Ya-Ju Lee

List of Publications by Year in descending order

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72 papers	2,014 citations	218592 26 h-index	254106 43 g-index
74 all docs	74 docs citations	74 times ranked	2479 citing authors

#	Article	IF	Citations
1	CsPbBr₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. ACS Photonics, 2017, 4, 2281-2289.	3.2	243
2	Enhancing the output power of GaN-based LEDs grown on wet-etched patterned sapphire substrates. IEEE Photonics Technology Letters, 2006, 18, 1152-1154.	1.3	231
3	Study of the Excitation Power Dependent Internal Quantum Efficiency in InGaN/GaN LEDs Grown on Patterned Sapphire Substrate. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1137-1143.	1.9	113
4	Increasing the extraction efficiency of AlGaInP LEDs via n-side surface roughening. IEEE Photonics Technology Letters, 2005, 17, 2289-2291.	1.3	73
5	All-inorganic perovskite quantum dot light-emitting memories. Nature Communications, 2021, 12, 4460.	5.8	62
6	Improvement in light-output efficiency of near-ultraviolet InGaNâ€“GaN LEDs fabricated on stripe patterned sapphire substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 122, 184-187.	1.7	59
7	Monolithic integration of GaN-based light-emitting diodes and metal-oxide-semiconductor field-effect transistors. Optics Express, 2014, 22, A1589.	1.7	55
8	Enhanced external quantum efficiency in GaN-based vertical-type light-emitting diodes by localized surface plasmons. Scientific Reports, 2016, 6, 22659.	1.6	50
9	A curvature-tunable random laser. Nanoscale, 2019, 11, 3534-3545.	2.8	50
10	Flexible random lasers with tunable lasing emissions. Nanoscale, 2018, 10, 10403-10411.	2.8	49
11	High Light-Extraction GaN-Based Vertical LEDs With Double Diffuse Surfaces. IEEE Journal of Quantum Electronics, 2006, 42, 1196-1201.	1.0	47
12	Reduction in the Efficiency-Droop Effect of InGaN Green Light-Emitting Diodes Using Gradual Quantum Wells. IEEE Photonics Technology Letters, 2010, 22, 1506-1508.	1.3	46
13	High Brightness GaN-Based Light-Emitting Diodes. Journal of Display Technology, 2007, 3, 118-125.	1.3	43
14	Dichromatic InGaN-based white light emitting diodes by using laser lift-off and wafer-bonding schemes. Applied Physics Letters, 2007, 90, 161115.	1.5	42
15	High output power density from GaN-based two-dimensional nanorod light-emitting diode arrays. Applied Physics Letters, 2009, 94, 141111.	1.5	42
16	Fabrication and Characterization of GaN-Based LEDs Grown on Chemical Wet-Etched Patterned Sapphire Substrates. Journal of the Electrochemical Society, 2006, 153, G1106.	1.3	41
17	Coherent and Polarized Random Laser Emissions from Colloidal CdSe/ZnS Quantum Dots Plasmonically Coupled to Ellipsoidal Ag Nanoparticles. Advanced Optical Materials, 2017, 5, 1600746.	3.6	39
18	Enhanced conversion efficiency of InGaN multiple quantum well solar cells grown on a patterned sapphire substrate. Applied Physics Letters, 2011, 98, .	1.5	36

