

450-nm GaN laser diode enables high-speed visible light QAM-OFDM

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Phosphorous Diffuser Diverged Blue Laser Diode for Indoor Lighting and Communication. Scientific Reports, 2015, 5, 18690.	1.6	118
2	Analysis and Optimization of P-LDPC Coded RGB-LED-Based VLC Systems. IEEE Photonics Journal, 2015, 7, 1-13.	1.0	18
3	Improved carrier injection in GaN-based VCSEL via AlGaIn/GaN multiple quantum barrier electron blocking layer. Optics Express, 2015, 23, 27145.	1.7	31
4	4-Gbit/s visible light communication link based on 16-QAM OFDM transmission over remote phosphor-film converted white light by using blue laser diode. Optics Express, 2015, 23, 33656.	1.7	87
5	Visible-light communication multiple-input multiple-output technology for indoor lighting, communication, and positioning. Optical Engineering, 2015, 54, 120502.	0.5	12
6	Low modulation bias InGaIn-based integrated EA-modulator-laser on semipolar GaN substrate. , 2015, , .		1
7	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. Optics Express, 2015, 23, 18746.	1.7	127
8	48 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. Optics Express, 2015, 23, 23302.	1.7	266
9	Enhanced temperature characteristic of InGaIn/GaN laser diodes with uniform multiple quantum wells. Semiconductor Science and Technology, 2015, 30, 125015.	1.0	6
10	0.52-1186 Gbit/s OFDM modulation for power-sharing VLC transmission by using VCSEL laser. Optics Express, 2016, 24, 21113.	1.7	9
11	Performance investigation of the FFT/IFFT size efficient DFT-Spread-OFDM signals in hybrid Fiber-VLLC systems. , 2016, , .		0
12	Dynamic characteristics of 410-nm semipolar (202Å ¹ Å ¹) III-nitride laser diodes with a modulation bandwidth of over 5 GHz. Applied Physics Letters, 2016, 109, .	1.5	27
13	High Speed Imaging 3 Å– 3 MIMO Phosphor White-Light LED Based Visible Light Communication System. IEEE Photonics Journal, 2016, 8, 1-6.	1.0	71
14	RGB visible light communication using mobile-phone camera and multi-input multi-output. Optics Express, 2016, 24, 9383.	1.7	78
15	Laser based underwater communication systems. , 2016, , .		10
16	Spatial and wavelength division multiplexing for high-speed VLC systems: An overview. , 2016, , .		3
17	Underwater wireless transmission of high-speed QAM-OFDM signals using a compact red-light laser. Optics Express, 2016, 24, 8097.	1.7	107
18	Visible light communication and lighting using laser diodes. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
19	Visible Light Positioning and Lighting Based on Identity Positioning and RF Carrier Allocation Technique Using a Solar Cell Receiver. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	54
20	Visible light communications for the implementation of internet-of-things. Optical Engineering, 2016, 55, 060501.	0.5	31
21	A 12-m 2.5-Gb/s Lighting Compatible Integrated Receiver for OOK Visible Light Communication Links. Journal of Lightwave Technology, 2016, , 1-1.	2.7	32
22	Directional visible light communication signal enhancement using a varifocal micromirror with four degrees of freedom. , 2016, , .		2
23	Catastrophic Degradation of InGaN/GaN Blue Laser Diodes. IEEE Transactions on Device and Materials Reliability, 2016, 16, 638-641.	1.5	3
24	High power laser-driven ceramic phosphor plate for outstanding efficient white light conversion in application of automotive lighting. Scientific Reports, 2016, 6, 31206.	1.6	87
25	III-Nitride Based Cyan Light-Emitting Diodes with GHz Bandwidth for High-Speed Visible Light Communication. IEEE Electron Device Letters, 2016, , 1-1.	2.2	30
26	Progress and challenges in electrically pumped GaN-based VCSELs. Proceedings of SPIE, 2016, , .	0.8	8
27	Utilization of 1-GHz VCSEL for 11.1-Gbps OFDM VLC Wireless Communication. IEEE Photonics Journal, 2016, 8, 1-6.	1.0	55
28	Dimmable Visible Light Communications Based on Multilayer ACO-OFDM. IEEE Photonics Journal, 2016, 8, 1-11.	1.0	36
29	Network Architecture of Bidirectional Visible Light Communication and Passive Optical Network. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	19
30	A Power-Type Single GaN-Based Blue LED With Improved Linearity for 3 Gb/s Free-Space VLC Without Pre-equalization. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	13
