

# Scott Watson

## List of Publications by Year in descending order

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52  
papers

2,127  
citations

623734

14  
h-index

677142

22  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1899  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $\mu\text{m LED}$ . IEEE Photonics Technology Letters, 2014, 26, 637-640.	2.5	722
2	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. IEEE Photonics Technology Letters, 2016, 28, 2023-2026.	2.5	276
3	Towards 10 <sup>6</sup> Gb/s orthogonal frequency division multiplexing-based visible light communication using a GaN violet micro-LED. Photonics Research, 2017, 5, A35.	7.0	275
4	1.5 Gbit/s Multi-Channel Visible Light Communications Using CMOS-Controlled GaN-Based LEDs. Journal of Lightwave Technology, 2013, 31, 1211-1216.	4.6	163
5	Active-Matrix GaN Micro Light-Emitting Diode Display With Unprecedented Brightness. IEEE Transactions on Electron Devices, 2015, 62, 1918-1925.	3.0	118
6	Visible light communications using a directly modulated 422 <sup>nm</sup> GaN laser diode. Optics Letters, 2013, 38, 3792.	3.3	110
7	Characteristics and applications of micro-pixelated GaN-based light emitting diodes on Si substrates. Journal of Applied Physics, 2014, 115, .	2.5	92
8	Temperature-dependent efficiency droop of blue InGa <sub>N</sub> micro-light emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	50
9	CMOS-Controlled Color-Tunable Smart Display. IEEE Photonics Journal, 2012, 4, 1639-1646.	2.0	44
10	Hybrid GaN LED with capillary-bonded InGaN MQW color-converting membrane for visible light communications. Semiconductor Science and Technology, 2015, 30, 035012.	2.0	28
11	Continuous-wave operation of (Al,In)Ga <sub>N</sub> distributed-feedback laser diodes with high-order notched gratings. Applied Physics Express, 2018, 11, 112701.	2.4	28
12	Gb/s Visible Light Communications With Colloidal Quantum Dot Color Converters. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-10.	2.9	25
13	AlGaInN laser diode technology for GHz high-speed visible light communication through plastic optical fiber and water. Optical Engineering, 2016, 55, 026112.	1.0	19
14	Sub-megahertz linewidth 780.24 <sup>nm</sup> distributed feedback laser for <sup>87</sup> Rb applications. Optics Letters, 2020, 45, 3529.	3.3	18
15	Resonant tunneling diode photodetectors for optical communications. Microwave and Optical Technology Letters, 2019, 61, 1121-1125.	1.4	14
16	Optical direct intensity modulation of a 79GHz resonant tunneling diode-photodetector oscillator. Optics Express, 2019, 27, 16791.	3.4	13
17	Distributed feedback InGa <sub>N</sub> /Ga <sub>N</sub> laser diodes. , 2018, , .		12
18	AlGaInN laser diode technology for defence, security and sensing applications. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
19	Assessment of laser tracking and data transfer for underwater optical communications. , 2014, , .		11
20	GaN Laser Diode Technology for Visible-Light Communications. Electronics (Switzerland), 2022, 11, 1430.	3.1	11
21	Laser based underwater communication systems. , 2016, , .		10
22	Directly color-tunable smart display based on a CMOS-controlled micro-LED array. , 2012, , .		9
23	15 Gb/s OFDM-based VLC using direct modulation of 450 GaN laser diode. , 2017, , .		8
24	Hybrid organic/GaN photonic crystal light-emitting diode. Applied Physics Letters, 2012, 101, 141122.	3.3	6
25	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride &#x03BC;LEDs. , 2015, , .		6
26	Single-chip discrete multitone generation. , 2015, , .		6
27	Dynamic performance of detuned ridge waveguide AlInGaAs distributed feedback laser diodes. Microwave and Optical Technology Letters, 2017, 59, 1468-1470.	1.4	5
28	Pump-power-dependence of a CsPbBr <sub>3</sub> -in-Cs <sub>4</sub> PbBr <sub>6</sub> quantum dot color converter. Optical Materials Express, 2019, 9, 3504.	3.0	5
29	Recent progress in distributed feedback InGaN/GaN laser diodes. , 2019, , .		5
30	Dynamic Device Characteristics and Linewidth Measurement of InGaN/GaN Laser Diodes. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	4
31	Multi-gigabit data transmission using a directly modulated GaN laser diode for visible light communication through plastic optical fiber and water. , 2015, , .		3
32	InGaN/GaN Laser Diodes and their Applications. , 2018, , .		3
33	Resonant tunneling diode oscillators for optical communications. , 2017, , .		3
34	EML Based on Identical Epitaxial Layer, Side-Wall Grating and HSQ Planarization. IEEE Photonics Technology Letters, 2022, 34, 317-320.	2.5	3
35	High-bandwidth parallel data transmission using GaN/CMOS micro-LED arrays. , 2012, , .		2
36	Advances in single mode and high power AlGaInN laser diode technology for systems applications. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	GaN-based distributed feedback laser diodes for optical communications. , 2019, , .		2
38	High frequency modulation of a 422 nm GaN laser diode. , 2013, , .		1
39	Applications of Single Frequency Blue Lasers. , 2019, , .		1
40	Single Frequency Blue Lasers. , 2019, , .		1
41	Distributed Feedback Lasers for Quantum Cooling Applications. , 2020, , .		1
42	GaN laser diodes for quantum sensing, optical atomic clocks, and precision metrology. , 2022, , .		1
43	Electrically tuneable spectral responsivity in gated silicon photodiodes. Applied Physics Letters, 2011, 99, .	3.3	0
44	High speed GaN micro-light-emitting diode arrays for data communications. Proceedings of SPIE, 2012, , .	0.8	0
45	Characteristics and applications of InGaN micro-light emitting diodes on Si substrates. , 2013, , .		0
46	AlGaN laser diode technology and systems for defence and security applications. , 2015, , .		0
47	AlGaN laser diode technology and systems for defence and security applications. Proceedings of SPIE, 2015, , .	0.8	0
48	Optical Characteristics Analysis of Resonant Tunneling Diode Photodiode Based Oscillators. , 2018, , .		0
49	The effect of detuned wavelength in the dynamic performance of distributed feedback lasers operating at O band and C band. Microwave and Optical Technology Letters, 2020, 62, 1466-1470.	1.4	0
50	Electroabsorption Modulated Laser Based on Identical Epitaxial Layer and Transmission Line Technology. , 2021, , .		0
51	Ge-on-Si Single-Photon Avalanche Diode Detectors with Low Noise Equivalent Power in the Short-Wave Infrared. , 2021, , .		0
52	GaN laser diodes for quantum sensing. , 2020, , .		0