

Tien Khee Ng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3104328/publications.pdf>

Version: 2024-02-01

341
papers

8,258
citations

46918

47
h-index

66788

78
g-index

347
all docs

347
docs citations

347
times ranked

7852
citing authors

#	ARTICLE	IF	CITATIONS
1	Influences of ALD Al ₂ O ₃ on the surface band-bending of c-plane, Ga-face GaN. Japanese Journal of Applied Physics, 2022, 61, 011003.	0.8	7
2	A Review of Distributed Fiber-Optic Sensing in the Oil and Gas Industry. Journal of Lightwave Technology, 2022, 40, 1407-1431.	2.7	59
3	Toward Automatic Subsea Operations Using Real-Time Underwater Optical Wireless Sensor Networks. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	8
4	Real-Time Optical-Wireless Video Surveillance System for High Visual-Fidelity Underwater Monitoring. IEEE Photonics Journal, 2022, 14, 1-9.	1.0	20
5	All-inorganic halide-perovskite polymer-fiber-photodetector for high-speed optical wireless communication. Optics Express, 2022, 30, 9823.	1.7	19
6	Boosted ultraviolet photodetection of AlGaIn quantum-disk nanowires via rational surface passivation. Journal Physics D: Applied Physics, 2022, 55, 125101.	1.3	6
7	CNN-based detection of red palm weevil using optical-fiber-distributed acoustic sensing. , 2022, , .		1
8	Underwater optical wireless sensor network for real-time underwater environmental monitoring. , 2022, , .		3
9	Underwater turbulence on scintillating-fiber based omnidirectional underwater wireless optical communication system. , 2022, , .		1
10	Practical WDM photonic receiver based on wide-field-of-view and large-area detection scintillating fibers: a field experiment. , 2022, , .		0
11	Ultralow-power deep-ultraviolet photodetection using oxide-nitride heterojunctions integrated on silicon. , 2022, , .		0
12	Compact scintillating-fiber/450-nm-laser transceiver for full-duplex underwater wireless optical communication system under turbulence. Optics Express, 2022, 30, 53.	1.7	22
13	Metal-Organic Frameworks in Mixed-Matrix Membranes for High-Speed Visible-Light Communication. Journal of the American Chemical Society, 2022, 144, 6813-6820.	6.6	23
14	Chlorine-Infused Wide-Band Gap p-CuSCN/n-GaN Heterojunction Ultraviolet-Light Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 17889-17898.	4.0	8
15	Wide-field-of-view Perovskite Quantum-dots Fibers Array for Easing Pointing, Acquisition and Tracking in Underwater Wireless Optical Communication. , 2022, , .		0
16	Two-Dimensional Hybrid Organic-Inorganic Perovskite Nanosheets for Gb/s Visible-Light Communication. IEEE Photonics Technology Letters, 2022, 34, 753-756.	1.3	7
17	Carrier localization and defect-insensitive optical behaviors of ultraviolet multiple quantum wells grown on patterned AlN nucleation layer. Journal of Alloys and Compounds, 2021, 861, 157589.	2.8	0
18	Improved H ₂ detection performance of GaN sensor with Pt/Sulfide treatment of porous active layer prepared by metal electroless etching. International Journal of Hydrogen Energy, 2021, 46, 4614-4625.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Pt/AlGa ₂ N Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. Nano Letters, 2021, 21, 120-129.	4.5	127
20	Group-III-nitride and halide-perovskite semiconductor gain media for amplified spontaneous emission and lasing applications. Journal Physics D: Applied Physics, 2021, 54, 143001.	1.3	20
21	Single-Port Superluminescent-Diode Gain-Chip for Tunable Single-Wavelength and Dual-Wavelength Blue-Laser. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	1
22	Towards Detecting Red Palm Weevil Using Machine Learning and Fiber Optic Distributed Acoustic Sensing. Sensors, 2021, 21, 1592.	2.1	25
23	Overcoming the OTDR dead-zone using a few-mode fiber. , 2021, , .		0
24	InGa ₂ N-based nanowires development for energy harvesting and conversion applications. Journal of Applied Physics, 2021, 129, .	1.1	9
25	Highly efficient transverse-electric-dominant ultraviolet-C emitters employing GaN multiple quantum disks in AlN nanowire matrix. , 2021, , .		0
26	Toward Large-Scale Ga ₂ O ₃ Membranes via Quasi-Van Der Waals Epitaxy on Epitaxial Graphene Layers. ACS Applied Materials & Interfaces, 2021, 13, 13410-13418.	4.0	17
27	Colloidal PbS Quantum Dots for Visible-to-Near-Infrared Optical Internet of Things. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	4
28	Wide-field-of-view optical detectors using fused fiber-optic tapers. Optics Letters, 2021, 46, 1916.	1.7	23
29	Giant clam inspired high-speed photo-conversion for ultraviolet optical wireless communication. Optical Materials Express, 2021, 11, 1515.	1.6	2
30	Heteroepitaxial $\text{In}^{2+}\text{Ga}_{2}\text{O}_{3}$ on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection. Advanced Materials Technologies, 2021, 6, 2100142.	3.0	10
31	Sustained Solar-Powered Electrocatalytic H ₂ Production by Seawater Splitting Using Two-Dimensional Vanadium Disulfide. ACS Sustainable Chemistry and Engineering, 2021, 9, 8572-8580.	3.2	10
32	Heteroepitaxial $\text{In}^{2+}\text{Ga}_{2}\text{O}_{3}$ on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection (Adv. Mater. Technol. 9/2021). Advanced Materials Technologies, 2021, 6, 2170052.	3.0	0
33	Optical properties of freestanding GaN nanomembranes using monochromated valence-EELS. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115333.	1.7	7
34	Nanoindentation Induced Elastic-plastic Deformation of GaN Nanomembrane on a Sapphire Substrate. American Journal of Nanosciences, 2021, 7, 15.	0.9	2
35	Monitoring the Red Palm Weevil Infestation Using Machine Learning and Optical Sensing. , 2021, , .		2
36	The Impact of Vertical Salinity Gradient on Non-Line-of-Sight Underwater Optical Wireless Communication. IEEE Photonics Journal, 2021, 13, 1-9.	1.0	11