31	Visible light communications using predistortion signal to enhance the response of passive optical receiver. Optical Engineering, 2016, 55, 010501.	0.5	4
32	Decoding mobile-phone image sensor rolling shutter effect for visible light communications. Optical Engineering, 2016, 55, 016103.	0.5	20
33	Visible Light Communication Using Receivers of Camera Image Sensor and Solar Cell. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	40
34	Light Encryption Scheme Using Light-Emitting Diode and Camera Image Sensor. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	19
35	Asymmetrically Reconstructed Optical OFDM for Visible Light Communications. IEEE Photonics Journal, 2016, 8, 1-18.	1.0	8
36	High-Modulation-Efficiency, Integrated Waveguide Modulator-Laser Diode at 448 nm. ACS Photonics, 2016, 3, 262-268.	3.2	73

#	ARTICLE	IF	CITATIONS
37	Performance enhancement technique of visible light communications using passive photovoltaic cell. Optics Communications, 2017, 392, 119-122.	1.0	9
38	Laser-Diode-Based Visible Light Communication: Toward Gigabit Class Communication. , 2017, 55, 144-151.		121
39	Effect of biasing voltage on quantum confinement in GaN/AlxGa1-xN nanowire structure. Optik, 2017, 137, 115-123.	1.4	2
40	Blue Laser Diode Enables Underwater Communication at 12.4â€‰Gbps. Scientific Reports, 2017, 7, 40480.	1.6	177
41	Research on phosphor-conversion laser-based white light used as optical source of VLC and illumination. Optical and Quantum Electronics, 2017, 49, 1.	1.5	8
42	Underwater fiberâ€“wireless communication with a passive front end. Optics Communications, 2017, 402, 260-264.	1.0	16
43	Smart lighting: The way forward? Reviewing the past to shape the future. Energy and Buildings, 2017, 149, 180-191.	3.1	109
44	Pilot-based parametric channel estimation algorithm for DCO-OFDM-based visual light communications. Optics Communications, 2017, 400, 150-155.	1.0	12
45	Tricolor R/G/B Laser Diode Based Eye-Safe White Lighting Communication Beyond 8â€‰Gbit/s. Scientific Reports, 2017, 7, 11.	1.6	237
46	Underwater wireless optical communication using a blue-light leaky feeder. Optics Communications, 2017, 397, 51-54.	1.0	12
47	Performance Evaluation of Underwater Wireless Optical Communications Links in the Presence of Different Air Bubble Populations. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	79
48	Abatement of PAPR for ACO-OFDM deployed in VLC systems by frequency modulation of the baseband signal forming a constant envelope. Optics Communications, 2017, 393, 258-266.	1.0	14
49	VLCcube: A VLC Enabled Hybrid Network Structure for Data Centers. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2088-2102.	4.0	19
50	High-Speed Visible Light Communication Using GaN-Based Light-emitting Diodes With Photonic Crystals. Journal of Lightwave Technology, 2017, 35, 258-264.	2.7	26
51	A review of gallium nitride LEDs for multi-gigabit-per-second visible light data communications. Semiconductor Science and Technology, 2017, 32, 023001.	1.0	205
52	Blue Laser Diode Based Free-space Optical Data Transmission elevated to 18â€‰Gbps over 16â€‰m. Scientific Reports, 2017, 7, 10478.	1.6	31
53	An approach enabling adaptive FEC for OFDM in fiber-VLLC system. Optics Communications, 2017, 405, 329-333.	1.0	20
54	Violet Laser Diode Enables Lighting Communication. Scientific Reports, 2017, 7, 10469.	1.6	36

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55	Using a Single VCSEL Source Employing OFDM Downstream Signal and Remodulated OOK Upstream Signal for Bi-directional Visible Light Communications. Scientific Reports, 2017, 7, 15846.	1.6	32
56	Experimental research of adaptive OFDM and OCT precoding with a high SE for VLLC system. Optical Fiber Technology, 2017, 37, 21-25.	1.4	8
57	Investigation into the Anomalous Temperature Characteristics of InGaN Double Quantum Well Blue Laser Diodes Using Numerical Simulation. Nanoscale Research Letters, 2017, 12, 366.	3.1	5
58	Modulation optimization for visible laser light communication systems. , 2017, , .		1
59	Performance evaluation of underwater wireless optical communications links in the presence of different air bubble populations. , 2017, , .		3
60	A New Simple Model for Underwater Wireless Optical Channels in the Presence of Air Bubbles. , 2017, , .		32
