 132, 12808-12810.	13.7	8
92	Pyrimidine-based thermally activated delayed fluorescent materials with unique asymmetry for highly-efficient organic light-emitting diodes. <i>Dyes and Pigments</i> , 2022, 203, 110373.	3.7	8
93	Thin-film encapsulation of organic electronic devices based on vacuum evaporated lithium fluoride as protective buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	7
94	Design of Efficient Exciplex Emitters by Decreasing the Energy Gap Between the Local Excited Triplet (3LE) State of the Acceptor and the Charge Transfer (CT) States of the Exciplex. <i>Frontiers in Chemistry</i> , 2019, 7, 188.	3.6	7
95	Malononitrile based ternary AIE-ML materials: Experimental proof for emission switch from non-TADF to TADF. <i>Organic Electronics</i> , 2021, 88, 106003.	2.6	7
96	Nearly 100% exciton utilization in highly efficient red OLEDs based on dibenzothioxanthone acceptor. <i>Chinese Chemical Letters</i> , 2022, 33, 4645-4648.	9.0	7
97	Benzo[4,5]thieno[2,3-b]benzofurans: synthesis, properties and application in electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8796-8803.	5.5	6
98	Molecular order, charge injection efficiency and the role of intramolecular polar bonds at organic/organic heterointerfaces. <i>Organic Electronics</i> , 2012, 13, 1853-1858.	2.6	5
99	Vacuum-deposited organic solar cells utilizing a low-bandgap non-fullerene acceptor. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2569-2574.	5.5	5
100	High Efficiency and Stable Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence Emitter. <i>Chinese Physics Letters</i> , 2016, 33, 088501.	3.3	4
101	Field-effect transistors with good performance using new electron donor-acceptor molecules as the active layers. <i>Chemical Physics Letters</i> , 2006, 431, 370-374.	2.6	3
102	Red Fluorescent Organic Light-Emitting Diodes with Low-Efficiency Roll-Off. <i>Energy & Fuels</i> , 0, , .	5.1	3
103	Stable organic light-emitting diodes based on thioxanthone derivative with shortened photoluminescence delayed lifetime. <i>Organic Electronics</i> , 2022, 104, 106490.	2.6	2
104	Intermolecular band dispersion in quasi-one-dimensional adenine assemblies. <i>Chemical Communications</i> , 2011, 47, 12349.	4.1	1
105	Theranostics: Carbon Dots with Intrinsic Theranostic Properties for Bioimaging, Red-Light-Triggered Photodynamic/Photothermal Simultaneous Therapy In Vitro and In Vivo (Adv. Healthcare Mater.) TJ ETQq1 1 0.784314 rgBT /@overlock		
106	Sensitized Fluorescence Organic Light-Emitting Diodes with Reduced Efficiency Roll-off. <i>Organic Materials</i> , 0, 3, .	2.0	0