#	ARTICLE	IF	CITATIONS
37	Optical Properties and First Principles Study of CH ₃ NH ₃ PbBr ₃ Perovskite Structures for Solar Cell Application. Lecture Notes in Electrical Engineering, 2021, , 275-282.	0.3	0
38	Dual-wavelength luminescent fibers receiver for wide field-of-view, Gb/s underwater optical wireless communication. Optics Express, 2021, 29, 38014.	1.7	28
39	Hybrid Distributed Acoustic-Temperature Sensor Using a Multimode Fiber. , 2021, , .		0
40	All-inorganic halide-perovskite-polymer luminescent fibers for high-bitrate ultraviolet free-space optical communication. , 2021, , .		0
41	Silicon-integrated monocrystalline oxide/nitride heterostructures for deep-ultraviolet optoelectronics. Optical Materials Express, 2021, 11, 4130.	1.6	4
42	Simultaneous Distributed Acoustic and Temperature Sensing Using a Multimode Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-7.	1.9	17
43	Non-line-of-sight methodology for high-speed wireless optical communication in highly turbid water. Optics Communications, 2020, 461, 125264.	1.0	34
44	Semipolar (20 21 Å ⁻¹) InGaN/GaN micro-photodetector for gigabit-per-second visible light communication. Applied Physics Express, 2020, 13, 014001.	1.1	39
45	Time/Energy Quantum Uncertainty: Quantifying the Effectiveness of Surface Defect Passivation Protocols for Low-Dimensional Semiconductors. ACS Applied Electronic Materials, 2020, 2, 409-418.	2.0	4
46	A Review on Practical Considerations and Solutions in Underwater Wireless Optical Communication. Journal of Lightwave Technology, 2020, 38, 421-431.	2.7	126
47	A Review of Using Few-Mode Fibers for Optical Sensing. IEEE Access, 2020, 8, 179592-179605.	2.6	16
48	Survey of energy-autonomous solar cell receivers for satellite/air/ground/ocean optical wireless communication. Progress in Quantum Electronics, 2020, 74, 100300.	3.5	32
49	Characterization of epitaxial titanium nitride mediated single-crystal nickel oxide grown on MgO-(100) and Si-(100). AIP Advances, 2020, 10, 065318.	0.6	4
50	Titanium Carbide MXene Nucleation Layer for Epitaxial Growth of High-Quality GaN Nanowires on Amorphous Substrates. ACS Nano, 2020, 14, 2202-2211.	7.3	15
51	Single-Crystalline All-Oxide InGaAs/InP Heterostructures for Deep-Ultraviolet Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 53932-53941.	4.0	14
52	Underwater wireless optical communications: Opportunity, challenges and future prospects commentary on "Recent progress in and perspectives of underwater wireless optical communication". Progress in Quantum Electronics, 2020, 73, 100275.	3.5	11
53	Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	11
54	Quantifying the Transverse-Electric-Dominant 260 nm Emission from Molecular Beam Epitaxy-Grown GaN-Quantum-Disks Embedded in AlN Nanowires: A Comprehensive Optical and Morphological Characterization. ACS Applied Materials & Interfaces, 2020, 12, 41649-41658.	4.0	4

#	ARTICLE	IF	CITATIONS
55	AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	20
56	Field Demonstrations of Wide-Beam Optical Communications Through Water-Air Interface. IEEE Access, 2020, 8, 160480-160489.	2.6	31
57	Nanoporous GaN-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3295-3303.	8.8	23
58	Performance Characterization of High and Low Power Prism based Tunable Blue Laser Diodes Systems. , 2020, , .		0
59	7.4-Gbit/s Visible-Light Communication Utilizing Wavelength-Selective Semipolar Micro-Photodetector. IEEE Photonics Technology Letters, 2020, , 1-1.	1.3	11
60	Optical Properties and First-Principles Study of CH ₃ NH ₃ PbBr ₃ Perovskite Structures. ACS Omega, 2020, 5, 12313-12319.	1.6	12
61	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. IEEE Communications Magazine, 2020, 58, 84-89.	4.9	31
62	Piezotronic AlGaIn nanowire Schottky junctions grown on a metal substrate. AIP Advances, 2020, 10, .	0.6	4
63	Iridocytes Mediate Photonic Cooperation Between Giant Clams (Tridacninae) and Their Photosynthetic Symbionts. Frontiers in Marine Science, 2020, 7, .	1.2	24
64	Early detection of red palm weevil using distributed optical sensor. Scientific Reports, 2020, 10, 3155.	1.6	38
65	Blue Laser Diode System With an Enhanced Wavelength Tuning Range. IEEE Photonics Journal, 2020, 12, 1-10.	1.0	6
66	THz behavior originates from different arrangements of coalescent GaN nanorods grown on Si (111) and Si (100) substrates. Applied Surface Science, 2020, 522, 146422.	3.1	6
67	Tunable Violet Laser Diode System for Optical Wireless Communication. IEEE Photonics Technology Letters, 2020, 32, 546-549.	1.3	8
68	Off-the-shelf laser diodes with narrow-line emission at visible wavelengths by integration of distributed feedback (DFB) surface grating (Conference Presentation). , 2020, , .		1
69	3.8-Gbit/s visible light communication (VLC) based on 443-nm superluminescent diode and bit-loading discrete-multiple-tone (DMT) modulation scheme. , 2020, , .		7
70	Gbit/s ultraviolet-C diffuse-line-of-sight communication based on probabilistically shaped DMT and diversity reception. Optics Express, 2020, 28, 9111.	1.7	29
71	2.4-Gbps Ultraviolet-C Solar-Blind Communication Based on Probabilistically Shaped DMT Modulation. , 2020, , .		11
72	480-nm distributed-feedback InGaIn laser diode for 10.5-Gbit/s visible-light communication. Optics Letters, 2020, 45, 742.	1.7	26