61	Asymmetrical quantum well degradation of InGaN/GaN blue laser diodes characterized by photoluminescence. Applied Physics Letters, 2017, 111, 212102.	1.5	7
62	<i>In-Situ</i> : Monitoring the Degradation of LEDs En Route the Visible Light Communication System. IEEE Transactions on Device and Materials Reliability, 2017, 17, 722-726.	1.5	2
63	A Gbps Building-to-Building VLC Link Using Standard CMOS Avalanche Photodiodes. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	21
64	Optical modeling based on mean free path calculations for quantum dot phosphors applied to optoelectronic devices. Optics Express, 2017, 25, A113.	1.7	19
65	Gigabit-per-second white light-based visible light communication using near-ultraviolet laser diode and red-, green-, and blue-emitting phosphors. Optics Express, 2017, 25, 17480.	1.7	75
66	Nanopatterned luminescent concentrators for visible light communications. Optics Express, 2017, 25, 21926.	1.7	38
67	Directly modulated green-light diode-pumped solid-state laser for underwater wireless optical communication. Optics Letters, 2017, 42, 1664.	1.7	27
68	Picosecond tunable gain-switched blue pulses from GaN laser diodes with nanosecond current injections. Optics Express, 2017, 25, 13046.	1.7	8
69	Highly Uniform White Light-Based Visible Light Communication Using Red, Green, and Blue Laser Diodes. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	19
70	Pre-Distortion Scheme to Enhance the Transmission Performance of Organic Photo-Detector (OPD) Based Visible Light Communication (VLC). IEEE Access, 2018, 6, 7625-7630.	2.6	12
71	Impact of Mode-Hopping Noise on InGaN Edge Emitting Laser Relative Intensity Noise Properties. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.0	7
72	Joint Synchronization and Channel Estimation of ACO-OFDM Systems With Simplified Transceiver. IEEE Photonics Technology Letters, 2018, 30, 383-386.	1.3	12

#	ARTICLE	IF	CITATIONS
73	A UWOC system based on a 6 m/5.2 Gbps 680-nm vertical-cavity surface-emitting laser. <i>Laser Physics</i> , 2018, 28, 025202.	0.6	7
74	White-Lighting Communication With a Lu ₃ Al ₅ O ₁₂ :Ce ³⁺ /CaAlSiN ₃ :Eu ²⁺ Glass Covered 450-nm InGaN Laser Diode. <i>Journal of Lightwave Technology</i> , 2018, 36, 1634-1643.	2.7	27
75	Design of a 2.2-mW 24-Mb/s CMOS VLC Receiver SoC With Ambient Light Rejection and Post-Equalization for Li-Fi Applications. <i>Journal of Lightwave Technology</i> , 2018, 36, 2366-2375.	2.7	31
76	Using adaptive equalization and polarization-multiplexing technology for gigabit-per-second phosphor-LED wireless visible light communication. <i>Optics and Laser Technology</i> , 2018, 104, 206-209.	2.2	18
77	Experimental Study of Reconfigurable Visible Light Communications Based on Holographic Spot Array Generations. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	1.0	6
78	Self-injection locked blue laser. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 045801.	1.0	23
79	Using pre-distorted PAM-4 signal and parallel resistance circuit to enhance the passive solar cell based visible light communication. <i>Optics Communications</i> , 2018, 407, 245-249.	1.0	13
80	Characteristics of III-nitride based laser diode employed for short range underwater wireless optical communications. <i>Optics Communications</i> , 2018, 410, 525-530.	1.0	7
81	Visible-Light Multi-Gb/s Transmission Based on Resonant Cavity LED With Optical Energy Feed. <i>IEEE Journal on Selected Areas in Communications</i> , 2018, 36, 175-184.	9.7	12
82	Optical spectroscopic investigation of Ba ₃ Tb(PO ₄) ₃ single crystals for visible laser applications. <i>Journal of Alloys and Compounds</i> , 2018, 740, 1133-1139.	2.8	23
83	Filtered Multicarrier OFDM Encoding on Blue Laser Diode for 14.8-Gbps Seawater Transmission. <i>Journal of Lightwave Technology</i> , 2018, 36, 1739-1745.	2.7	64
84	Color Conversion Materials for High-Brightness Laser-Driven Solid-State Lighting. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800173.	4.4	239
85	5-10 Gbps WDM-CAP-PON based on frequency comb using OFDM with blue LD. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	9
86	Modelling of the Laser Dynamics of an (Al,In)GaN Laser Diode. , 2018, , .		1
