

# 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	EML Based on Identical Epitaxial Layer, Side-Wall Grating and HSQ Planarization. IEEE Photonics Technology Letters, 2022, 34, 317-320.	2.5	3
2	GaN laser diodes for quantum sensing, optical atomic clocks, and precision metrology. , 2022, , .		1
3	GaN Laser Diode Technology for Visible-Light Communications. Electronics (Switzerland), 2022, 11, 1430.	3.1	11
4	Dynamic Device Characteristics and Linewidth Measurement of InGaN/GaN Laser Diodes. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	4
5	Electroabsorption Modulated Laser Based on Identical Epitaxial Layer and Transmission Line Technology. , 2021, , .		0
6	Ge-on-Si Single-Photon Avalanche Diode Detectors with Low Noise Equivalent Power in the Short-Wave Infrared. , 2021, , .		0
7	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
8	Distributed Feedback Lasers for Quantum Cooling Applications. , 2020, , .		1
9	Sub-megahertz linewidth 780.24nm distributed feedback laser for <sup>87</sup> Rb applications. Optics Letters, 2020, 45, 3529.	3.3	18
10	GaN laser diodes for quantum sensing. , 2020, , .		0
11	Applications of Single Frequency Blue Lasers. , 2019, , .		1
12	Resonant tunneling diode photodetectors for optical communications. Microwave and Optical Technology Letters, 2019, 61, 1121-1125.	1.4	14
13	Single Frequency Blue Lasers. , 2019, , .		1
14	GaN-based distributed feedback laser diodes for optical communications. , 2019, , .		2
15	Optical direct intensity modulation of a 79GHz resonant tunneling diode-photodetector oscillator. Optics Express, 2019, 27, 16791.	3.4	13
16	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
17	Recent progress in distributed feedback InGaN/GaN laser diodes. , 2019, , .		5
18	InGaN/GaN Laser Diodes and their Applications. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Continuous-wave operation of (Al,In)GaN distributed-feedback laser diodes with high-order notched gratings. Applied Physics Express, 2018, 11, 112701.	2.4	28
20	Optical Characteristics Analysis of Resonant Tunneling Diode Photodiode Based Oscillators. , 2018, , .		0
21	Distributed feedback InGaN/GaN laser diodes. , 2018, , .		12
22	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
23	Dynamic performance of detuned ridge waveguide AlInGaAs distributed feedback laser diodes. Microwave and Optical Technology Letters, 2017, 59, 1468-1470.	1.4	5
24	Towards 10 Gb/s orthogonal frequency division multiplexing-based visible light communication using a GaN violet micro-LED. Photonics Research, 2017, 5, A35.	7.0	275
25	Resonant tunneling diode oscillators for optical communications. , 2017, , .		3
26	15 Gb/s OFDM-based VLC using direct modulation of 450 GaN laser diode. , 2017, , .		8
27	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. IEEE Photonics Technology Letters, 2016, 28, 2023-2026.	2.5	276
28	Laser based underwater communication systems. , 2016, , .		10
29	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
30	AlGaInN laser diode technology and systems for defence and security applications. , 2015, , .		0
31	Active-Matrix GaN Micro Light-Emitting Diode Display With Unprecedented Brightness. IEEE Transactions on Electron Devices, 2015, 62, 1918-1925.	3.0	118
32	Advances in single mode and high power AlGaInN laser diode technology for systems applications. , 2015, , .		2
33	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
34	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride LEDs. , 2015, , .		6
35	Single-chip discrete multitone generation. , 2015, , .		6
36	AlGaInN laser diode technology and systems for defence and security applications. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Multi-gigabit data transmission using a directly modulated GaN laser diode for visible light communication through plastic optical fiber and water. , 2015, , .		3
38	Temperature-dependent efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	50
39	AlGaN laser diode technology for defence, security and sensing applications. , 2014, , .		11
40	Assessment of laser tracking and data transfer for underwater optical communications. , 2014, , .		11
41	Characteristics and applications of micro-pixelated GaN-based light emitting diodes on Si substrates. Journal of Applied Physics, 2014, 115, .	2.5	92
42	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
43	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
44	Visible light communications using a directly modulated 422Ånm GaN laser diode. Optics Letters, 2013, 38, 3792.	3.3	110
45	Characteristics and applications of InGaN micro-light emitting diodes on Si substrates. , 2013, , .		0
46	High frequency modulation of a 422 nm GaN laser diode. , 2013, , .		1
47	CMOS-Controlled Color-Tunable Smart Display. IEEE Photonics Journal, 2012, 4, 1639-1646.	2.0	44
48	Hybrid organic/GaN photonic crystal light-emitting diode. Applied Physics Letters, 2012, 101, 141122.	3.3	6
49	Directly color-tunable smart display based on a CMOS-controlled micro-LED array. , 2012, , .		9
50	High-bandwidth parallel data transmission using GaN/CMOS micro-LED arrays. , 2012, , .		2
51	High speed GaN micro-light-emitting diode arrays for data communications. Proceedings of SPIE, 2012, , .	0.8	0
52	Electrically tuneable spectral responsivity in gated silicon photodiodes. Applied Physics Letters, 2011, 99, .	3.3	0