#	ARTICLE	IF	CITATIONS
73	Demonstration of a low-complexity memory-polynomial-aided neural network equalizer for CAP visible-light communication with superluminescent diode. Opto-Electronic Advances, 2020, 3, 200009-200009.	6.4	18
74	Sensing within the OTDR dead-zone using a two-mode fiber. Optics Letters, 2020, 45, 2969.	1.7	4
75	10-Gbit/s Sky-Blue Distributed Feedback Laser Diode-Based Visible Light Communication. , 2020, , .		0
76	1.5-Gbit/s Filter-free Optical Communication Link based on Wavelength-selective Semipolar ($20\ 21\ \text{\AA}^-$) InGaN/GaN Micro-photodetector. , 2020, , .		0
77	Performance of Temperature Tuned Red Laser Diode Employing Self Injection Locking Scheme. , 2020, , .		0
78	Single/Multi-wavelength green laser diode system. , 2020, , .		0
79	Hybrid distributed acoustic-temperature sensing using a few-mode fiber. , 2020, , .		2
80	Epitaxial growth of [beta]-Ga2O3/[epsilon]-Ga2O3 polymorphic heterostructures on c-plane sapphire for deep-ultraviolet optoelectronics. , 2020, , .		1
81	Prism-based tunable InGaN/GaN self-injection locked blue laser diode system: study of temperature, injection ratio, and stability. Journal of Nanophotonics, 2020, 14, 1.	0.4	1
82	Circulating exosomal CPNE3 as a diagnostic and prognostic biomarker for colorectal cancer. Journal of Cellular Physiology, 2019, 234, 1416-1425.	2.0	92
83	InAs/InP quantum-dash lasers. , 2019, , 109-138.		2
84	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. Nature Sustainability, 2019, 2, 718-724.	11.5	379
85	Impact of Turbulent-Flow-Induced Scintillation on Deep-Ocean Wireless Optical Communication. Journal of Lightwave Technology, 2019, 37, 5083-5090.	2.7	29
86	Single and Multiple Longitudinal Wavelength Generation in Green Diode Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	7
87	High-speed colour-converting photodetector with all-inorganic CsPbBr3 perovskite nanocrystals for ultraviolet light communication. Light: Science and Applications, 2019, 8, 94.	7.7	225
88	Investigating the Performance of a Few-Mode Fiber for Distributed Acoustic Sensing. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	13
89	Blue Superluminescent Diode on c-Plane GaN Beyond Gigahertz Modulation Bandwidth for Visible Light Communication. , 2019, , .		0
90	Unambiguously Enhanced Ultraviolet Luminescence of AlGaIn Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. Advanced Functional Materials, 2019, 29, 1905445.	7.8	128

#	ARTICLE	IF	CITATIONS
91	Tunable Dual-Wavelength Self-injection Locked InGaN/GaN Green Laser Diode. IEEE Access, 2019, 7, 143324-143330.	2.6	2
92	Spectrally Resolved Characterization of Thermally Induced Underwater Turbulence Using a Broadband White-Light Interrogator. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	6
93	Deep-Ultraviolet Photodetection Using Single-Crystalline $\text{In}^{2-}\text{Ga}^{2-}\text{O}^{3-}/\text{NiO}$ Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 35095-35104.	4.0	75
94	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. IEEE Communications Magazine, 2019, 57, 65-69.	4.9	25
95	Direct Growth of Single Crystalline GaN Nanowires on Indium Tin Oxide-Coated Silica. Nanoscale Research Letters, 2019, 14, 45.	3.1	5
96	Twofold Porosity and Surface Functionalization Effect on Pt@Porous GaN for High-Performance H_2 -Gas Sensors at Room Temperature. ACS Omega, 2019, 4, 1678-1684.	1.6	16
97	Group-III-Nitride Superluminescent Diodes for Solid-State Lighting and High-Speed Visible Light Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-10.	1.9	44
98	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
99	Narrow-line InGaN/GaN green laser diode with high-order distributed-feedback surface grating. Applied Physics Express, 2019, 12, 042007.	1.1	20
100	On the Reciprocity of Underwater Turbulent Channels. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	9
101	Deep-ultraviolet integrated photonic and optoelectronic devices: A prospect of the hybridization of group III nitrides, III oxides, and two-dimensional materials. Journal of Semiconductors, 2019, 40, 121801.	2.0	33
102	Deep-Ultraviolet $\text{In}^{2-}\text{Ga}_2\text{O}_3$ Photodetectors Grown on MgO Substrates with a TiN Template. , 2019, , .		1
103	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr ₃ Perovskite Nanocrystals on Silicon Platform. , 2019, , .		1
104	Laser-based visible light communications and underwater wireless optical communications: a device perspective. , 2019, , .		16
105	Functional integrity and stable high-temperature operation of planarized ultraviolet-A $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{Al}_y\text{Ga}_{1-y}\text{N}$ multiple-quantum-disk nanowire LEDs with charge-conduction promoting interlayer. , 2019, , .		3
106	Normalized differential method for improving the signal-to-noise ratio of a distributed acoustic sensor. Applied Optics, 2019, 58, 4933.	0.9	35
107	All-day radiative cooling using beam-controlled architectures. , 2019, , .		1
108	Producing OAM Information Carriers using Micro-structured Spiral Phase Plates. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
109	Electrical characterization of solar-blind deep-ultraviolet (Al _{0.28} Ga _{0.72}) ₂ O ₃ Schottky photodetectors grown on silicon by pulsed laser deposition. , 2019, , .		3
110	Improved solar hydrogen production by engineered doping of InGaN/GaN axial heterojunctions. Optics Express, 2019, 27, A81.	1.7	26
111	On the realization of across wavy water-air-interface diffuse-line-of-sight communication based on an ultraviolet emitter. Optics Express, 2019, 27, 19635.	1.7	42
112	Ultraviolet-to-blue color-converting scintillating-fibers photoreceiver for 375-nm laser-based underwater wireless optical communication. Optics Express, 2019, 27, 30450.	1.7	52
113	Toward self-powered and reliable visible light communication using amorphous silicon thin-film solar cells. Optics Express, 2019, 27, 34542.	1.7	27
114	Towards Early Detection of Red Palm Weevil Using Optical Fiber Distributed Acoustic Sensor. , 2019, , .		4
115	Enhanced electro-optic performance of surface-treated nanowires: origin and mechanism of nanoscale current injection for reliable ultraviolet light-emitting diodes. Optical Materials Express, 2019, 9, 203.	1.6	11
116	A tutorial on laser-based lighting and visible light communications: device and technology [Invited]. Chinese Optics Letters, 2019, 17, 040601.	1.3	4
117	The effect of turbulence on NLOS underwater wireless optical communication channels [Invited]. Chinese Optics Letters, 2019, 17, 100013.	1.3	21
118	Wideband self-injection-locked green tunable laser diode. , 2019, , .		1
119	Visible diode lasers for high bitrate underwater wireless optical communications. , 2019, , .		3
120	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC. , 2019, , .		1
121	Detecting Underwater Laguerre Gaussian Modes using a Convolutional Neural Network. , 2019, , .		0
122	Study on laser-based white light sources. , 2019, , .		2
123	Large intermixing in the InGaP/InAlGaP laser structure using stress engineering at elevated temperature. , 2019, , .		1
124	Performance enhancement of noisy distributed acoustic sensor using normalized differential method. , 2019, , .		0
125	Quasi-single mode operated few-mode fiber for distributed acoustic sensing. , 2019, , .		0
126	Ultraviolet-A LED Based on Quantum-Disks-In-AlGaP-Nanowires” Optimization and Device Reliability. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	8