87	Mitigation of performance degradation due to dynamic display contents in visible light communication using TV backlight and CMOS image sensor. <i>Optics Express</i> , 2018, 26, 22342.	1.7	7
88	Continuous-wave operation of (Al,In)GaN distributed-feedback laser diodes with high-order notched gratings. <i>Applied Physics Express</i> , 2018, 11, 112701.	1.1	28
89	A White Light Communication Model Based on Fluorescence Decay Process. , 2018, , .		1
90	Ultrahigh-speed violet laser diode based free-space optical communication beyond 25 Gbit/s. <i>Scientific Reports</i> , 2018, 8, 13142.	1.6	41

#	ARTICLE	IF	CITATIONS
91	Red/green/blue LD mixed white-light communication at 6500K with divergent diffuser optimization. Optics Express, 2018, 26, 23397.	1.7	23
92	Laser-based white-light source for high-speed underwater wireless optical communication and high-efficiency underwater solid-state lighting. Optics Express, 2018, 26, 19259.	1.7	50
93	Cardinality improvement of Zero Cross Correlation (ZCC) code for OCDMA visible light communication system utilizing catenated-OFDM modulation scheme. Optik, 2018, 170, 220-225.	1.4	20
94	20231â€™â€™Gbit/s tricolor red/green/blue laser diode based bidirectional signal remodulation visible-light communication system. Photonics Research, 2018, 6, 422.	3.4	40
95	Light based underwater wireless communications. Japanese Journal of Applied Physics, 2018, 57, 08PA06.	0.8	89
96	High-Speed Visible Light Communications: Enabling Technologies and State of the Art. Applied Sciences (Switzerland), 2018, 8, 589.	1.3	48
97	Visible light communicationâ€™â€™An architectural perspective on the applications and data rate improvement strategies. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3436.	2.6	24
98	VCSEL-Based 24 Gbit/s OWC Board-to-Board System. IEEE Communications Letters, 2019, 23, 1564-1567.	2.5	3
99	Reduction of nonradiative recombination in InGaN epilayers grown with periodical dilute hydrogen carrier gas. Applied Surface Science, 2019, 494, 285-292.	3.1	8
100	Toward high-speed visible laser lighting based optical wireless communications. Progress in Quantum Electronics, 2019, 67, 100225.	3.5	63
101	Reconfigurable beam system for non-line-of-sight free-space optical communication. Light: Science and Applications, 2019, 8, 69.	7.7	75
102	LuAG:Ce/CASN:Eu phosphor enhanced high-CRI R/G/B LD lighting fidelity. Journal of Materials Chemistry C, 2019, 7, 9556-9563.	2.7	20
103	Indoor 3D Localization with Low-Cost LiFi Components. , 2019, , .		6
104	CdSe/ZnS core-shell quantum dot assisted color conversion of violet laser diode for white lighting communication. Nanophotonics, 2019, 8, 2189-2201.	2.9	19
105	InGaN/GaN Distributed Feedback Laser Diodes with Surface Gratings and Sidewall Gratings. Micromachines, 2019, 10, 699.	1.4	13
106	A search for extra-high brightness laser-driven color converters by investigating thermally-induced luminance saturation. Journal of Materials Chemistry C, 2019, 7, 11449-11456.	2.7	90
107	Physical implementation of underwater optical wireless system using spatial mode laser sources with optimization of spatial matching components. Results in Physics, 2019, 14, 102503.	2.0	4
108	Analysis of optical injection on red and blue laser diodes for high bit-rate visible light communication. Optics Communications, 2019, 449, 79-85.	1.0	10

#	ARTICLE	IF	CITATIONS
109	A Novel Frequency Domain Visible Light Communication (VLC) Three-Dimensional Trilateration System for Localization in Underground Mining. Applied Sciences (Switzerland), 2019, 9, 1488.	1.3	26
110	Performance Improvement of GaN Based Laser Diode Using Pd/Ni/Au Metallization Ohmic Contact. Coatings, 2019, 9, 291.	1.2	15
111	Centralized-Light-Source Two-Way PAM8/PAM4 FSO Communications With Parallel Optical Injection Locking Operation. IEEE Access, 2019, 7, 36948-36957.	2.6	9
112	Design of a Real-Time Visible Laser Light Communication System with Basedband in FPGA for High Definition video Transmission. , 2019, , .		2
113	The LD and quantum dot-based white light sources for joint lighting and visible light communications. , 2019, , .		0
114	The Behavioral Study of an Optical Injection-Locked Semiconductor Laser under the Influence of Intensity and Phase Noise. , 2019, , .		0
