Tien Khee Ng

List of Publications by Year
in descending order

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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	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
2	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. Nature Sustainability, 2019, 2, 718-724.	11.5	379
3	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
4	20-meter underwater wireless optical communication link with 15 Gbps data rate. Optics Express, 2016, 24, 25502.	1.7	234
5	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
6	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. ACS Photonics, 2016, 3, 1150-1156.	3.2	221
7	23 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. Optics Express, 2015, 23, 20743.	1.7	178
8	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. Nano Letters, 2017, 17, 1520-1528.	4.5	175
9	Unambiguously Enhanced Ultraviolet Luminescence of AlGaN Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. Advanced Functional Materials, 2019, 29, 1905445.	7.8	128
10	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. Optics Express, 2015, 23, 18746.	1.7	127
11	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. Nanoscale, 2016, 8, 12294-12306.	2.8	127
12	Pt/AlGaN Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. Nano Letters, 2021, 21, 120-129.	4.5	127
13	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH3NH3PbBr3 perovskites. Applied Physics Letters, 2015, 106, .	1.5	126
14	A Review on Practical Considerations and Solutions in Underwater Wireless Optical Communication. Journal of Lightwave Technology, 2020, 38, 421-431.	2.7	126
15	Optical constants of CH_3NH_3PbBr_3 perovskite thin films measured by spectroscopic ellipsometry. Optics Express, 2016, 24, 16586.	1.7	108
16	2 Gbit/s data transmission from an unfiltered laser-based phosphor-converted white lighting communication system. Optics Express, 2015, 23, 29779.	1.7	103
17	Droop-Free, Reliable, and High-Power InGaN/GaN Nanowire Light-Emitting Diodes for Monolithic Metal-Optoelectronics. Nano Letters, 2016, 16, 4616-4623.	4.5	101
18	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. Optics Letters, 2017, 42, 2455.	1.7	99

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19	Circulating exosomal CPNE3 as a diagnostic and prognostic biomarker for colorectal cancer. Journal of Cellular Physiology, 2019, 234, 1416-1425.	2.0	92
20	Light based underwater wireless communications. Japanese Journal of Applied Physics, 2018, 57, 08PA06.	0.8	89
21	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
22	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockleyâ€“Readâ€“Hall recombination. Nanoscale, 2015, 7, 16658-16665.	2.8	84
23	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
24	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
25	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
26	III-nitride nanowires on unconventional substrates: From materials to optoelectronic device applications. Progress in Quantum Electronics, 2018, 61, 1-31.	3.5	76
27	Deep-Ultraviolet Photodetection Using Single-Crystalline Î²-Ga₂O₃/NiO Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 35095-35104.	4.0	75
28	High-Modulation-Efficiency, Integrated Waveguide Modulatorâ€“Laser Diode at 448 nm. ACS Photonics, 2016, 3, 262-268.	3.2	73
29	Band Alignment at GaN/Single-Layer WSe₂ Interface. ACS Applied Materials & Interfaces, 2017, 9, 9110-9117.	4.0	72
30	Comparison of nitrogen compositions in the as-grown GaNxAs1â^'x on GaAs measured by high-resolution x-ray diffraction and secondary-ion mass spectroscopy. Applied Physics Letters, 2002, 80, 4136-4138.	1.5	67
31	Surface-Passivated AlGaN Nanowires for Enhanced Luminescence of Ultraviolet Light Emitting Diodes. ACS Photonics, 2018, 5, 964-970.	3.2	67
32	Determination of band offsets at GaN/single-layer MoS2 heterojunction. Applied Physics Letters, 2016, 109, .	1.5	64
33	Self-assembled InAs/InP quantum dots and quantum dashes: Material structures and devices. Progress in Quantum Electronics, 2014, 38, 237-313.	3.5	62
34	Droop-free Al_xGa_{1-x}N/Al_yGa_{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
35	A Review of Distributed Fiberâ€“Optic Sensing in the Oil and Gas Industry. Journal of Lightwave Technology, 2022, 40, 1407-1431.	2.7	59
36	32 Gigabit-per-second Visible Light Communication Link with InGaN/GaN MQW Micro-photodetector. Optics Express, 2018, 26, 3037.	1.7	56

