

Ya-Kun Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6688121/publications.pdf>

Version: 2024-02-01

38
papers

4,277
citations

257357

24
h-index

345118

36
g-index

38
all docs

38
docs citations

38
times ranked

4825
citing authors

#	ARTICLE	IF	CITATIONS
1	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , 2020, 15, 668-674.	15.6	541
2	Thermal nonequilibrium of strained black CsPbI ₃ thin films. <i>Science</i> , 2019, 365, 679-684.	6.0	444
3	Distribution control enables efficient reduced-dimensional perovskite LEDs. <i>Nature</i> , 2021, 599, 594-598.	13.7	358
4	Bright high-colour-purity deep-blue carbon dot light-emitting diodes via efficient edge amination. <i>Nature Photonics</i> , 2020, 14, 171-176.	15.6	303
5	Over 10% EQE Near-Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2017, 27, 1700986.	7.8	236
6	Dopant-Free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Advanced Functional Materials</i> , 2016, 26, 1375-1381.	7.8	226
7	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized CsPbI ₃ Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16164-16170.	7.2	210
8	Enhanced optical path and electron diffusion length enable high-efficiency perovskite tandems. <i>Nature Communications</i> , 2020, 11, 1257.	5.8	180
9	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. <i>Journal of the American Chemical Society</i> , 2020, 142, 17756-17765.	6.6	174
10	Pure Hydrocarbon Hosts for ~100% Exciton Harvesting in Both Phosphorescent and Fluorescent Light-Emitting Devices. <i>Advanced Materials</i> , 2015, 27, 4213-4217.	11.1	165
11	White Organic LED with a Luminous Efficacy Exceeding 100 lm W ⁻¹ without Light Out-Coupling Enhancement Techniques. <i>Advanced Functional Materials</i> , 2017, 27, 1701314.	7.8	157
12	Combining Efficiency and Stability in Mixed Tin-Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. <i>Advanced Materials</i> , 2020, 32, e1907058.	11.1	148
13	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , 2020, 7, 1903213.	5.6	146
14	Color-pure red light-emitting diodes based on two-dimensional lead-free perovskites. <i>Science Advances</i> , 2020, 6, .	4.7	135
15	Chloride Insertion-Immobilization Enables Bright, Narrowband, and Stable Blue-Emitting Perovskite Diodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 5126-5134.	6.6	116
16	Chelating-agent-assisted control of CsPbBr ₃ quantum well growth enables stable blue perovskite emitters. <i>Nature Communications</i> , 2020, 11, 3674.	5.8	112
17	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. <i>Journal of the American Chemical Society</i> , 2021, 143, 15606-15615.	6.6	94
18	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiro-Based Skeleton for High Power Efficiency and Low Roll-Off Blue and White Phosphorescent Devices. <i>Advanced Functional Materials</i> , 2016, 26, 7929-7936.	7.8	84

#	ARTICLE	IF	CITATIONS
19	In Situ Inorganic Ligand Replenishment Enables Bandgap Stability in Mixed-Halide Perovskite Quantum Dot Solids. <i>Advanced Materials</i> , 2022, 34, e2200854.	11.1	82
20	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. <i>Advanced Optical Materials</i> , 2020, 8, 1901150.	3.6	67
21	Tilted Spiro-Type Thermally Activated Delayed Fluorescence Host for $\sim 100\%$ Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. <i>Advanced Functional Materials</i> , 2018, 28, 1706228.	7.8	62
22	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. <i>Organic Letters</i> , 2017, 19, 3155-3158.	2.4	51
23	Quantum Dot Self-Assembly Enables Low-Threshold Lasing. <i>Advanced Science</i> , 2021, 8, e2101125.	5.6	28
24	Management of excitons for highly efficient organic light-emitting diodes with reduced triplet exciton quenching: synergistic effects of exciplex and quantum well structure. <i>Journal of Materials Chemistry C</i> , 2018, 6, 342-349.	2.7	27
25	D-A-Type Emitter Featuring Benzo[c][1,2,5]thiadiazole and Polar C- $\frac{1}{2}$ N Bond as Tandem Acceptor for High-Performance Near-Infrared Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017, 5, 1700566.	3.6	22
26	A facile way to synthesize high-triplet-energy hosts for blue phosphorescent organic light-emitting diodes with high glass transition temperature and low driving voltage. <i>Dyes and Pigments</i> , 2015, 122, 6-12.	2.0	19
27	Thermally activated delayed fluorescence sensitizer for D-A type emitters with orange-red light emission. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10030-10035.	2.7	17
28	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with D-A type emitters. <i>Materials Chemistry Frontiers</i> , 2019, 3, 161-167.	3.2	15
29	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19042-19047.	4.0	12
30	Donor-spiro-acceptor architecture for green thermally activated delayed fluorescence (TADF) emitter. <i>Organic Electronics</i> , 2020, 77, 105520.	1.4	11
31	Deep-blue thermally activated delayed fluorescence materials with high glass transition temperature. <i>Journal of Luminescence</i> , 2019, 206, 146-153.	1.5	9
32	Energy Transfer between Size-Controlled CsPbI ₃ Quantum Dots for Light-Emitting Diode Application. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17691-17697.	4.0	9
33	Self-Aligned Non-Centrosymmetric Conjugated Molecules Enable Electro-Optic Perovskites. <i>Advanced Optical Materials</i> , 0, , 2100730.	3.6	6
34	One-shot triphenylamine/phenylketone hybrid as a bipolar host material for efficient red phosphorescent organic light-emitting diodes. <i>Synthetic Metals</i> , 2019, 254, 42-48.	2.1	4
35	Exciplex host coupled with a micro-cavity enabling high efficiency OLEDs with narrow emission profile. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5666-5671.	2.7	4
36	Single-Layer Sheets of Alkylammonium Lead Iodide Perovskites with Tunable and Stable Green Emission for White Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	2

#	ARTICLE	IF	CITATIONS
37	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized FAPbI_3 Perovskite. <i>Angewandte Chemie</i> , 2021, 133, 16300-16306.	1.6	1
38	Efficient red organic LEDs via combination of exciplex host and micro-cavity. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	0