115	Beyond solid-state lighting: Miniaturization, hybrid integration, and applications of GaN nano- and micro-LEDs. Applied Physics Reviews, 2019, 6, .	5.5	194
116	Integration of FSO Traffic in Ring-Topology Bidirectional Fiber Access Network With Fault Protection. IEEE Communications Letters, 2020, 24, 589-592.	2.5	24
117	On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. IEEE Systems Journal, 2020, 14, 4176-4187.	2.9	15
118	Experimental Characterization of RGB LED Transceiver in Low-Complexity LED-to-LED Link. Sensors, 2020, 20, 5754.	2.1	5
119	Combination of Reactive-Ion Etching and Chemical Etching as a Method for Optimizing the Surface Relief on AlGaInN Heterostructures. Semiconductors, 2020, 54, 1310-1314.	0.2	1
120	Surface morphology of polar, semipolar and nonpolar freestanding GaN after chemical etching. Applied Surface Science, 2020, 511, 145524.	3.1	6
121	Degradation study of InGaN-based laser diodes grown on Si. Journal Physics D: Applied Physics, 2020, 53, 395103.	1.3	5
122	Modeling and performance evaluation of underwater wireless optical communication system in the presence of different sized air bubbles. Optical and Quantum Electronics, 2020, 52, 1.	1.5	15
123	Relay-Assisted Technology in Optical Wireless Communications: A Survey. IEEE Access, 2020, 8, 194384-194409.	2.6	29
124	Tactical Drone for Point-to-Point data delivery using Laser-Visible Light Communication (L-VLC). , 2020, , .		4
125	Color-Converting Violet Laser Diode with an Ultrafast BEHP-PPV + MEH-PPV Polymer Blend for High-Speed White Lighting Data Link. ACS Applied Electronic Materials, 2020, 2, 3017-3027.	2.0	12
126	LED-Based Underwater Wireless Optical Communication for Small Mobile Platforms: Experimental Channel Study in Highly-Turbid Lake Water. IEEE Access, 2020, 8, 169304-169313.	2.6	10

#	ARTICLE	IF	CITATIONS
127	6.915-Gbit/s white-light phosphor laser diode-based DCO-OFDM visible light communication (VLC) system with functional transmission distance. <i>Electronics Letters</i> , 2020, 56, 945-947.	0.5	24
128	QAM-OFDM transmission in underwater wireless optical communication system with limited resolution DAC. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	6
129	26.228-Gbit/s RGBV Visible Light Communication (VLC) with 2-m Free Space Transmission. , 2020, , .		5
130	Advanced Modulation Format of Probabilistic Shaping Bit Loading for 450-nm GaN Laser Diode based Visible Light Communication. <i>Sensors</i> , 2020, 20, 6143.	2.1	9
131	Futuristic Short Range Optical Communication: A Survey. , 2020, , .		5
132	Bidirectional hybrid OFDM based free-space/wireless-over-fiber transport system. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	17
133	Transmitter and receiver technologies for optical wireless. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190182.	1.6	26
134	Visible-light all-fiber vortex lasers based on mode selective couplers*. <i>Chinese Physics B</i> , 2020, 29, 094204.	0.7	4
135	Time Jitter, Turbulence and Chromatic Dispersion in Underwater Optical Wireless Links. <i>Technologies</i> , 2020, 8, 3.	3.0	8
136	Mechanism Analysis of Proton Irradiation-Induced Increase of 3-dB Bandwidth of GaN-Based Microlight-Emitting Diodes for Space Light Communication. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1360-1364.	1.2	2
137	IoT Connectivity Technologies and Applications: A Survey. <i>IEEE Access</i> , 2020, 8, 67646-67673.	2.6	175
138	Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	1.0	29
139	Flexible Blue-Light Fiber Amplifiers to Improve Signal Coverage in Advanced Lighting Communication Systems. <i>Cell Reports Physical Science</i> , 2020, 1, 100041.	2.8	11
140	Visible light communication with efficient far-red/near-infrared polymer light-emitting diodes. <i>Light: Science and Applications</i> , 2020, 9, 70.	7.7	97
141	Tunable Violet Laser Diode System for Optical Wireless Communication. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 546-549.	1.3	8
142	Resistor Inductor Capacitor Impedance Optimization of Violet Laser Diodes for Free-Space Quadrature Amplitude Modulation Orthogonal Frequency Division Multiplexing Data Link. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 7684-7692.	5.2	1