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19	Study of GaN-Based Light-Emitting Diodes Grown on Chemical Wet-Etching-Patterned Sapphire Substrate With V-Shaped Pits Roughening Surfaces. Journal of Lightwave Technology, 2008, 26, 1455-1463.	2.7	35
20	Monitoring of wound healing process of human skin after fractional laser treatments with optical coherence tomography. Biomedical Optics Express, 2013, 4, 2362.	1.5	34
21	High breakdown voltage in AlGaN/GaN HEMTs using AlGaN/GaN/AlGaN quantum-well electron-blocking layers. Nanoscale Research Letters, 2014, 9, 433.	3.1	31
22	Noninvasive structural and microvascular anatomy of oral mucosae using handheld optical coherence tomography. Biomedical Optics Express, 2017, 8, 5001.	1.5	31
23	Determination of Junction Temperature in InGaN and AlGaInP Light-Emitting Diodes. IEEE Journal of Quantum Electronics, 2010, 46, 1450-1455.	1.0	29
24	Slanted n-ZnO/p-GaN nanorod arrays light-emitting diodes grown by oblique-angle deposition. APL Materials, 2014, 2, 056101.	2.2	27
25	Enhancing UV-emissions through optical and electronic dual-function tuning of Ag nanoparticles hybridized with n-ZnO nanorods/p-GaN heterojunction light-emitting diodes. Nanoscale, 2016, 8, 4463-4474.	2.8	27
26	Early detection of enamel demineralization by optical coherence tomography. Scientific Reports, 2019, 9, 17154.	1.6	27
27	Defect detection and property evaluation of indium tin oxide conducting glass using optical coherence tomography. Optics Express, 2011, 19, 7559.	1.7	23
28	Enhanced Performance of GaN-based Ultraviolet Light Emitting Diodes by Photon Recycling Using Graphene Quantum Dots. Scientific Reports, 2017, 7, 7108.	1.6	23
29	Enhancing the conversion efficiency of red emission by spin-coating CdSe quantum dots on the green nanorod light-emitting diode. Optics Express, 2010, 18, A554.	1.7	21
30	Effect of Surface Texture and Backside Patterned Reflector on the AlGaInP Light-Emitting Diode: High Extraction of Waveguided Light. IEEE Journal of Quantum Electronics, 2011, 47, 636-641.	1.0	21
31	Achieving graded refractive index by use of ZnO nanorods/TiO2 layer to enhance omnidirectional photovoltaic performances of InGaP/GaAs/Ge triple-junction solar cells. Solar Energy Materials and Solar Cells, 2015, 136, 17-24.	3.0	21
32	Enhancing extracted electroluminescence from light-emitting electrochemical cells by employing high-refractive-index substrates. Organic Electronics, 2017, 51, 149-155.	1.4	20
33	Evaluation of Laser-Assisted Trans-Nail Drug Delivery with Optical Coherence Tomography. Sensors, 2016, 16, 2111.	2.1	19
34	Optical inspection of solar cells using phase-sensitive optical coherence tomography. Solar Energy Materials and Solar Cells, 2015, 136, 193-199.	3.0	18
35	A demonstration of solid-state white light-emitting electrochemical cells using the integrated on-chip plasmonic notch filters. Journal of Materials Chemistry C, 2016, 4, 1599-1605.	2.7	18
36	Elucidating the Physical Property of the InGaN Nanorod Light-Emitting Diode: Large Tunneling Effect. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 985-989.	1.9	17

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37	Flexible and Ultranarrow Transmissive Color Filters by Simultaneous Excitations of Triple Resonant Eigenmodes in Hybrid Metallicâ€“Optical Tamm State Devices. ACS Photonics, 2021, 8, 540-549.	3.2	17
38	Use of two-dimensional nanorod arrays with slanted ITO film to enhance optical absorption for photovoltaic applications. Optics Express, 2012, 20, 3479.	1.7	16
39	Direct electrical contact of slanted ITO film on axial p-n junction silicon nanowire solar cells. Optics Express, 2013, 21, A7.	1.7	16
40	Large enhancement of light-extraction efficiency from optically pumped, nanorod light-emitting diodes. Optics Letters, 2009, 34, 2078.	1.7	15
41	Laser-Scanned Programmable Color Temperature of Electroluminescence from White Light-Emitting Electrochemical Cells. ACS Applied Materials & Interfaces, 2016, 8, 31799-31805.	4.0	14
42	Current matching using CdSe quantum dots to enhance the power conversion efficiency of InGaP/GaAs/Ge tandem solar cells. Optics Express, 2013, 21, A953.	1.7	13
43	Tuning the Emission Wavelength of Lead Halide Perovskite NCs via Size and Shape Control. ACS Omega, 2022, 7, 565-577.	1.6	13
44	Giant enhancement of inverted polymer solar cells efficiency by manipulating dual interlayers with integrated approaches. RSC Advances, 2015, 5, 1549-1556.	1.7	12
45	Direct formation of InN-codoped p-ZnO/n-GaN heterojunction diode by solgel spin-coating scheme. Optics Letters, 2014, 39, 805.	1.7	11
46	Slanted n-ZnO nanorod arrays/p-GaN light-emitting diodes with strong ultraviolet emissions. Optical Materials Express, 2015, 5, 399.	1.6	10
47	Improving color saturation of blue light-emitting electrochemical cells by plasmonic filters. Organic Electronics, 2017, 51, 70-75.	1.4	10
48	Efficient collection of photogenerated carriers by inserting double tunnel junctions in III-nitride p-i-n solar cells. Applied Physics Letters, 2013, 103, 193503.	1.5	9
49	Optical coherence tomography-guided laser microsurgery for blood coagulation with continuous-wave laser diode. Scientific Reports, 2015, 5, 16739.	1.6	8
50	Monolithic integration of GaN-based light-emitting diodes and metal-oxide-semiconductor field-effect transistors: reply. Optics Express, 2018, 26, A110.	1.7	8
51	Graphene Quantum Dot Vertical Cavity Surface-Emitting Lasers. ACS Photonics, 2019, 6, 2894-2901.	3.2	8
52	Numerical Analysis on Polarization-Induced Doping III-Nitride n-i-p Solar Cells. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	7
53	Stable Temperature Characteristics and Suppression of Efficiency Droop in InGaN Green Light-Emitting Diodes Using Pre-TMIn Flow Treatment. IEEE Photonics Technology Letters, 2010, 22, 1279-1281.	1.3	6
54	Effect of nanostructured architecture on the enhanced optical absorption in silicon thin-film solar cells. Journal of Electromagnetic Waves and Applications, 2012, 26, 1798-1807.	1.0	6