#	ARTICLE	IF	CITATIONS
127	Power-dependent photoluminescence in strained In _x Ga _{1-x} N/GaN multiple-quantum wells: Simulations of alloying and interface-specific effects. , 2018, , .		0
128	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. ACS Energy Letters, 2018, 3, 476-481.	8.8	15
129	Surface-Passivated AlGaIn Nanowires for Enhanced Luminescence of Ultraviolet Light Emitting Diodes. ACS Photonics, 2018, 5, 964-970.	3.2	67
130	Water splitting to hydrogen over epitaxially grown InGaIn nanowires on a metallic titanium/silicon template: reduced interfacial transfer resistance and improved stability to hydrogen. Journal of Materials Chemistry A, 2018, 6, 6922-6930.	5.2	41
131	Role of quantum-confined stark effect on bias dependent photoluminescence of N-polar GaN/InGaIn multi-quantum disk amber light emitting diodes. Journal of Applied Physics, 2018, 123, .	1.1	20
132	Visible light communication using DC-biased optical filter bank multi-carrier modulation. , 2018, , .		17
133	Worst-case residual clipping noise power model for bit loading in LACO-OFDM. , 2018, , .		7
134	High Reflectivity YDH/SiO ₂ Distributed Bragg Reflector for UV-C Wavelength Regime. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	12
135	High Power GaN-Based Blue Superluminescent Diode Exceeding 450 mW. , 2018, , .		1
136	Ultraviolet-A LED Based on Quantum-Disks-in-AlGaIn-Nanowires”Optimization and Device Reliability. , 2018, , .		1
137	Observation of piezotronic and piezo-phototronic effects in n-InGaIn nanowires/Ti grown by molecular beam epitaxy. Nano Energy, 2018, 54, 264-271.	8.2	18
138	Enhanced performance of 450 nm GaN laser diodes with an optical feedback for high bit-rate visible light communication. , 2018, , .		1
139	Tunable self-injection locked green laser diode. Optics Letters, 2018, 43, 4931.	1.7	16
140	Scintillations of RGB laser beams in weak temperature and salinity-induced oceanic turbulence. , 2018, , .		13
141	InGaIn-based Nanowires on Conductive Substrates for Enhanced Solar Hydrogen Generation. , 2018, , .		0
142	Quantified hole concentration in AlGaIn nanowires for high-performance ultraviolet emitters. Nanoscale, 2018, 10, 15980-15988.	2.8	17
143	Investigation of Self-Injection Locked Visible Laser Diodes for High Bit-Rate Visible Light Communication. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	25
144	Flexible InGaIn nanowire membranes for enhanced solar water splitting. Optics Express, 2018, 26, A640.	1.7	13