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37	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
38	High-brightness semipolar (2021Â¯) blue InGaN/GaN superluminescent diodes for droop-free solid-state lighting and visible-light communications. Optics Letters, 2016, 41, 2608.	1.7	54
39	71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. Optics Express, 2017, 25, 23267.	1.7	54
40	Graded-Index Separate Confinement Heterostructure AlGaN Nanowires: Toward Ultraviolet Laser Diodes Implementation. ACS Photonics, 2018, 5, 3305-3314.	3.2	54
41	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
42	High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. Optics Express, 2016, 24, 20281.	1.7	50
43	Photoinduced entropy of InGaN/GaN p-i-n double-heterostructure nanowires. Applied Physics Letters, 2017, 110, .	1.5	50
44	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. Optics Express, 2018, 26, 12870.	1.7	50
45	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
46	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
47	Rapid thermal annealing of GaNxAs1âˆ'x grown by radio-frequency plasma assisted molecular beam epitaxy and its effect on photoluminescence. Journal of Applied Physics, 2002, 91, 4900-4903.	1.1	48
48	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
49	Review of nanophotonics approaches using nanostructures and nanofabrication for III-nitrides ultraviolet-photonic devices. Journal of Nanophotonics, 2018, 12, 1.	0.4	44
50	High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. Optics Express, 2018, 26, 26355.	1.7	44
51	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
52	Two-step controllable electrochemical etching of tungsten scanning probe microscopy tips. Review of Scientific Instruments, 2012, 83, 063708.	0.6	41
53	Water splitting to hydrogen over epitaxially grown InGaN 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
54	Semipolar (20 21 Â¯) InGaN/GaN micro-photodetector for gigabit-per-second visible light communication. Applied Physics Express, 2020, 13, 014001.	1.1	39

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55	Analysis of CMOS Compatible Cu-Based TM-Pass Optical Polarizer. IEEE Photonics Technology Letters, 2012, 24, 724-726.	1.3	38
56	Impact of N-plasma and Ga-irradiation on MoS2 layer in molecular beam epitaxy. Applied Physics Letters, 2017, 110, .	1.5	38
57	Early detection of red palm weevil using distributed optical sensor. Scientific Reports, 2020, 10, 3155.	1.6	38
58	III-nitride disk-in-nanowire 1.2â€‰Î¼m monolithic diode laser on (001)silicon. Applied Physics Letters, 2015, 107, .	1.5	37
59	Enhanced Optoelectronic Performance of a Passivated Nanowireâ€Based Device: Key Information from Realâ€Space Imaging Using 4D Electron Microscopy. Small, 2016, 12, 2313-2320.	5.2	37
60	On the phenomenon of large photoluminescence red shift in GaN nanoparticles. Nanoscale Research Letters, 2013, 8, 342.	3.1	36
61	Self-planarized quantum-disks-in-nanowires ultraviolet-B emitters utilizing pendeo-epitaxy. Nanoscale, 2017, 9, 7805-7813.	2.8	36
62	Free-space optical channel characterization and experimental validation in a coastal environment. Optics Express, 2018, 26, 6614.	1.7	36
63	Normalized differential method for improving the signal-to-noise ratio of a distributed acoustic sensor. Applied Optics, 2019, 58, 4933.	0.9	35
64	Non-line-of-sight methodology for high-speed wireless optical communication in highly turbid water. Optics Communications, 2020, 461, 125264.	1.0	34
65	Efficient Weibull channel model for salinity induced turbulent underwater wireless optical communications. , 2017, , .		33
66	Deep-ultraviolet integrated photonic and optoelectronic devices: A prospect of the hybridization of group IIIâ€“nitrides, IIIâ€“oxides, and two-dimensional materials. Journal of Semiconductors, 2019, 40, 121801.	2.0	33
67	Exfoliation of Threading Dislocationâ€Free, Singleâ€Crystalline, Ultrathin Gallium Nitride Nanomembranes. Advanced Functional Materials, 2014, 24, 2305-2311.	7.8	32
68	InGaN/GaN nanowires epitaxy on large-area MoS2 for high-performance light-emitters. RSC Advances, 2017, 7, 26665-26672.	1.7	32
69	Survey of energy-autonomous solar cell receivers for satelliteâ€“airâ€“groundâ€“ocean optical wireless communication. Progress in Quantum Electronics, 2020, 74, 100300.	3.5	32
70	Growth and development of Arabidopsis thaliana under single-wavelength red and blue laser light. Scientific Reports, 2016, 6, 33885.	1.6	31
71	Field Demonstrations of Wide-Beam Optical Communications Through Waterâ€“Air Interface. IEEE Access, 2020, 8, 160480-160489.	2.6	31
72	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. IEEE Communications Magazine, 2020, 58, 84-89.	4.9	31