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55	Quantitative Phase Imaging With Swept-Source Optical Coherence Tomography for Optical Measurement of Nanostructures. IEEE Photonics Technology Letters, 2012, 24, 640-642.	1.3	6
56	Characteristics of low-resistivity aluminum-doped zinc oxide films deposited at room temperature by off-axis radio-frequency sputtering on flexible plastic substrates. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6
57	Direct formation of transfer-free graphene as current spreading layers on n-ZnO nanorods/p-GaN light-emitting diodes. Applied Physics Express, 2018, 11, 075103.	1.1	6
58	A strain-gauge random laser. APL Materials, 2019, 7, .	2.2	6
59	Improvement of quantum efficiency in green light-emitting diodes with pre-TMIn flow treatment. Journal Physics D: Applied Physics, 2011, 44, 224015.	1.3	5
60	Manipulation of polarization effect to engineer III-nitride HEMTs for normally-off operation. Microelectronic Engineering, 2015, 138, 1-6.	1.1	5
61	Estimating the Junction Temperature of InGaN and AlGaInP Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 04DG18.	0.8	4
62	Local nanotip arrays sculptured by atomic force microscopy to enhance the light-output efficiency of GaN-based light-emitting diode structures. Nanotechnology, 2014, 25, 195401.	1.3	4
63	Determination on the Coefficient of Thermal Expansion in High-Power InGaN-based Light-emitting Diodes by Optical Coherence Tomography. Scientific Reports, 2017, 7, 14390.	1.6	4
64	Estimating the Junction Temperature of InGaN and AlGaInP Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 04DG18.	0.8	3
65	Optical Coherence Tomography/Angiography-Guided Tumor Ablation With a Continuous-Wave Laser Diode. IEEE Access, 2020, 8, 43191-43199.	2.6	2
66	Suppression of efficiency-droop effect of InGaN-based LEDs by using localized high indium quantum wells. Proceedings of SPIE, 2012, , .	0.8	0
67	Plasmonically Induced Coherent and Polarized Random Laser Emissions in Colloidal CdSe/ZnS Quantum Dots with Ellipsoidal Ag Nanoparticles. , 2017, , .		0
68	Using Optical Coherence Tomography to Identify of Oral Mucosae with 3D-Printing Probe. Smart Innovation, Systems and Technologies, 2018, , 161-166.	0.5	0
69	Determination of Coefficient of Thermal Expansion in High Power GaN-Based Light-Emitting Diodes via Optical Coherent Tomography. Smart Innovation, Systems and Technologies, 2018, , 147-152.	0.5	0
70	Directly Determining the Coefficient of Thermal Expansion of High-power Light-emitting Diodes by Optical Coherence Tomography. , 2018, , .		0
71	Tunable random lasing emissions by manipulating plasmonic coupling strengths on flexible substrates. , 2018, , .		0
72	Bending-induced tunable threshold in random laser. , 2019, , .		0