

Ting-Zhu Wu

List of Publications by Year in descending order

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52
papers

1,807
citations

361045

20
h-index

264894

42
g-index

55
all docs

55
docs citations

55
times ranked

1381
citing authors

#	ARTICLE	IF	CITATIONS
1	Mini-LED and Micro-LED: Promising Candidates for the Next Generation Display Technology. Applied Sciences (Switzerland), 2018, 8, 1557.	1.3	498
2	Full-color monolithic hybrid quantum dot nanoring micro light-emitting diodes with improved efficiency using atomic layer deposition and nonradiative resonant energy transfer. Photonics Research, 2019, 7, 416.	3.4	116
3	Full-color micro-LED display with high color stability using semipolar (20-21) InGaN LEDs and quantum-dot photoresist. Photonics Research, 2020, 8, 630.	3.4	116
4	High-Bandwidth Green Semipolar (20-21) InGaN/GaN Micro Light-Emitting Diodes for Visible Light Communication. ACS Photonics, 2020, 7, 2228-2235.	3.2	99
5	Giant Optical Anisotropy of Perovskite Nanowire Array Films. Advanced Functional Materials, 2020, 30, 1909275.	7.8	89
6	Advances in Quantum-Dot-Based Displays. Nanomaterials, 2020, 10, 1327.	1.9	72
7	Micro-LED as a Promising Candidate for High-Speed Visible Light Communication. Applied Sciences (Switzerland), 2020, 10, 7384.	1.3	69
8	Highly Efficient and Stable White Light-Emitting Diodes Using Perovskite Quantum Dot Paper. Advanced Science, 2019, 6, 1902230.	5.6	56
9	Perspectives on UVC LED: Its Progress and Application. Photonics, 2021, 8, 196.	0.9	51
10	Hybrid-type white LEDs based on inorganic halide perovskite QDs: candidates for wide color gamut display backlights. Photonics Research, 2019, 7, 579.	3.4	46
11	A review on the low external quantum efficiency and the remedies for GaN-based micro-LEDs. Journal Physics D: Applied Physics, 2021, 54, 153002.	1.3	42
12	The Stability of Metal Halide Perovskite Nanocrystals—A Key Issue for the Application on Quantum-Dot-Based Micro Light-Emitting Diodes Display. Nanomaterials, 2020, 10, 1375.	1.9	36
13	The Impact of Luminous Properties of Red, Green, and Blue Mini-LEDs on the Color Gamut. IEEE Transactions on Electron Devices, 2019, 66, 2263-2268.	1.6	35
14	Multi-function indoor light sources based on light-emitting diodes—a solution for healthy lighting. Optics Express, 2016, 24, 24401.	1.7	34
15	CsPbBr ₃ perovskite quantum-dot paper exhibiting a highest 3-Å bandwidth and realizing a flexible white-light system for visible-light communication. Photonics Research, 2021, 9, 2341.	3.4	30
16	All-inorganic encapsulation for remarkably stable cesium lead halide perovskite nanocrystals: toward full-color display applications. Journal of Materials Chemistry C, 2021, 9, 12303-12313.	2.7	25
17	Research on a Camera-Based Microscopic Imaging System to Inspect the Surface Luminance of the Micro-LED Array. IEEE Access, 2018, 6, 51329-51336.	2.6	24
18	Highly stable full-color display device with VLC application potential using semipolar 1/4 LEDs and all-inorganic encapsulated perovskite nanocrystal. Photonics Research, 2021, 9, 2132.	3.4	24

