

Martin D Dawson

List of Publications by Year in descending order

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242
papers

8,065
citations

57758

44
h-index

56724

83
g-index

248
all docs

248
docs citations

248
times ranked

6021
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $\mu\text{-LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	2.5	722
2	Visible-Light Communications Using a CMOS-Controlled Micro-Light-Emitting-Diode Array. Journal of Lightwave Technology, 2012, 30, 61-67.	4.6	279
3	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. IEEE Photonics Technology Letters, 2016, 28, 2023-2026.	2.5	276
4	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
5	Size-dependent light output, spectral shift, and self-heating of 400 nm InGaN light-emitting diodes. Journal of Applied Physics, 2010, 107, .	2.5	255
6	Size-dependent efficiency and efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2012, 101, .	3.3	222
7	Multi-site optical excitation using ChR2 and micro-LED array. Journal of Neural Engineering, 2010, 7, 016004.	3.5	218
8	High-Speed Visible Light Communications Using Individual Pixels in a Micro Light-Emitting Diode Array. IEEE Photonics Technology Letters, 2010, 22, 1346-1348.	2.5	210
9	A review of gallium nitride LEDs for multi-gigabit-per-second visible light data communications. Semiconductor Science and Technology, 2017, 32, 023001.	2.0	205
10	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	4.6	187
11	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
12	Lomeguatrib, a Potent Inhibitor of <i>6</i> -Alkylguanine-DNA-Alkyltransferase: Phase I Safety, Pharmacodynamic, and Pharmacokinetic Trial and Evaluation in Combination with Temozolomide in Patients with Advanced Solid Tumors. Clinical Cancer Research, 2006, 12, 1577-1584.	7.0	136
13	Thermal and optical characterization of micro-LED probes for in vivo optogenetic neural stimulation. Optics Letters, 2013, 38, 992.	3.3	134
14	High power CW red VECSEL with linearly polarized TEM ₀₀ output beam. Optics Express, 2005, 13, 77.	3.4	124
15	Active-Matrix GaN Micro Light-Emitting Diode Display With Unprecedented Brightness. IEEE Transactions on Electron Devices, 2015, 62, 1918-1925.	3.0	118
16	Depth-specific optogenetic control in vivo with a scalable, high-density $\frac{1}{4}$ LED neural probe. Scientific Reports, 2016, 6, 28381.	3.3	118
17	Colloidal quantum dot random laser. Optics Express, 2011, 19, 2996.	3.4	114
18	Optobionic vision—a new genetically enhanced light on retinal prosthesis. Journal of Neural Engineering, 2009, 6, 035007.	3.5	113

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19	Visible Light Communication Using a Blue GaN μ LED and Fluorescent Polymer Color Converter. IEEE Photonics Technology Letters, 2014, 26, 2035-2038.	2.5	109
20	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. IEEE Journal on Selected Areas in Communications, 2015, 33, 1750-1757.	14.0	106
21	Low-threshold organic laser based on an oligofluorene truxene with low optical losses. Applied Physics Letters, 2009, 94, .	3.3	95
22	Characteristics and applications of micro-pixelated GaN-based light emitting diodes on Si substrates. Journal of Applied Physics, 2014, 115, .	2.5	92
23	The Impact of Solar Irradiance on Visible Light Communications. Journal of Lightwave Technology, 2018, 36, 2376-2386.	4.6	89
24	1â€â€Gbps free-space deep-ultraviolet communications based on III-nitride micro-LEDs emitting at 262â€â€nm. Photonics Research, 2019, 7, B41.	7.0	84
25	Three-dimensional cross-nanowire networks recover full terahertz state. Science, 2020, 368, 510-513.	12.6	81
26	Individually Addressable AlInGaN Micro-LED Arrays With CMOS Control and Subnanosecond Output Pulses. IEEE Photonics Technology Letters, 2009, 21, 811-813.	2.5	73
27	Optogenetic activation of neocortical neurons in vivo with a sapphire-based micro-scale LED probe. Frontiers in Neural Circuits, 2015, 9, 25.	2.8	71
28	Flexible blue-emitting encapsulated organic semiconductor DFB laser. Optics Express, 2010, 18, 25535.	3.4	69
29	Broadly tunable femtosecond mode-locking in a Tm:KYW laser near 2 μ m. Optics Express, 2011, 19, 9995.	3.4	65
30	Modulation bandwidth studies of recombination processes in blue and green InGaN quantum well micro-light-emitting diodes. Applied Physics Letters, 2013, 102, .	3.3	62
31	Over 10 Gbps VLC for Long-Distance Applications Using a GaN-Based Series-Biased Micro-LED Array. IEEE Photonics Technology Letters, 2020, 32, 499-502.	2.5	62
32	Wireless Visible Light Communications Employing Feed-Forward Pre-Equalization and PAM-4 Modulation. Journal of Lightwave Technology, 2016, 34, 2049-2055.	4.6	60
33	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. Laser and Photonics Reviews, 2013, 7, 1065-1078.	8.7	59
34	Characterization of Single-Crystal Synthetic Diamond for Multi-Watt Continuous-Wave Raman Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 328-337.	1.9	57
35	Heterogeneous integration of gallium nitride light-emitting diodes on diamond and silica by transfer printing. Optics Express, 2015, 23, 9329.	3.4	57
36	Integration of Semiconductor Nanowire Lasers with Polymeric Waveguide Devices on a Mechanically Flexible Substrate. Nano Letters, 2017, 17, 5990-5994.	9.1	55