#	ARTICLE	IF	CITATIONS
145	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. Optics Express, 2018, 26, 12870.	1.7	50
146	32 Gigabit-per-second Visible Light Communication Link with InGaN/GaN MQW Micro-photodetector. Optics Express, 2018, 26, 3037.	1.7	56
147	Free-space optical channel characterization and experimental validation in a coastal environment. Optics Express, 2018, 26, 6614.	1.7	36
148	Semipolar InGaN quantum-well laser diode with integrated amplifier for visible light communications. Optics Express, 2018, 26, A219.	1.7	23
149	Tapering-induced enhancement of light extraction efficiency of nanowire deep ultraviolet LED by theoretical simulations. Photonics Research, 2018, 6, 457.	3.4	27
150	III-nitride nanowires on unconventional substrates: From materials to optoelectronic device applications. Progress in Quantum Electronics, 2018, 61, 1-31.	3.5	76
151	Diode junction temperature in ultraviolet AlGaIn quantum-disks-in-nanowires. Journal of Applied Physics, 2018, 124, 015702.	1.1	11
152	Light based underwater wireless communications. Japanese Journal of Applied Physics, 2018, 57, 08PA06.	0.8	89
153	Direct Growth of III-Nitride Nanowire-Based Yellow Light-Emitting Diode on Amorphous Quartz Using Thin Ti Interlayer. Nanoscale Research Letters, 2018, 13, 41.	3.1	17
154	Enhanced photoelectrochemical performance of InGaIn-based nanowire photoanodes by optimizing the ionized dopant concentration. Journal of Applied Physics, 2018, 124, .	1.1	25
155	Graded-Index Separate Confinement Heterostructure AlGaIn Nanowires: Toward Ultraviolet Laser Diodes Implementation. ACS Photonics, 2018, 5, 3305-3314.	3.2	54
156	Special Section Guest Editorial: Semiconductor UV Photonics. Journal of Nanophotonics, 2018, 12, 1.	0.4	1
157	Review of nanophotonics approaches using nanostructures and nanofabrication for III-nitrides ultraviolet-photonics devices. Journal of Nanophotonics, 2018, 12, 1.	0.4	44
158	Unleashing the potential of molecular beam epitaxy grown AlGaIn-based ultraviolet-spectrum nanowires devices. Journal of Nanophotonics, 2018, 12, 1.	0.4	24
159	High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. Optics Express, 2018, 26, 26355.	1.7	44
160	Evolution of Junction Temperature and Heating Effects in UV AlGaIn Nanowires LEDs. , 2018, , .		0
161	Ti/TaN Bilayer for Efficient Injection and Reliable AlGaIn Nanowires LEDs. , 2018, , .		1
162	High Performance self-injection locked 524 nm green laser diode for high bitrate visible light communications. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
163	Impact of N-plasma and Ga-irradiation on MoS ₂ layer in molecular beam epitaxy. Applied Physics Letters, 2017, 110, .	1.5	38
164	Band Alignment at GaN/Single-Layer WSe ₂ Interface. ACS Applied Materials & Interfaces, 2017, 9, 9110-9117.	4.0	72
165	Health-friendly high-quality white light using violet-green-red laser and InGaN nanowires-based true yellow nanowires light-emitting diodes. , 2017, , .		3
166	Semipolar InGaN-based superluminescent diodes for solid-state lighting and visible light communications. Proceedings of SPIE, 2017, , .	0.8	6
167	Semipolar III-nitride quantum well waveguide photodetector integrated with laser diode for on-chip photonic system. Applied Physics Express, 2017, 10, 042201.	1.1	30
168	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. Nano Letters, 2017, 17, 1520-1528.	4.5	175
169	Unbiased photocatalytic hydrogen generation from pure water on stable Ir-treated In _{0.33} Ga _{0.67} N nanorods. Nano Energy, 2017, 37, 158-167.	8.2	49
170	Photoinduced entropy of InGaN/GaN p-i-n double-heterostructure nanowires. Applied Physics Letters, 2017, 110, .	1.5	50
171	InGaN/GaN nanowires epitaxy on large-area MoS ₂ for high-performance light-emitters. RSC Advances, 2017, 7, 26665-26672.	1.7	32
172	Self-planarized quantum-disks-in-nanowires ultraviolet-B emitters utilizing pendeo-epitaxy. Nanoscale, 2017, 9, 7805-7813.	2.8	36
173	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
174	Type-I band alignment at MoS ₂ /In _{0.15} Al _{0.85} N lattice matched heterojunction and realization of MoS ₂ quantum well. Applied Physics Letters, 2017, 111, .	1.5	30
175	Spatially resolved investigation of competing nanocluster emission in quantum-disks-in-nanowires structure characterized by nanoscale cathodoluminescence. Journal of Nanophotonics, 2017, 11, 026015.	0.4	3
176	Nanomembrane-Based, Thermal Transport Biosensor for Living Cells. Small, 2017, 13, 1603080.	5.2	19
177	Efficient Weibull channel model for salinity induced turbulent underwater wireless optical communications. , 2017, , .		33
178	Bandwidth enhancement of wireless optical communication link using a near-infrared laser over turbid underwater channel. , 2017, , .		9
179	Performance evaluation of underwater wireless optical communications links in the presence of different air bubble populations. , 2017, , .		3
180	Underwater wireless optical communications: From system-level demonstrations to channel modelling. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
181	Enhancing the Light-Extraction Efficiency of an AlGa _N Nanowire Ultraviolet Light-Emitting Diode by Using Nitride/Air Distributed Bragg Reflector Nanogratings. IEEE Photonics Journal, 2017, 9, 1-8.	1.0	15
182	Integrated photonic platform based on semipolar InGa _N /Ga _N multiple section laser diodes. , 2017, , .		2
183	Thermodynamic photoinduced disorder in AlGa _N nanowires. AIP Advances, 2017, 7, .	0.6	12
184	Going beyond 10-meter, Gbit/s underwater optical wireless communication links based on visible lasers. , 2017, , .		13
185	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS ₂ . Optical Materials Express, 2017, 7, 3697.	1.6	14
186	Droop-free Al _x Ga _{1-x} N/Al _y Ga _{1-y} N quantum-disks-in-nanowires ultraviolet LED emitting at 337 nm on metal/silicon substrates. Optics Express, 2017, 25, 1381.	1.7	60
187	71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. Optics Express, 2017, 25, 23267.	1.7	54
188	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. Optics Letters, 2017, 42, 3618.	1.7	23
189	Highly uniform ultraviolet-A quantum-confined AlGa _N nanowire LEDs on metal/silicon with a TaN interlayer. Optical Materials Express, 2017, 7, 4214.	1.6	27
190	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. Optics Letters, 2017, 42, 2455.	1.7	99
191	Continuous-wave Optically Pumped Lasing of Hybrid Perovskite VCSEL at Green Wavelength. , 2017, , .		0
192	Metallic blazed grating TE mode resonance conditions and diffraction efficiency optical transfer function. , 2017, , .		0
193	Design and Deployment of Mobile FSO Communication System. , 2017, , .		2
194	A Yellow Emitting InGa _N /Ga _N Nanowires-based Light Emitting Diode Grown on Scalable Quartz Substrate. , 2017, , .		0
195	Near-Infrared Wireless Optical Communication with Particulates In-Suspension over the Underwater Channel. , 2017, , .		5
196	Wireless optical transmission of 450 nm, 3.2 Gbit/s 16-QAM-OFDM signals over 6.6 m underwater channel. , 2016, , .		11
197	High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. Optics Express, 2016, 24, 20281.	1.7	50
198	20-meter underwater wireless optical communication link with 15 Gbps data rate. Optics Express, 2016, 24, 25502.	1.7	234

#	ARTICLE	IF	CITATIONS
199	On the optical and microstrain analysis of graded InGaN/GaN MQWs based on plasma assisted molecular beam epitaxy. <i>Optical Materials Express</i> , 2016, 6, 2052.	1.6	13
200	Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy. <i>Small</i> , 2016, 12, 2313-2320.	5.2	37
201	Droop-Free, Reliable, and High-Power InGaN/GaN Nanowire Light-Emitting Diodes for Monolithic Metal-Optoelectronics. <i>Nano Letters</i> , 2016, 16, 4616-4623.	4.5	101
202	Synthesis of In _{0.1} Ga _{0.9} N/GaN structures grown by MOCVD and MBE for high speed optoelectronics. <i>MRS Advances</i> , 2016, 1, 1735-1742.	0.5	7
203	Carbon nanotube-graphene composite film as transparent conductive electrode for GaN-based light-emitting diodes. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	20
204	Determination of band offsets at GaN/single-layer MoS ₂ heterojunction. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	64
205	InGaN/GaN nanowire LEDs and lasers. , 2016, , .		2
206	Large bandgap blueshifts in the InGaP/InAlGaP laser structure using novel strain-induced quantum well intermixing. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	12
207	High gain semiconductor optical amplifier " Laser diode at visible wavelength. , 2016, , .		4
208	Bandgap measurements and the peculiar splitting of E _{2H} phonon modes of In _x Al _{1-x} N nanowires grown by plasma assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	14
209	High-brightness semipolar (201Å ⁻¹) blue InGaN/GaN superluminescent diodes for droop-free solid-state lighting and visible-light communications. <i>Optics Letters</i> , 2016, 41, 2608.	1.7	54
210	Red to green emitters from InGaP/InAlGaP laser structure by strain-induced quantum-well intermixing. , 2016, , .		1
211	Hybrid perovskites: Approaches towards light-emitting devices. , 2016, , .		0
212	Optical constants of CH ₃ NH ₃ PbBr ₃ perovskite thin films measured by spectroscopic ellipsometry. <i>Optics Express</i> , 2016, 24, 16586.	1.7	108
213	Ultrabroad linewidth orange-emitting nanowires LED for high CRI laser-based white lighting and gigahertz communications. <i>Optics Express</i> , 2016, 24, 19228.	1.7	20
214	Effect of annealing InGaP/InAlGaP laser structure at 950Å°C on laser characteristics. <i>Journal of Nanophotonics</i> , 2016, 10, 036004.	0.4	3
215	True Yellow Light-Emitting Diodes as Phosphor for Tunable Color-Rendering Index Laser-Based White Light. <i>ACS Photonics</i> , 2016, 3, 2089-2095.	3.2	25
216	Growth and development of <i>Arabidopsis thaliana</i> under single-wavelength red and blue laser light. <i>Scientific Reports</i> , 2016, 6, 33885.	1.6	31