143	Green indoor optical wireless communication systems: Pathway towards pervasive deployment. <i>Digital Communications and Networks</i> , 2021, 7, 410-444.	2.7	25
144	A Wheeled Robot Chain Control System for Underground Facilities Inspection Using Visible Light Communication and Solar Panel Receivers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 180-189.	3.7	15

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145	Investigation on image signal receiving performance of photodiodes and solar panel detectors in an underground facility visible light communication system. <i>Optics Express</i> , 2021, 29, 692.	1.7	6
146	USB-powered technology platform for laser ablative thrust generation. <i>OSA Continuum</i> , 2021, 4, 1304.	1.8	0
147	Two-Level Laser Diode Color-Shift-Keying Orthogonal-Frequency-Division-Multiplexing (LD-CSK-OFDM) for Optical Wireless Communications (OWC). <i>Journal of Lightwave Technology</i> , 2021, 39, 3088-3094.	2.7	10
148	40ÂGb/s wavelength division multiplexing-passive optical network (WDM-PON) for undersea wireless optical communication. <i>Journal of Optical Communications</i> , 2021, .	4.0	1
149	Compact High-Power Visible Laser Diode Wavelength Division Multiplexing for White-Light Communication. <i>Advanced Photonics Research</i> , 2021, 2, 2100075.	1.7	2
150	Investigation of Underwater Wireless Optical Communications Links With Surface Currents and Tides for Oceanic Signal Transmission. <i>IEEE Photonics Journal</i> , 2021, 13, 1-8.	1.0	5
151	Li-Pos: A Light Positioning Framework Leveraging OFDM for Visible Light Communication. <i>Sensors</i> , 2021, 21, 4310.	2.1	5
152	Display Light Panel and Rolling Shutter Image Sensor Based Optical Camera Communication (OCC) Using Frame-Averaging Background Removal and Neural Network. <i>Journal of Lightwave Technology</i> , 2021, 39, 4360-4366.	2.7	28
153	Polarization-insensitive GaN metalenses at visible wavelengths. <i>Scientific Reports</i> , 2021, 11, 14541.	1.6	14
154	Visible light communication for intelligent transportation systems: A review of the latest technologies. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2021, 8, 483-492.	2.0	15
155	Real-time image transmission through underwater wireless optical communication link for Internet of Underwater Things. <i>International Journal of Communication Systems</i> , 2021, 34, e4951.	1.6	5
156	A Cost-Efficient RGB Laser-Based Visible Light Communication System by Incorporating Hybrid Wavelength and Polarization Division Multiplexing Schemes. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	7
157	Stepped upper waveguide layer for higher hole injection efficiency in GaN-based laser diodes. <i>Optics Express</i> , 2021, 29, 33992-34001.	1.7	3
158	A Novel Visible Light Communication System Based on a SiPM Receiver. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 98-111.	0.3	0
159	Visible Light Communication System Technology Review: Devices, Architectures, and Applications. <i>Crystals</i> , 2021, 11, 1098.	1.0	40
160	Review of VCSELs for Complex Data-Format Transmission Beyond 100-Gbit/s. <i>IEEE Photonics Journal</i> , 2021, 13, 1-13.	1.0	10
161	Improve uniformity for an indoor visible light communication system. <i>International Journal of Communication Systems</i> , 2020, 33, e4349.	1.6	13
162	Modified OFDM configurations with equalization and CFO compensation for performance enhancement of OFDM communication systems using symmetry of the Fourier transform. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 126, 153247.	1.7	8

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163	Efficiency enhancement in InGaN-based laser diodes using an optimized Al _{0.12} Ga _{0.88} N electron blocking layer. Semiconductor Science and Technology, 2020, 35, 105017.	1.0	3
164	Performance Analysis of Spectral Efficiently Adaptive Modulation DFT-Spread Polar Coordinate-Based OFDM in Hybrid Fiber-Visible Laser Light Communication System. , 2020, , .		4
165	15 Gb/s OFDM-based VLC using direct modulation of 450 GaN laser diode. , 2017, , .		8
166	Laser-based visible light communications and underwater wireless optical communications: a device perspective. , 2019, , .		16
167	Advanced LiFi technology: Laser light. , 2020, , .		15
168	High Speed Visible Light Communications based on RGB Laser Diodes and OOK-NRZ Modulation. , 2017, , .		3