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37	GaN directional couplers for integrated quantum photonics. Applied Physics Letters, 2011, 99, .	3.3	53
38	High-Speed Visible Light Communication Based on a III-Nitride Series-Biased Micro-LED Array. Journal of Lightwave Technology, 2019, 37, 1180-1186.	4.6	53
39	Fabrication, characterization and applications of flexible vertical InGaN micro-light emitting diode arrays. Optics Express, 2016, 24, 699.	3.4	52
40	Multiwatt, Continuous-Wave, Tunable Diamond Raman Laser With Intracavity Frequency-Doubling to the Visible Region. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1400108-1400108.	2.9	51
41	Temperature-dependent efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	50
42	Transfer Printing of Semiconductor Nanowires with Lasing Emission for Controllable Nanophotonic Device Fabrication. ACS Nano, 2016, 10, 3951-3958.	14.6	50
43	Size-dependent capacitance study on InGaN-based micro-light-emitting diodes. Journal of Applied Physics, 2014, 116, .	2.5	46
44	CMOS-Controlled Color-Tunable Smart Display. IEEE Photonics Journal, 2012, 4, 1639-1646.	2.0	44
45	On-chip GaN-based dual-color micro-LED arrays and their application in visible light communication. Optics Express, 2019, 27, A1517.	3.4	44
46	A CMOS Time-Resolved Fluorescence Lifetime Analysis Micro-System. Sensors, 2009, 9, 9255-9274.	3.8	43
47	Monolithic diamond Raman laser. Optics Letters, 2015, 40, 930.	3.3	43
48	Multisite microLED optrode array for neural interfacing. Neurophotonics, 2019, 6, 1.	3.3	43
49	Colloidal quantum dot nanocomposites for visible wavelength conversion of modulated optical signals. Optical Materials Express, 2012, 2, 250.	3.0	42
50	Intracavity diamond heatspreaders in lasers: the effects of birefringence. Optics Express, 2006, 14, 9250.	3.4	41
51	Optoelectronic tweezers system for single cell manipulation and fluorescence imaging of live immune cells. Optics Express, 2014, 22, 1372.	3.4	41
52	Laser action in a surface-structured free-standing membrane based on a π -conjugated polymer-composite. Organic Electronics, 2011, 12, 62-69.	2.6	40
53	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365.	4.6	40
54	InP/AlGaInP quantum dot semiconductor disk lasers for CW TEM ₀₀ emission at 716 \pm 755 nm. Optics Express, 2009, 17, 21782.	3.4	39