#	ARTICLE	IF	CITATIONS
217	GHz modulation enabled using large extinction ratio waveguide-modulator integrated with 404 nm GaN laser diode. , 2016, , .		2
218	Nanowires: Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy (Small 17/2016). Small, 2016, 12, 2312-2312.	5.2	1
219	Real-Space Visualization of Energy Loss and Carrier Diffusion in a Semiconductor Nanowire Array Using 4D Electron Microscopy. Advanced Materials, 2016, 28, 5106-5111.	11.1	27
220	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. Nanoscale, 2016, 8, 12294-12306.	2.8	127
221	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. ACS Photonics, 2016, 3, 1150-1156.	3.2	221
222	First demonstration of orange-yellow light emitter devices in InGaP/InAlGaP laser structure using strain-induced quantum well intermixing technique. , 2016, , .		5
223	High-Modulation-Efficiency, Integrated Waveguide Modulator-Laser Diode at 448 nm. ACS Photonics, 2016, 3, 262-268.	3.2	73
224	Comparison of nonpolar III-nitride vertical-cavity surface-emitting lasers with tunnel junction and ITO intracavity contacts. Proceedings of SPIE, 2016, , .	0.8	8
225	Enhanced Etching, Surface Damage Recovery, and Submicron Patterning of Hybrid Perovskites using a Chemically Gas-Assisted Focused-Ion Beam for Subwavelength Grating Photonic Applications. Journal of Physical Chemistry Letters, 2016, 7, 137-142.	2.1	80
226	Facile Formation of High-Quality InGaN/GaN Quantum-Disks-in-Nanowires on Bulk-Metal Substrates for High-Power Light-Emitters. Nano Letters, 2016, 16, 1056-1063.	4.5	84
227	GHz modulation bandwidth from single-longitudinal mode violet-blue VCSEL using nonpolar InGaN/GaN QWs. , 2016, , .		7
228	Direct Growth of High-Power InGaN/GaN Quantum-Disks-in-Nanowires Red Light-Emitting Diodes on Polycrystalline Molybdenum Substrates. , 2016, , .		0
229	High-performance InGaN/GaN Quantum-Disks-in-Nanowires Light-emitters for Monolithic Metal-Optoelectronics. , 2016, , .		0
230	Origin of competing blue and green emission in InGaN/GaN quantum-disks in nanowires heterostructure. , 2015, , .		0
231	2 Gbit/s data transmission from an unfiltered laser-based phosphor-converted white lighting communication system. Optics Express, 2015, 23, 29779.	1.7	103
232	Sub-100-nm lasing from post-growth intermixed InAs/GaAs quantum-dot lasers. Electronics Letters, 2015, 51, 1444-1445.	0.5	2
233	III-nitride disk-in-nanowire 1.2- μm monolithic diode laser on (001)silicon. Applied Physics Letters, 2015, 107, .	1.5	37
234	Recent progress in InAs/InP quantum dash nanostructures and devices. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
235	Achieving Uniform Carrier Distribution in MBE-Grown Compositionally Graded InGaN Multiple-Quantum-Well LEDs. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	22
236	High-Power and High-Efficiency 1.3- μm Superluminescent Diode With Flat-Top and Ultrawide Emission Bandwidth. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	10
237	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
238	First demonstration of InGaP/InAlGaP based 608nm orange laser and 583nm yellow superluminescent diode. , 2015, , .		2
239	Low modulation bias InGaN-based integrated EA-modulator-laser on semipolar GaN substrate. , 2015, , .		1
240	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH ₃ NH ₃ PbBr ₃ perovskites. Applied Physics Letters, 2015, 106, .	1.5	126
241	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockley-Read-Hall recombination. Nanoscale, 2015, 7, 16658-16665.	2.8	84
242	On the impact of indium distribution on the electronic properties in InGaN nanodisks. Applied Physics Letters, 2015, 106, 101910.	1.5	3
243	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. Optics Express, 2015, 23, 18746.	1.7	127
244	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
245	Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. Optics Express, 2015, 23, 7991.	1.7	15
246	23 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. Optics Express, 2015, 23, 20743.	1.7	178
247	InAs/GaAs quantum-dot intermixing: comparison of various dielectric encapsulants. Optical Engineering, 2015, 54, 107107.	0.5	3
248	Focused-ion beam patterning of organolead trihalide perovskite for subwavelength grating nanophotonic applications. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	0.6	49
249	First demonstration of InGaP/InAlGaP based orange laser emitting at 608Ånm. Electronics Letters, 2015, 51, 1102-1104.	0.5	14
250	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. Journal of Physical Chemistry Letters, 2015, 6, 5027-5033.	2.1	466
251	Charging suppression in focused-ion beam fabrication of visible subwavelength dielectric grating reflector using electron conducting polymer. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	0.6	6
252	Achieving Room Temperature Orange Lasing Using InGaP/InAlGaP Red Laser Diode. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
253	Enhancement of Hole Confinement by Monolayer Insertion in Asymmetric Quantum-Barrier UVB Light Emitting Diodes. IEEE Photonics Journal, 2014, 6, 1-9.	1.0	3
254	Enhancing Carrier Injection Using Graded Superlattice Electron Blocking Layer for UVB Light-Emitting Diodes. IEEE Photonics Journal, 2014, 6, 1-12.	1.0	5
255	High-Performance 1.55- μm Superluminescent Diode Based on Broad Gain InAs/InGaAlAs/InP Quantum Dash Active Region. IEEE Photonics Journal, 2014, 6, 1-8.	1.0	5
256	GaN Nano-membrane for Optoelectronic and Electronic Device Applications. , 2014, , .		0
257	Optical Gain and Absorption of 420 nm InGaN-based Laser Diodes Grown on m-Plane GaN Substrate. , 2014, , .		0
258	Red to Near-Infrared Emission from InGaN/GaN Quantum-Disks-in-Nanowires LED. , 2014, , .		2
259	Self-assembled InAs/InP quantum dots and quantum dashes: Material structures and devices. Progress in Quantum Electronics, 2014, 38, 237-313.	3.5	62
260	The formation of hexagonal-shaped InGaN-nanodisk on GaN-nanowire observed in plasma source molecular beam epitaxy. , 2014, , .		1
261	Extending quantum efficiency roll-over threshold with compositionally graded InGaN/GaN LED. , 2014, , .		0
262	Enhancing carrier injection in the active region of a 280nm emission wavelength LED using graded hole and electron blocking layers. Proceedings of SPIE, 2014, , .	0.8	0
263	Chemical exfoliation and optical characterization of threading-dislocation-free gallium-nitride ultrathin nanomembranes. , 2014, , .		0
264	Exfoliation of Threading Dislocation-Free, Single-Crystalline, Ultrathin Gallium Nitride Nanomembranes. Advanced Functional Materials, 2014, 24, 2305-2311.	7.8	32
265	Investigation of Chirped InAs/InGaAlAs/InP Quantum Dash Lasers as Broadband Emitters. IEEE Journal of Quantum Electronics, 2014, 50, 51-61.	1.0	22
266	Nanomembranes: Exfoliation of Threading Dislocation-Free, Single-Crystalline, Ultrathin Gallium Nitride Nanomembranes (Adv. Funct. Mater. 16/2014). Advanced Functional Materials, 2014, 24, 2412-2412.	7.8	2
267	Chirped InAs/InP quantum-dash laser with enhanced broad spectrum of stimulated emission. Applied Physics Letters, 2013, 102, 091102.	1.5	28
268	On the phenomenon of large photoluminescence red shift in GaN nanoparticles. Nanoscale Research Letters, 2013, 8, 342.	3.1	36
269	Effective antireflection properties of porous silicon nanowires for photovoltaic applications. , 2013, , .		8
270	Strain relief InGaN/GaN MQW micro-pillars for high brightness LEDs. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
271	InGaN micro-LED-pillar as the building block for high brightness emitters. , 2013, , .		6
272	A Simple FDTD Algorithm for Simulating EM-Wave Propagation in General Dispersive Anisotropic Material. IEEE Transactions on Antennas and Propagation, 2013, 61, 1321-1326.	3.1	26
273	Distinct Lasing Operation From Chirped InAs/InP Quantum-Dash Laser. IEEE Photonics Journal, 2013, 5, 1501308-1501308.	1.0	6
274	Simultaneous quantum dash-well emission in a chirped dash-in-well superluminescent diode with spectral bandwidth $>700\text{\AA}$ nm. Optics Letters, 2013, 38, 3720.	1.7	10
275	A possible approach on optical analogues of gravitational attractors. Optics Express, 2013, 21, 8298.	1.7	5
276	High performance superluminescent diode with InAs quantum-dashes and chirped AlGaInAs barriers active region. , 2013, , .		0
277	Numerically investigating the cause of broadband lasing from InAs/InP quantum-dash laser. , 2013, , .		0
278	Photonic analogies of gravitational attractors. , 2013, , .		0
279	Electron irradiation induced reduction of the permittivity in chalcogenide glass (As ₂ S ₃) thin film. Journal of Applied Physics, 2013, 113, 044116.	1.1	13
280	Effect of optical waveguiding mechanism on the lasing action of chirped InAs/AlGaInAs/InP quantum dash lasers. Proceedings of SPIE, 2013, , .	0.8	1
281	Surface States Effect on the Large Photoluminescence Redshift in GaN Nanostructures. , 2013, , .		1
282	Surface States Effect on the Large Photoluminescence Redshift in GaN Nanostructures. , 2013, , .		1
283	Mesa-height Dependent Quantum Efficiency Characteristics of InGaN Micro-LEDs. , 2013, , .		0
284	Increasing wavefunction overlap of carriers in an asymmetrically graded quantum well with polarization-effect-band-engineering.. , 2013, , .		0
285	Extremely wide lasing bandwidth from InAs/InP quantum-dash ridge-waveguide laser near $1.6\ \mu\text{m}$. , 2013, , .		1
286	Two-step controllable electrochemical etching of tungsten scanning probe microscopy tips. Review of Scientific Instruments, 2012, 83, 063708.	0.6	41
287	Room temperature strong coupling effects from single ZnO nanowire microcavity. Optics Express, 2012, 20, 11830.	1.7	24
288	Influence of vertical coupling on the lasing operation of quantum-dash laser. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
289	Thermal Annealing induced relaxation of compressive strain in porous GaN structures. , 2012, , .		5
290	Molecular Beam Epitaxy-Grown InGaN Nanomushrooms and Nanowires for White Light Source Applications. , 2012, , .		1
291	Generation of J ₀ -Bessel-Gauss beam by a heterogeneous refractive index map. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1252.	0.8	4
292	Reduced thermal quenching in indium-rich self-organized InGaN/GaN quantum dots. Journal of Applied Physics, 2012, 112, 063506.	1.1	2
293	Analysis of CMOS Compatible Cu-Based TM-Pass Optical Polarizer. IEEE Photonics Technology Letters, 2012, 24, 724-726.	1.3	38
294	Effect of hydrofluoric acid concentration on the evolution of photoluminescence characteristics in porous silicon nanowires prepared by Ag-assisted electroless etching method. Journal of Applied Physics, 2012, 112, .	1.1	54
295	Spectral Analysis of Quantum-Dash Lasers: Effect of Inhomogeneous Broadening of the Active-Gain Region. IEEE Journal of Quantum Electronics, 2012, 48, 608-615.	1.0	10
296	GaN Nanowires Synthesized by Electroless Etching Method. , 2012, , .		1
297	Emission Dynamics of InAs/InP Quantum-Dash Laser. , 2012, , .		0
298	Emission Dynamics of InAs/InP Quantum-Dash Laser. , 2012, , .		0
299	Simultaneous Formation of InGaN Nanostructures with Varying Shapes for White Light Source Applications. , 2012, , .		0
300	Effect of carrier relaxation lifetime on the performance of InAs/InP quantum-dash lasers. , 2011, , .		0
301	Fabrication of tuning-fork based AFM and STM tungsten probe. , 2011, , .		0
302	Optical and micro-structural characterizations of MBE grown indium gallium nitride polar quantum dots. , 2011, , .		0
303	Theoretical observation of two state lasing from InAs/InP quantum-dash lasers. , 2011, , .		0
304	Modeling the lasing spectra of InAs/InP Quantum dash lasers. Applied Physics Letters, 2011, 98, 101105.	1.5	14
305	ZnO nanorods for simultaneous light trapping and transparent electrode application in solar cells. , 2011, , .		1
306	Effect of the number of stacking layers on the characteristics of quantum-dash lasers. Optics Express, 2011, 19, 13378.	1.7	10