169	The Effect of Phosphor Concentration on Laser-Based White Light Communication System. , 2016, , .		1
170	Multi-Gbit/s phosphor-based white-light and blue-filter-free visible light communication and lighting system with practical transmission distance. Optics Express, 2020, 28, 7375.	1.7	17
171	Remote GaN metalens applied to white light-emitting diodes. Optics Express, 2020, 28, 38883.	1.7	12
172	Phosphor-based LED Visible Light Communication System Bandwidth Enhancement Employing MC-CDMA. , 2017, , .		2
173	High performance of a semipolar InGaN laser with a phase-shifted embedded hydrogen silsesquioxane (HSQ) grating. Optics Letters, 2020, 45, 5844.	1.7	5
174	Visible Lasers and Emerging Color Converters for Lighting and Visible Light Communications. , 2017, , .		3
175	Backscattering Effect of Phosphor Diffuser on the Blue Laser Diode Based 5.2-Gbps Li-Fi Communication Link. , 2016, , .		1
176	Frequency Response of Directly Modulated III-nitride Based Blue Laser Diode at Different Temperature. , 2017, , .		0
177	Blue LD-based White Light Source for Joint Lighting and Visible Light Communication. , 2017, , .		2
178	3 Gb/s OOK VLC Link Using Bandwidth-Enhanced CMOS Avalanche Photodiode. , 2017, , .		3
179	Experimental demonstration of OFDM/OQAM transmission with DFT-based channel estimation for visible laser light communications. , 2017, , .		2
180	High-speed modulation of GaN-based light emitting diode with embedded photonic crystals. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
181	Lighting Communications. Series in Optics and Optoelectronics, 2017, , 645-659.	0.0	0
182	Thermal Analysis of Blue Laser Diode for Solid State Lighting Application. Optics and Photonics Journal, 2018, 08, 40-49.	0.3	2
183	Violet laser diode based 25-Gbps point-to-point and 12-Gbps MEH/BBEHP converted white lighting QAM-OFDM link. , 2019, , .		0
184	Simulation and Experiment Investigation of Bandwidth Limited Underwater Optical Wireless Transmission. , 2019, , .		0
185	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC. , 2019, , .		1
186	Narrowing laser linewidth for high-speed optical communication of FSO. , 2019, , .		0
187	Experimental demonstration of blind equalization for OFDM/OQAM-VLC system. Optical Engineering, 2019, 58, 1.	0.5	3
188	Four-Color LD+LED Lighting Module for 30-Gbps Visible Wavelength Division Multiplexing Data Transmission. , 2020, , .		3
189	Visible Light Positioning and Communication Methods and Their Application in the Intelligent Mobility. IEEE Latin America Transactions, 2020, 18, 2174-2185.	1.2	2
190	Photonic crystal structured blue μ LED with aperture size dependent data transmission performance in plastic fiber link. OSA Continuum, 2020, 3, 104.	1.8	4
191	Miniature R/G/V-LDs+Y-LED Mixed White-Lighting Module with High-Lux and High-CRI for 20-Gbps Li-Fi. , 2020, , .		2
192	Beyond 10 Gbps 450-nm GaN Laser Diode based Visible Light Communication System utilizing Probabilistic Shaping Bit Loading Scheme. , 2020, , .		1
193	White-light color conversion with red/green/violet laser diodes and yellow light-emitting diode mixing for 34.8 Gbit/s visible lighting communication. Photonics Research, 2020, 8, 1398.	3.4	15
194	Using silicon photovoltaic cells and machine learning and neural network algorithms for visible-light positioning systems. Optical Engineering, 2020, 59, .	0.5	5
195	Ultrafast Perovskite Color Conversion of Blue Laser Diode for White-Lighting Optical Wireless Link. , 2021, , .		0
196	Narrow-Linewidth GaN-on-Si Laser Diode with Slot Gratings. Nanomaterials, 2021, 11, 3092.	1.9	2
197	26 Gbit/s LiFi System With Laser-Based White Light Transmitter. Journal of Lightwave Technology, 2022, 40, 1432-1439.	2.7	14
198	Experimental performance of deep learning channel estimation for an X-ray communication-based OFDM-PWM system. Optics Letters, 2022, 47, 461.	1.7	2

#	ARTICLE	IF	CITATIONS
199	High CRI RGB Laser Lighting With 11-Gb/s WDM Link Using Off-the-Shelf Phosphor Plate. IEEE Photonics Technology Letters, 2022, 34, 97-100.	1.3	7
200	Comparative investigation into key optoelectronic characteristics of semipolar InGaN blue laser diodes: A strategy to mitigate quantum-confine stark effect. Results in Physics, 2022, 34, 105246.	2.0	3