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55	Continuous-wave diamond Raman laser. <i>Optics Letters</i> , 2010, 35, 2994.	3.3	39
56	Miniaturized optoelectronic tweezers controlled by GaN micro-pixel light emitting diode arrays. <i>Optics Express</i> , 2011, 19, 2720.	3.4	39
57	19 Åµm waveguide laser fabricated by ultrafast laser inscription in Tm:Lu ₂ O ₃ ceramic. <i>Optics Express</i> , 2017, 25, 14910.	3.4	39
58	Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	2.0	38
59	Continuous Tuning and Efficient Intracavity Second-Harmonic Generation in a Semiconductor Disk Laser With an Intracavity Diamond Heatspreader. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 216-225.	1.9	37
60	An intra-cavity Raman laser using synthetic single-crystal diamond. <i>Optics Express</i> , 2010, 18, 16765.	3.4	36
61	Tunable continuous-wave diamond Raman laser. <i>Optics Express</i> , 2011, 19, 24165.	3.4	36
62	Direct Laser Writing of Nanosized Oligofluorene Truxenes in UV-Transparent Photoresist Microstructures. <i>Advanced Materials</i> , 2009, 21, 781-785.	21.0	35
63	µLED-Based Single-Wavelength Bi-directional POF Link With 10 Gb/s Aggregate Data Rate. <i>Journal of Lightwave Technology</i> , 2015, 33, 3571-3576.	4.6	34
64	An organic semiconductor laser based on star-shaped truxene-core oligomers for refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 132-139.	7.8	33
65	Vertically Emitting Indium Phosphide Nanowire Lasers. <i>Nano Letters</i> , 2018, 18, 3414-3420.	9.1	33
66	High accuracy transfer printing of single-mode membrane silicon photonic devices. <i>Optics Express</i> , 2018, 26, 16679.	3.4	33
67	Sub-Micron Lithography Using InGaN Micro-LEDs: Mask-Free Fabrication of LED Arrays. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 2221-2224.	2.5	32
68	Aging characteristics of blue InGaN micro-light emitting diodes at an extremely high current density of 3.5 kA cm ⁻² . <i>Semiconductor Science and Technology</i> , 2016, 31, 045005.	2.0	32
69	16 W continuous-wave Raman laser using low-loss synthetic diamond. <i>Optics Express</i> , 2011, 19, 6938.	3.4	31
70	Wavelength-tunable colloidal quantum dot laser on ultra-thin flexible glass. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	31
71	Nanosecond colloidal quantum dot lasers for sensing. <i>Optics Express</i> , 2014, 22, 7308.	3.4	29
72	Hybrid GaN LED with capillary-bonded InGaN MQW color-converting membrane for visible light communications. <i>Semiconductor Science and Technology</i> , 2015, 30, 035012.	2.0	28

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73	RGB and white-emitting organic lasers on flexible glass. Optics Express, 2016, 24, 2273.	3.4	28
74	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. IEEE Photonics Technology Letters, 2019, 31, 821-824.	2.5	28
75	Pulsed pumping of semiconductor disk lasers. Optics Express, 2007, 15, 3247.	3.4	27
76	Automated Nanoscale Absolute Accuracy Alignment System for Transfer Printing. ACS Applied Nano Materials, 2020, 3, 10326-10332.	5.0	27
77	Design of Linear and Star-Shaped Macromolecular Organic Semiconductors for Photonic Applications. Accounts of Chemical Research, 2019, 52, 1665-1674.	15.6	26
78	Flexible distributed-feedback colloidal quantum dot laser. Applied Physics Letters, 2011, 99, .	3.3	25
79	Large radius of curvature micro-lenses on single crystal diamond for application in monolithic diamond Raman lasers. Diamond and Related Materials, 2016, 65, 37-41.	3.9	25
80	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
81	A Vertically Integrated CMOS Microsystem for Time-Resolved Fluorescence Analysis. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 437-444.	4.0	24
82	An oligofluorene truxene based distributed feedback laser for biosensing applications. Biosensors and Bioelectronics, 2014, 54, 679-686.	10.1	24
83	Diode-pumped femtosecond Tm ³⁺ -doped LuScO ₃ laser near 2100 nm. Optics Letters, 2018, 43, 1287.	3.3	24
84	Manufacturing with light - micro-assembly of opto-electronic microstructures. Optics Express, 2017, 25, 28838.	3.4	23
85	Microlensed microchip VECSEL. Optics Express, 2007, 15, 9341.	3.4	22
86	Continuous-wave Raman laser pumped within a semiconductor disk laser cavity. Optics Letters, 2011, 36, 1083.	3.3	22
87	Design, Fabrication, and Application of GaN-Based Micro-LED Arrays With Individual Addressing by N-Electrodes. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	22
88	Improved sectioning in a slit scanning confocal microscope. Optics Letters, 2008, 33, 1813.	3.3	21
89	Scalable visible light communications with a micro-LED array projector and high-speed smartphone camera. Optics Express, 2019, 27, 15585.	3.4	21
90	Red microchip VECSEL array. Optics Express, 2005, 13, 7209.	3.4	20

