Ya-Kun Wang

List of Publications by Year
in descending order

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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	Exciplex host coupled with a micro-cavity enabling high efficiency OLEDs with narrow emission profile. Journal of Materials Chemistry C, 2022, 10, 5666-5671.	2.7	4
2	In Situ Inorganic Ligand Replenishment Enables Bandgap Stability in Mixedâ€Halide Perovskite Quantum Dot Solids. Advanced Materials, 2022, 34, e2200854.	11.1	82
3	Energy Transfer between Size-Controlled CsPbI₃ Quantum Dots for Light-Emitting Diode Application. ACS Applied Materials & Interfaces, 2022, 14, 17691-17697.	4.0	9
4	Singleâ€Layer Sheets of Alkylammonium Lead Iodide Perovskites with Tunable and Stable Green Emission for White Lightâ€Emitting Devices. Advanced Optical Materials, 2022, 10, .	3.6	2
5	Electro-Optic Modulation Using Metal-Free Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 19042-19047.	4.0	12
6	Allâ€Inorganic Quantumâ€Dot LEDs Based on a Phaseâ€Stabilized Îąâ€CsPbI 3 Perovskite. Angewandte Chemie, 2021, 133, 16300-16306.	1.6	1
7	Allâ€Inorganic Quantumâ€Dot LEDs Based on a Phaseâ€Stabilized Îąâ€CsPbI₃ Perovskite. Angewandte Chemie - International Edition, 2021, 60, 16164-16170.	7.2	210
8	Quantum Dot Selfâ€Assembly Enables Lowâ€Threshold Lasing. Advanced Science, 2021, 8, e2101125.	5.6	28
9	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. Journal of the American Chemical Society, 2021, 143, 15606-15615.	6.6	94
10	Distribution control enables efficient reduced-dimensional perovskite LEDs. Nature, 2021, 599, 594-598.	13.7	358
11	Donor-spiro-acceptor architecture for green thermally activated delayed fluorescence (TADF) emitter. Organic Electronics, 2020, 77, 105520.	1.4	11
12	Bright high-colour-purity deep-blue carbon dot light-emitting diodes via efficient edge amination. Nature Photonics, 2020, 14, 171-176.	15.6	303
13	Through Space Charge Transfer for Efficient Skyâ€Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. Advanced Optical Materials, 2020, 8, 1901150.	3.6	67
14	Color-pure red light-emitting diodes based on two-dimensional lead-free perovskites. Science Advances, 2020, 6, .	4.7	135
15	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. Journal of the American Chemical Society, 2020, 142, 17756-17765.	6.6	174
16	Chelating-agent-assisted control of CsPbBr3 quantum well growth enables stable blue perovskite emitters. Nature Communications, 2020, 11, 3674.	5.8	112
17	Chloride Insertionâ€“Immobilization Enables Bright, Narrowband, and Stable Blue-Emitting Perovskite Diodes. Journal of the American Chemical Society, 2020, 142, 5126-5134.	6.6	116
18	Enhanced optical path and electron diffusion length enable high-efficiency perovskite tandems. Nature Communications, 2020, 11, 1257.	5.8	180

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19	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. Nature Nanotechnology, 2020, 15, 668-674.	15.6	541
20	Combining Efficiency and Stability in Mixed Tinâ€“Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. Advanced Materials, 2020, 32, e1907058.	11.1	148
21	High Color Purity Leadâ€Free Perovskite Lightâ€Emitting Diodes via Sn Stabilization. Advanced Science, 2020, 7, 1903213.	5.6	146
22	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	6.0	444
23	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with Dâ€“Aâ€“A type emitters. Materials Chemistry Frontiers, 2019, 3, 161-167.	3.2	15
24	One-shot triphenylamine/phenylketone hybrid as a bipolar host material for efficient red phosphorescent organic light-emitting diodes. Synthetic Metals, 2019, 254, 42-48.	2.1	4
25	Deep-blue thermally activated delayed fluorescence materials with high glass transition temperature. Journal of Luminescence, 2019, 206, 146-153.	1.5	9
26	Tilted Spiroâ€Type Thermally Activated Delayed Fluorescence Host for â‰ˆ100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. Advanced Functional Materials, 2018, 28, 1706228.	7.8	62
27	Thermally activated delayed fluorescence sensitizer for Dâ€“Aâ€“A type emitters with orange-red light emission. Journal of Materials Chemistry C, 2018, 6, 10030-10035.	2.7	17
28	Management of excitons for highly efficient organic light-emitting diodes with reduced triplet exciton quenching: synergistic effects of exciplex and quantum well structure. Journal of Materials Chemistry C, 2018, 6, 342-349.	2.7	27
29	Over 10% EQE Nearâ€Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. Advanced Functional Materials, 2017, 27, 1700986.	7.8	236
30	Donorâ€“ƒâ€“Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. Organic Letters, 2017, 19, 3155-3158.	2.4	51
31	White Organic LED with a Luminous Efficacy Exceeding 100 lm W^{â€“1} without Light Outâ€Coupling Enhancement Techniques. Advanced Functional Materials, 2017, 27, 1701314.	7.8	157
32	Dâ€“Aâ€“Aâ€Type Emitter Featuring Benzo[c][1,2,5]thiadiazole and Polar Cï£½N Bond as Tandem Acceptor for Highâ€Performance Nearâ€Infrared Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2017, 5, 1700566.	3.6	22
33	Dopantâ€Free Spiroâ€Triphenylamine/Fluorene as Holeâ€Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. Advanced Functional Materials, 2016, 26, 1375-1381.	7.8	226
34	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiroâ€Based Skeleton for High Power Efficiency and Low Rollâ€Off Blue and White Phosphorescent Devices. Advanced Functional Materials, 2016, 26, 7929-7936.	7.8	84
35	Pure Hydrocarbon Hosts for â‰ˆ100% Exciton Harvesting in Both Phosphorescent and Fluorescent Lightâ€Emitting Devices. Advanced Materials, 2015, 27, 4213-4217.	11.1	165
36	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. Dyes and Pigments, 2015, 122, 6-12.	2.0	19

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37	Selfâ€Aligned Nonâ€Centrosymmetric Conjugated Molecules Enable Electroâ€Optic Perovskites. Advanced Optical Materials, 0, , 2100730.	3.6	6
38	Efficient red organic LEDs via combination of exciplex host and micro-cavity. Materials Chemistry Frontiers, 0, , .	3.2	0