201	Perspective on light-fidelity and visible light communication. Journal of Laser Applications, 2022, 34, .	0.8	4
202	Spectroscopic characteristics of Dy ³⁺ -doped Ca ₂ Al ₂ SiO ₇ single crystal for potential use in solid-state yellow lasers. Journal of Luminescence, 2022, 245, 118787.	1.5	8
204	Development of ultra-wide field-of-view white light laser-based visible light communication system. , 2022, , .		2
206	An Automatic Alignment Bidirectional Visible Light Communication System Based on Red Laser Diode. , 2021, , .		3
207	QAM-DMT of Hybridly Integrated EAM-DFBLD Chip-on-Board With Adaptive Machine Learning Algorithm for 149.6-Gbit/s BtB and 138-Gbit/s 10-km-SMF Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-13.	1.9	1
208	Tailorable stimulated Brillouin scattering in a partially suspended aluminium nitride waveguide in the visible range. Optics Express, 2022, 30, 27092.	1.7	1
209	Multi-element two-dimensional compounds Pb ₃ Sn ₄ FeSb ₂ S ₁₄ as saturable absorber to demonstrate large-energy mode-locked pulse generations. Optik, 2022, , 169411.	1.4	0
210	Ultra-High Frequency Signal Transmission Based on Temporal Ghost Imaging. Journal of Lightwave Technology, 2022, 40, 5426-5431.	2.7	3
211	Optical wireless communication under the effect of low electric field. Journal of Optical Communications, 2022, .	4.0	0
212	Defect-control electron transport behavior of gallium nitride/silicon nonplanar-structure heterojunction. Journal Physics D: Applied Physics, 2022, 55, 364003.	1.3	2
213	Mitigation of turbulences induced by air bubbles and performance enhancement in 112 Gbps UWOC link with coherent detection MIMO PDM-QPSK and advanced digital signal processing. Optical and Quantum Electronics, 2022, 54, .	1.5	2
214	Visible light modulator by sputter-deposited lithium niobate. AIP Advances, 2022, 12, .	0.6	3
215	Study of the Luminescence Decay of a Semipolar Green Light-Emitting Diode for Visible Light Communications by Time-Resolved Electroluminescence. ACS Photonics, 2022, 9, 2378-2384.	3.2	15
216	Outage Performance of FSO Links with Chirped Gaussian Pulses and Truncated Modeled Time Jitter. , 2022, , .		1
217	Statistical channel model to characterize turbulence-induced fluctuations in the underwater wireless optical communication links. International Journal of Communication Systems, 2022, 35, .	1.6	3
218	Comprehensive experimental and statistical analysis of the effects of salinity gradient, temperature gradient, air bubbles on the performance of underwater wireless optical communication link. Journal of Modern Optics, 2022, 69, 978-994.	0.6	2

#	ARTICLE	IF	CITATIONS
219	Availability Study of Atmospheric Gaussian Pulse Propagation with Normally Distributed Time Jitter for Optical Wireless Communication Systems. , 2022, , .		1
220	Outage Probability and BER Estimation for FSO Links with Truncated Normal Time Jitter and Longitudinal Gaussian Pulse Propagation in Dispersive Media. Electronics (Switzerland), 2022, 11, 2981.	1.8	2
221	Optical Beam Steerable Visible Light Communication (VLC) System Supporting Multiple Users Using RGB and Orthogonal Frequency Division Multiplexed (OFDM) Non-Orthogonal Multiple Access (NOMA). Sensors, 2022, 22, 8707.	2.1	5
222	Performance analysis of the hybrid MIMO-LD/LED link for the UWOC system in sea water. Journal of Optical Communications, 2022, .	4.0	0
223	Performance investigation of FSO communication systems with chromatic dispersion, propagation losses and truncated normal modeled time jitter. Optics Communications, 2022, , 129218.	1.0	0
224	Demonstrating a real-time QAM16 visible light communications utilizing off-the-shelf hardware. Results in Optics, 2023, 10, 100348.	0.9	1
225	Monolithic 45 Degree Deflecting Mirror as a Key Element for Realization of 2D Arrays of Laser Diodes Based on AlInGaN Semiconductors. Micromachines, 2023, 14, 352.	1.4	0
226	InGaN Laser Diodes with Etched Facets for Photonic Integrated Circuit Applications. Micromachines, 2023, 14, 408.	1.4	4
227	OCDMA transmission-based underwater wireless optical communication system: performance analysis. Optical and Quantum Electronics, 2023, 55, .	1.5	9
228	On-chip integrated exceptional surface microlaser. Science Advances, 2023, 9, .	4.7	8