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91	Nanofabrication of gallium nitride photonic crystal light-emitting diodes. <i>Microelectronic Engineering</i> , 2010, 87, 2200-2207.	2.4	20
92	Highly-photostable and mechanically flexible all-organic semiconductor lasers. <i>Optical Materials Express</i> , 2013, 3, 584.	3.0	20
93	Ultralow-threshold up-converted lasing in oligofluorenes with tailored strong nonlinear absorption. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12018-12025.	5.5	20
94	Positioning and Space-Division Multiple Access Enabled by Structured Illumination With Light-Emitting Diodes. <i>Journal of Lightwave Technology</i> , 2017, 35, 2339-2345.	4.6	20
95	Direct integration of micro-LEDs and a SPAD detector on a silicon CMOS chip for data communications and time-of-flight ranging. <i>Optics Express</i> , 2020, 28, 6909.	3.4	20
96	Gigabit per second visible light communication based on AlGaInP red micro-LED micro-transfer printed onto diamond and glass. <i>Optics Express</i> , 2020, 28, 12149.	3.4	20
97	Slow-light in a vertical-cavity semiconductor optical amplifier. <i>Optics Express</i> , 2006, 14, 6858.	3.4	19
98	Passive Mode-Locking of a Ti:Sapphire Laser by InGaP Quantum-Dot Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 209-211.	2.5	19
99	Diamond Raman Waveguide Lasers: Completely Analytical Design Optimization Incorporating Scattering Losses. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 1069-1077.	1.9	19
100	Large cross-section edge-coupled diamond waveguides. <i>Diamond and Related Materials</i> , 2011, 20, 564-567.	3.9	18
101	10 Gbps wavelength division multiplexing using UV-A, UV-B, and UV-C micro-LEDs. <i>Photonics Research</i> , 2022, 10, 516.	7.0	18
102	AlGaIn Ultraviolet Micro-LEDs. <i>IEEE Journal of Quantum Electronics</i> , 2022, 58, 1-14.	1.9	18
103	Amplified spontaneous emission in free-standing membranes incorporating star-shaped monodisperse π -conjugated truxene oligomers. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 035503.	2.2	17
104	Diode-pumped, mechanically-flexible polymer DFB laser encapsulated by glass membranes. <i>Optics Express</i> , 2014, 22, 24160.	3.4	17
105	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs. , 2015, , .		17
106	Characteristics of GaN-based light emitting diodes with different thicknesses of buffer layer grown by HVPE and MOCVD. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 075101.	2.8	17
107	Characterization, Selection, and Microassembly of Nanowire Laser Systems. <i>Nano Letters</i> , 2020, 20, 1862-1868.	9.1	17
108	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. <i>Optical Materials Express</i> , 2021, 11, 3567.	3.0	17

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109	Ultra-portable explosives sensor based on a CMOS fluorescence lifetime analysis micro-system. AIP Advances, 2011, 1, 032115.	1.3	16
110	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 6-14.	2.9	16
111	High-Speed Integrated Digital to Light Converter for Short Range Visible Light Communication. IEEE Photonics Technology Letters, 2017, 29, 118-121.	2.5	16
112	Micro-pixelated LEDs for science and instrumentation. Journal Physics D: Applied Physics, 2008, 41, 090301-090301.	2.8	15
113	Generation of primary hepatocyte microarrays by piezoelectric printing. Colloids and Surfaces B: Biointerfaces, 2012, 89, 126-132.	5.0	15
114	On-chip optical stimulation and electrical recording from cells. Journal of Biomedical Optics, 2013, 18, 1.	2.6	15
115	Thin film diamond membranes bonded on-demand with SOI ring resonators. Diamond and Related Materials, 2018, 88, 215-221.	3.9	15
116	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
117	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs. , 2015, , .		13
118	Tunable single-mode fiber-VCSEL using an intracavity polymer microlens. Optics Letters, 2007, 32, 2831.	3.3	12
119	Control of edge bulge evolution during photoresist reflow and its application to diamond microlens fabrication. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 021602.	1.2	12
120	InGaN ÅµLEDs integrated onto colloidal quantum dot functionalized ultra-thin glass. Optics Express, 2017, 25, 19179.	3.4	12
121	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	12
122	Micro-LED based optical wireless communications systems. Semiconductors and Semimetals, 2021, , 281-321.	0.7	12
123	Multispectral time-of-flight imaging using light-emitting diodes. Optics Express, 2019, 27, 35485.	3.4	12
124	Optical properties of single crystal diamond microfilms fabricated by ion implantation and lift-off processing. Diamond and Related Materials, 2012, 21, 16-23.	3.9	11
125	Modification of emission wavelength in organic random lasers based on photonic glass. Organic Electronics, 2012, 13, 1129-1135.	2.6	11
126	Visible light communication using InGaN optical sources with AlInGaP nanomembrane down-converters. Optics Express, 2016, 24, 10020.	3.4	11