#	ARTICLE	IF	CITATIONS
307	Integrated Cu-based TM-pass polarizer using CMOS technology platform. , 2010, , .		0
308	Nanoheteroepitaxy of gallium arsenide on strain-compliant silicon-germanium nanowires. Journal of Applied Physics, 2010, 108, 024312.	1.1	2
309	Effect of active medium inhomogeneity on lasing characteristics of InAs/InP quantum-dash lasers. , 2010, , .		1
310	Integrated Cu-based TM-pass polarizer using CMOS technology platform. , 2010, , .		0
311	Engineering of refractive index in sulfide chalcogenide glass by direct laser writing. , 2010, , .		0
312	The influence of quantum-dash height on the differential gain and linewidth enhancement factor of InAs/InP quantum-dash lasers. , 2010, , .		0
313	Characteristics of quantum dash laser under the rate equation model framework. , 2010, , .		0
314	1E V GaN _{1-x} As _{1-x} Sb _y material for lattice-matched III-V solar cell implementation on GaAs and Ge. , 2009, , .		0
315	Recent Progress in Dilute Nitride-antimonide Materials for Photonic and Electronic Applications. ECS Transactions, 2009, 19, 5-29.	0.3	1
316	Study of surface microstructure origin and evolution for GaAs grown on Ge/Si _{1-x} Ge _x /Si substrate. Journal Physics D: Applied Physics, 2009, 42, 035303.	1.3	12
317	Origin and suppression of V-shaped defects in the capping of self-assembled InAs quantum dots on graded Si _{1-x} Ge _x /Si substrate. Applied Physics Letters, 2009, 95, 052111.	1.5	4
318	Molecular beam epitaxy growth of bulk GaNAsSb on Ge/graded-SiGe/Si substrate. Journal of Crystal Growth, 2009, 311, 1754-1757.	0.7	5
319	1.3- μm GaNAsSb-GaAs UTC-Photodetectors for 10-Gigabit Ethernet Links. IEEE Photonics Technology Letters, 2009, 21, 911-913.	1.3	4
320	14-GHz GaNAsSb Unitraveling-Carrier 1.3- μm Photodetectors Grown by RF Plasma-Assisted Nitrogen Molecular Beam Epitaxy. IEEE Electron Device Letters, 2009, 30, 590-592.	2.2	7
321	High responsivity GaNAsSb p-i-n photodetectors at 13 μm grown by radio-frequency nitrogen plasma-assisted molecular beam epitaxy. Optics Express, 2008, 16, 7720.	1.7	14
322	Characterization of GaAs grown on SiGe/Si graded substrates using p-n junction diodes. Journal of Applied Physics, 2008, 104, .	1.1	2
323	1.55 μm GaAs-GaNAsSb-GaAs optical waveguides grown by radio frequency nitrogen plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2008, 92, 113513.	1.5	5
324	GaNAsSb/GaAs waveguide photodetector with response up to 1.6 μm grown by molecular beam epitaxy. Applied Physics Letters, 2008, 93, 081102.	1.5	7