#	ARTICLE	IF	CITATIONS
19	Spectral Optimization of Three-Primary LEDs by Considering the Circadian Action Factor. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	22
20	Analyses of multi-color plant-growth light sources in achieving maximum photosynthesis efficiencies with enhanced color qualities. Optics Express, 2018, 26, 4135.	1.7	20
21	Ultrawide Color Gamut Perovskite and CdSe/ZnS Quantum-Dots-Based White Light-Emitting Diode with High Luminous Efficiency. Nanomaterials, 2019, 9, 1314.	1.9	20
22	Ultra-High Light Extraction Efficiency and Ultra-Thin Mini-LED Solution by Freeform Surface Chip Scale Package Array. Crystals, 2019, 9, 202.	1.0	20
23	Remarkable Blackâ€Phase Robustness of CsPbI ₃ Nanocrystals Sealed in Solid SiO ₂ /AlO _x Subâ€Micron Particles. Small, 2021, 17, e2103510.	5.2	20
24	An overview on the principle of inkjet printing technique and its application in micro-display for augmented/virtual realities. Opto-Electronic Advances, 2022, 5, 210123-210123.	6.4	20
25	A Novel Liquid Packaging Structure of Deep-Ultraviolet Light-Emitting Diodes to Enhance the Light-Extraction Efficiency. Crystals, 2019, 9, 203.	1.0	19
26	Investigation on Three-Hump Phosphor-Coated White Light-Emitting Diodes for Healthy Lighting by Genetic Algorithm. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	17
27	Enhanced external quantum efficiencies of AlGaIn-based deep-UV LEDs using reflective passivation layer. Optics Express, 2021, 29, 37835.	1.7	17
28	Interplay of carriers and deep-level recombination centers of 275-nm light-emitting diodes â€” Analysis on the parasitic peaks over wide ranges of temperature and injection density. Optics Express, 2019, 27, A1060.	1.7	14
29	A Bipolar-Pulse Voltage Method for Junction Temperature Measurement of Alternating Current Light-Emitting Diodes. IEEE Transactions on Electron Devices, 2017, 64, 2326-2329.	1.6	13
30	Origins of Inhomogeneous Light Emission From GaN-Based Flip-Chip Green Micro-LEDs. IEEE Electron Device Letters, 2019, 40, 1132-1135.	2.2	12
31	Advanced Atomic Layer Deposition Technologies for Micro-LEDs and VCSELs. Nanoscale Research Letters, 2021, 16, 164.	3.1	12
32	Improvements of mesopic luminance for light-emitting-diode-based outdoor light sources via tuning scotopic/photopic ratios. Optics Express, 2017, 25, 4887.	1.7	11
33	Design and Fabrication of the Reliable GaN Based Vertical-Cavity Surface-Emitting Laser via Tunnel Junction. Crystals, 2019, 9, 187.	1.0	11
34	Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	10
35	Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	10
36	The impacts of sidewall passivation via atomic layer deposition on GaN-based flip-chip blue mini-LEDs. Journal Physics D: Applied Physics, 2022, 55, 374001.	1.3	10

#	ARTICLE	IF	CITATIONS
37	Assessment and Optimization of the Circadian Performance of Smartphone-Based Virtual Reality Displays. IEEE Journal of the Electron Devices Society, 2019, 7, 358-367.	1.2	9
38	Determining Junction Temperature of LEDs by the Relative Reflected Intensity of the Incident Exciting Light. IEEE Transactions on Electron Devices, 2017, 64, 2257-2260.	1.6	8
39	Stability of Hybrid Organic-Inorganic Perovskite CH ₃ NH ₃ PbBr ₃ Nanocrystals under Co-Stresses of UV Light Illumination and Temperature. Nanomaterials, 2019, 9, 1158.	1.9	8
40	Study on color-tunable phosphor-coated white light-emitting diodes with high S/P ratios. AIP Advances, 2016, 6, 035127.	0.6	7
41	Evolution of crystal imperfections during current-stress ageing tests of green InGaN light-emitting diodes. Applied Physics Express, 2016, 9, 092101.	1.1	6
42	Two-Dimensional Pixel-Level Photometric and Colorimetric Mass-Distribution Measurement of Micro-Displays. IEEE Electron Device Letters, 2021, 42, 720-722.	2.2	6
43	Thermal behavior of AlGaN-based deep-UV LEDs. Optics Express, 2022, 30, 16827.	1.7	6
44	Investigation on Key Parameters in the Fabrication of Stamps for Transfer Printing of Micro Devices. Applied Sciences (Switzerland), 2020, 10, 4604.	1.3	3
45	Quantum-dot-based full-color micro-LED displays. Semiconductors and Semimetals, 2021, , 173-201.	0.4	3
46	Remote Online Two-Step Stress Lifetime Acceleration Test System for Ultraviolet Light-Emitting Diodes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	2.4	3
47	On the exciton-assisted radiative recombination via impurity trap levels in AlGaN deep ultraviolet light-emitting diodes. Nanotechnology, 2021, 32, 375204.	1.3	3
48	An introduction on microscopic-hyperspectral imaging for GaN-based LED investigation. , 2018, , .		2
49	20.1: Invited Paper: Monolithic Full-color Quantum Dot Nanoring Micro LEDs with Improved Efficiency. Digest of Technical Papers SID International Symposium, 2019, 50, 191-193.	0.1	1
50	Multi-Azimuth Failure Mechanisms in Phosphor-Coated White LEDs by Current Aging Stresses. Applied Sciences (Switzerland), 2018, 8, 610.	1.3	0
51	Multichannel Optical Fiber Spectral and Imaging System for Pixel-Level Measurement of Display. IEEE Photonics Technology Letters, 2020, 32, 271-274.	1.3	0
52	18.2: Invited Paper: Semipolar Micro-LED for Full-color Display and Visible Light Communication. Digest of Technical Papers SID International Symposium, 2021, 52, 239-241.	0.1	0