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127	Positioning and Data Broadcasting Using Illumination Pattern Sequences Displayed by LED Arrays. IEEE Transactions on Communications, 2018, 66, 5582-5592.	7.8	11
128	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. Optics Letters, 2020, 45, 881.	3.3	11
129	CMOS-integrated GaN LED array for discrete power level stepping in visible light communications. Optics Express, 2017, 25, A338.	3.4	10
130	All-optical tuning of a diamond micro-disk resonator on silicon. Photonics Research, 2020, 8, 318.	7.0	10
131	Dip-pen nanolithography of nanostructured oligofluorene truxenes in a photo-curable host matrix. Journal of Materials Chemistry, 2011, 21, 14209.	6.7	9
132	InGaN micro-pixelated light-emitting diodes with nano-textured surfaces and modified emission profiles. Applied Physics A: Materials Science and Processing, 2011, 103, 389-393.	2.3	9
133	Directly color-tunable smart display based on a CMOS-controlled micro-LED array. , 2012, , .		9
134	Mechanically Flexible Organic Semiconductor Laser Array. IEEE Photonics Journal, 2012, 4, 684-690.	2.0	9
135	1W CW red VECSEL frequency-doubled to generate 60mW in the ultraviolet. , 2006, , .		8
136	Thermal management in disc lasers: doped-dielectric and semiconductor laser gain media in thin-disc and microchip formats. Journal of Modern Optics, 2007, 54, 1669-1676.	1.3	8
137	Selective wet etching of AlInN layers for nitride-based MEMS and photonic device structures. , 2008, , .		8
138	Singly-resonant sum frequency generation of visible light in a semiconductor disk laser. Optics Express, 2009, 17, 6010.	3.4	8
139	Emission characteristics of photonic crystal light-emitting diodes. Applied Optics, 2011, 50, 3233.	2.1	8
140	Hole transport assisted by the piezoelectric field in In _{0.4} Ga _{0.6} N/GaN quantum wells under electrical injection. Journal of Applied Physics, 2015, 118, .	2.5	8
141	CdS _x Se _{1-x} /ZnS semiconductor nanocrystal laser with sub 10kW/cm ² threshold and 40nJ emission output at 600 nm. Optics Express, 2016, 24, A146.	3.4	8
142	High speed spatial encoding enabled by CMOS-controlled micro-LED arrays. , 2016, , .		8
143	Fluorene-containing tetraphenylethylene molecules as lasing materials. Journal of Polymer Science Part A, 2017, 55, 734-746.	2.3	8
144	Optimum Device and Modulation Scheme Selection for Optical Wireless Communications. Journal of Lightwave Technology, 2021, 39, 2281-2287.	4.6	8

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145	Index and gain dynamics of optically pumped GaInNAs vertical-cavity semiconductor optical amplifiers. Applied Physics Letters, 2005, 87, 231115.	3.3	7
146	Optical spatial modulation OFDM using micro LEDs. , 2014, , .		7
147	Micro-structured light emission from planar InGaN light-emitting diodes. Semiconductor Science and Technology, 2014, 29, 015005.	2.0	7
148	Transfer printing of semiconductor nanowire lasers. IET Optoelectronics, 2018, 12, 30-35.	3.3	7
149	High-sensitivity inter-satellite optical communications using chip-scale LED and single-photon detector hardware. Optics Express, 2021, 29, 10749.	3.4	7
150	Method for inferring the mechanical strain of GaN-on-Si epitaxial layers using optical profilometry and finite element analysis. Optical Materials Express, 2021, 11, 1643.	3.0	7
151	Combining Time of Flight and Photometric Stereo Imaging for 3D Reconstruction of Discontinuous Scenes. Optics Letters, 2021, 46, 3612-3615.	3.3	7
152	Array-Format Microchip Semiconductor Disk Lasers. IEEE Journal of Quantum Electronics, 2008, 44, 1096-1103.	1.9	6
153	Inkjet-printed silver nanoparticle electrodes on GaN-based micro-structured light-emitting diodes. Applied Physics A: Materials Science and Processing, 2011, 104, 1003-1009.	2.3	6
154	Hybrid organic/GaN photonic crystal light-emitting diode. Applied Physics Letters, 2012, 101, 141122.	3.3	6
155	Direct LED writing of submicron resist patterns: Towards the fabrication of individually-addressable InGaN submicron stripe-shaped LED arrays. Nano Research, 2014, 7, 1849-1860.	10.4	6
156	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride μLEDs. , 2015, , .		6
157	Single-chip discrete multitone generation. , 2015, , .		6
158	Large scale matching of function to the genetic identity of retinal ganglion cells. Scientific Reports, 2017, 7, 15395.	3.3	6
159	Synchronization-free top-down illumination photometric stereo imaging using light-emitting diodes and a mobile device. Optics Express, 2021, 29, 1502.	3.4	6
160	High precision integrated photonic thermometry enabled by a transfer printed diamond resonator on GaN waveguide chip. Optics Express, 2021, 29, 29095.	3.4	6
161	4 Gbps wireless optical communications up to 5 m using a UV-C micro-light-emitting diode array. , 2021, , .		6
162	Ultra-wide coverage VLC system with alignment-free receiver. , 2018, , .		5