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73	Semipolar IIIâ€“nitride quantum well waveguide photodetector integrated with laser diode for on-chip photonic system. Applied Physics Express, 2017, 10, 042201.	1.1	30
74	Type-I band alignment at MoS2/In0.15Al0.85N lattice matched heterojunction and realization of MoS2 quantum well. Applied Physics Letters, 2017, 111, .	1.5	30
75	Impact of Turbulent-Flow-Induced Scintillation on Deep-Ocean Wireless Optical Communication. Journal of Lightwave Technology, 2019, 37, 5083-5090.	2.7	29
76	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
77	Chirped InAs/InP quantum-dash laser with enhanced broad spectrum of stimulated emission. Applied Physics Letters, 2013, 102, 091102.	1.5	28
78	Dual-wavelength luminescent fibers receiver for wide field-of-view, Gb/s underwater optical wireless communication. Optics Express, 2021, 29, 38014.	1.7	28
79	Determination of nitrogen composition in GaNxAs1â^'x epilayer on GaAs. Journal of Crystal Growth, 2004, 268, 470-474.	0.7	27
80	Realâ€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
81	Highly uniform ultraviolet-A quantum-confined AlGaN nanowire LEDs on metal/silicon with a TaN interlayer. Optical Materials Express, 2017, 7, 4214.	1.6	27
82	Tapering-induced enhancement of light extraction efficiency of nanowire deep ultraviolet LED by theoretical simulations. Photonics Research, 2018, 6, 457.	3.4	27
83	Toward self-powered and reliable visible light communication using amorphous silicon thin-film solar cells. Optics Express, 2019, 27, 34542.	1.7	27
84	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
85	Improved solar hydrogen production by engineered doping of InGaN/GaN axial heterojunctions. Optics Express, 2019, 27, A81.	1.7	26
86	480-nm distributed-feedback InGaN laser diode for 10.5-Gbit/s visible-light communication. Optics Letters, 2020, 45, 742.	1.7	26
87	Photoluminescence characteristics of GaInNAs quantum wells annealed at high temperature. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 964.	1.6	25
88	True Yellow Light-Emitting Diodes as Phosphor for Tunable Color-Rendering Index Laser-Based White Light. ACS Photonics, 2016, 3, 2089-2095.	3.2	25
89	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
90	Enhanced photoelectrochemical performance of InGaN-based nanowire photoanodes by optimizing the ionized dopant concentration. Journal of Applied Physics, 2018, 124, .	1.1	25

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91	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. IEEE Communications Magazine, 2019, 57, 65-69.	4.9	25
92	Towards Detecting Red Palm Weevil Using Machine Learning and Fiber Optic Distributed Acoustic Sensing. Sensors, 2021, 21, 1592.	2.1	25
93	Room temperature strong coupling effects from single ZnO nanowire microcavity. Optics Express, 2012, 20, 11830.	1.7	24
94	Iridocytes Mediate Photonic Cooperation Between Giant Clams (Tridacninae) and Their Photosynthetic Symbionts. Frontiers in Marine Science, 2020, 7, .	1.2	24
95	Unleashing the potential of molecular beam epitaxy grown AlGaN-based ultraviolet-spectrum nanowires devices. Journal of Nanophotonics, 2018, 12, 1.	0.4	24
96	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. Optics Letters, 2017, 42, 3618.	1.7	23
97	Semipolar InGaN quantum-well laser diode with integrated amplifier for visible light communications. Optics Express, 2018, 26, A219.	1.7	23
98	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3295-3303.	8.8	23
99	Wide-field-of-view optical detectors using fused fiber-optic tapers. Optics Letters, 2021, 46, 1916.	1.7	23
100	Metalâ€“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
101	Investigation of Chirped InAs/InGaAlAs/InP Quantum Dash Lasers as Broadband Emitters. IEEE Journal of Quantum Electronics, 2014, 50, 51-61.	1.0	22
102	Achieving Uniform Carrier Distribution in MBE-Grown Compositionally Graded InGaN Multiple-Quantum-Well LEDs. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	22
103	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
104	The effect of turbulence on NLOS underwater wireless optical communication channels [Invited]. Chinese Optics Letters, 2019, 17, 100013.	1.3	21
105	Carbon nanotube-graphene composite film as transparent conductive electrode for GaN-based light-emitting diodes. Applied Physics Letters, 2016, 109, .	1.5	20
106	Ultrabroad linewidth orange-emitting nanowires LED for high CRI laser-based white lighting and gigahertz communications. Optics Express, 2016, 24, 19228.	1.7	20
107	Role of quantum-confined stark effect on bias dependent photoluminescence of N-polar GaN/InGaN multi-quantum disk amber light emitting diodes. Journal of Applied Physics, 2018, 123, .	1.1	20
108	Narrow-line InGaN/GaN green laser diode with high-order distributed-feedback surface grating. Applied Physics Express, 2019, 12, 042007.	1.1	20