#	ARTICLE	IF	CITATIONS
325	Analysis and optimization of the annealing mechanisms in (In)GaAsN on GaAs. <i>Semiconductor Science and Technology</i> , 2006, 21, 808-812.	1.0	10
326	Thermally induced diffusion in GaInNAs/GaAs and GaInAs/GaAs quantum wells grown by solid source molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2005, 97, 013506.	1.1	13
327	The role of nitrogen-nitrogen pairs in the deviation of the GaAsN lattice parameter from Vegard's law. <i>Journal of Applied Physics</i> , 2004, 96, 2101-2104.	1.1	15
328	The Influence of Emitter Material on Silicon Nitride Passivation-Induced Degradation in InP-Based HBTs. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 8-13.	1.6	7
329	Determination of nitrogen composition in GaN _x As _{1-x} epilayer on GaAs. <i>Journal of Crystal Growth</i> , 2004, 268, 470-474.	0.7	27
330	Anomalous temperature-dependent photoluminescence characteristic of as-grown GaInNAs/GaAs quantum well grown by solid source molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2004, 270, 351-358.	0.7	3
331	Photoluminescence characterization of GaInNAs/GaAs quantum well carrier dynamics. <i>Journal of Applied Physics</i> , 2003, 94, 3110-3114.	1.1	14
332	Photoluminescence quenching mechanisms in GaInNAs/GaAs quantum well grown by solid source molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 2324.	1.6	13
333	Improved GaN _x As _{1-x} quality grown by molecular beam epitaxy with dispersive nitrogen source. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1364.	1.6	5
334	Effect of In and N incorporation on the properties of lattice-matched GaInNAs/GaAs grown by radio frequency plasma-assisted solid-source molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2091.	1.6	9
335	Photoluminescence characteristics of GaInNAs quantum wells annealed at high temperature. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 964.	1.6	25
336	Rapid thermal annealing of GaN _x As _{1-x} grown by radio-frequency plasma assisted molecular beam epitaxy and its effect on photoluminescence. <i>Journal of Applied Physics</i> , 2002, 91, 4900-4903.	1.1	48
337	Comparison of nitrogen compositions in the as-grown GaN _x As _{1-x} on GaAs measured by high-resolution x-ray diffraction and secondary-ion mass spectroscopy. <i>Applied Physics Letters</i> , 2002, 80, 4136-4138.	1.5	67
338	Molecular beam epitaxial growth of GaAs _{1-x} N _x with dispersive nitrogen source. <i>Journal of Crystal Growth</i> , 2002, 242, 87-94.	0.7	15
339	Effect of rapid thermal annealing: red and blue shift in photoluminescence of GaNAs grown by RF plasma-assisted molecular beam epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2001, 692, 1.	0.1	0
340	Study of High Nitrogen Compositions GaNAs and GaInNAs Material Quality by X-ray Diffraction and Photoluminescence. <i>Materials Research Society Symposia Proceedings</i> , 2001, 693, 643.	0.1	1
341	Low damage and low surface roughness GaInP etching in Cl ₂ /Ar electron cyclotron resonance process. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1775.	1.6	2