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163	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. ACS Nano, 2020, 14, 15293-15305.	14.6	5
164	Micro-LEDs for biomedical applications. Semiconductors and Semimetals, 2021, 106, 57-94.	0.7	5
165	Size-Dependent Characterization of Deep UV Micro-Light-Emitting Diodes. , 2020, , .		5
166	Top-down Illumination Photometric Stereo Imaging Using Light-Emitting Diodes and a Mobile Device. , 2019, , .		5
167	Pump-power-dependence of a CsPbBr ₃ -in-Cs ₄ PbBr ₆ quantum dot color converter. Optical Materials Express, 2019, 9, 3504.	3.0	5
168	Enhancing self-assembled colloidal quantum dot microsphere lasers. , 2021, , .		5
169	Multi-watt continuous-wave diamond Raman laser at 1217 nm. , 2011, , .		4
170	Organic polymer composite random laser operating underwater. Optics Letters, 2012, 37, 5160.	3.3	4
171	Hybrid organic semiconductor lasers for bio-molecular sensing. Faraday Discussions, 2014, 174, 369-381.	3.2	4
172	Planar micro- and nano-patterning of GaN light-emitting diodes: Guidelines and limitations. Journal of Applied Physics, 2014, 115, 084503.	2.5	4
173	Integrated multiple-input multiple-output visible light communications systems: recent progress and results. Proceedings of SPIE, 2015, , .	0.8	4
174	Temporal Encoding to Reject Background Signals in a Low Complexity, Photon Counting Communication Link. Materials, 2018, 11, 1671.	2.9	4
175	Ultra-Low Cost High-Density Two-Dimensional Visible-Light Optical Interconnects. Journal of Lightwave Technology, 2019, 37, 3305-3314.	4.6	4
176	Multicolor laser oscillation in a single self-assembled colloidal quantum dot microsphere. , 2020, , .		4
177	CMOS-integrated flip-chip, micro-pixel InGaN LED arrays for on-chip microfluorimetry. , 2007, , .		3
178	Fabrication and characterisation of microscale air bridges in [∆] conductive gallium nitride. Applied Physics A: Materials Science and Processing, 2009, 96, 495-501.	2.3	3
179	Flexible vertical structure GaN-based light emitting diodes on an AuSn substrate. , 2011, , .		3
180	Concept of a GaN-LED-based positioning system using structured illumination. , 2015, , .		3

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181	Multi-Gigabit integrated MIMO visible light communication system: Progress and updates. , 2015, , .		3
182	Control of automated systems with a structured light illumination source. , 2016, , .		3
183	A high speed generalised space shift keying link with micro-LEDs and CMOS APD receiver. , 2016, , .		3
184	Experimental demonstration of generalised space shift keying for visible light communication. , 2017, , .		3
185	LED-Based Photometric Stereo-Imaging Employing Frequency-Division Multiple Access. , 2018, , .		3
186	A wearable phototherapy device utilizing micro-LEDs. , 2019, 2019, 67-70.		3
187	GaN diode-pumping of a red semiconductor disk laser. , 2008, , .		2
188	Photonic quasi-crystal light emitting diodes: comparisons of device performance with pattern pitch. , 2010, , .		2
189	High-bandwidth parallel data transmission using GaN/CMOS micro-LED arrays. , 2012, , .		2
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