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109	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
110	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
111	Real-Time Optical-Wireless Video Surveillance System for High Visual-Fidelity Underwater Monitoring. IEEE Photonics Journal, 2022, 14, 1-9.	1.0	20
112	Nanomembraneâ€Based, Thermalâ€Transport Biosensor for Living Cells. Small, 2017, 13, 1603080.	5.2	19
113	All-inorganic halide-perovskite polymer-fiber-photodetector for high-speed optical wireless communication. Optics Express, 2022, 30, 9823.	1.7	19
114	Observation of piezotronic and piezo-phototronic effects in n-InGaN nanowires/Ti grown by molecular beam epitaxy. Nano Energy, 2018, 54, 264-271.	8.2	18
115	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
116	Visible light communication using DC-biased optical filter bank multi-carrier modulation. , 2018, , .		17
117	Quantified hole concentration in AlGaN nanowires for high-performance ultraviolet emitters. Nanoscale, 2018, 10, 15980-15988.	2.8	17
118	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
119	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
120	Toward Large-Scale Ga₂O₃ Membranes via Quasi-Van Der Waals Epitaxy on Epitaxial Graphene Layers. ACS Applied Materials & Interfaces, 2021, 13, 13410-13418.	4.0	17
121	Tunable self-injection locked green laser diode. Optics Letters, 2018, 43, 4931.	1.7	16
122	Twofold Porosity and Surface Functionalization Effect on Ptâ€“Porous GaN for High-Performance H₂-Gas Sensors at Room Temperature. ACS Omega, 2019, 4, 1678-1684.	1.6	16
123	A Review of Using Few-Mode Fibers for Optical Sensing. IEEE Access, 2020, 8, 179592-179605.	2.6	16
124	Laser-based visible light communications and underwater wireless optical communications: a device perspective. , 2019, , .		16
125	Molecular beam epitaxial growth of GaAs1â^'XNX with dispersive nitrogen source. Journal of Crystal Growth, 2002, 242, 87-94.	0.7	15
126	The role of nitrogen-nitrogen pairs in the deviation of the GaAsN lattice parameter from Vegardâ€™s law. Journal of Applied Physics, 2004, 96, 2010-2014.	1.1	15

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127	Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. Optics Express, 2015, 23, 7991.	1.7	15
128	Enhancing the Light-Extraction Efficiency of an AlGaN Nanowire Ultraviolet Light-Emitting Diode by Using Nitride/Air Distributed Bragg Reflector Nanogratings. IEEE Photonics Journal, 2017, 9, 1-8.	1.0	15
129	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. ACS Energy Letters, 2018, 3, 476-481.	8.8	15
130	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
131	Photoluminescence characterization of GaInNAs/GaAs quantum well carrier dynamics. Journal of Applied Physics, 2003, 94, 3110-3114.	1.1	14
132	High responsivity GaNAsSb p-i-n photodetectors at 13Âµm grown by radio-frequency nitrogen plasma-assisted molecular beam epitaxy. Optics Express, 2008, 16, 7720.	1.7	14
133	Modeling the lasing spectra of InAs/InP Quantum dash lasers. Applied Physics Letters, 2011, 98, 101105.	1.5	14
134	First demonstration of InGaP/InAlGaP based orange laser emitting at 608Ânm. Electronics Letters, 2015, 51, 1102-1104.	0.5	14
135	Bandgap measurements and the peculiar splitting of E2H phonon modes of InxAl1-xN nanowires grown by plasma assisted molecular beam epitaxy. Journal of Applied Physics, 2016, 120, .	1.1	14
136	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS_2. Optical Materials Express, 2017, 7, 3697.	1.6	14
137	Single-Crystalline All-Oxide Î±â€“Î³â€“Î² Heterostructures for Deep-Ultraviolet Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 53932-53941.	4.0	14
138	Photoluminescence quenching mechanisms in GaInNAs/GaAs quantum well grown by solid source molecular beam epitaxy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2324.	1.6	13
139	Thermally induced diffusion in GaInNAsâˆ•GaAs and GaInAsâˆ•GaAs quantum wells grown by solid source molecular beam epitaxy. Journal of Applied Physics, 2005, 97, 013506.	1.1	13
140	Electron irradiation induced reduction of the permittivity in chalcogenide glass (As2S3) thin film. Journal of Applied Physics, 2013, 113, 044116.	1.1	13
141	On the optical and microstrain analysis of graded InGaN/GaN MQWs based on plasma assisted molecular beam epitaxy. Optical Materials Express, 2016, 6, 2052.	1.6	13
142	Going beyond 10-meter, Gbit/s underwater optical wireless communication links based on visible lasers. , 2017, , .		13
143	Scintillations of RGB laser beams in weak temperature and salinity-induced oceanic turbulence. , 2018, , .		13
144	Flexible InGaN nanowire membranes for enhanced solar water splitting. Optics Express, 2018, 26, A640.	1.7	13

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145	Investigating the Performance of a Few-Mode Fiber for Distributed Acoustic Sensing. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	13
146	Study of surface microstructure origin and evolution for GaAs grown on Ge/Si_{1â^'x}Ge_x/Si substrate. Journal Physics D: Applied Physics, 2009, 42, 035303.	1.3	12
147	Large bandgap blueshifts in the InGaP/InAlGaP laser structure using novel strain-induced quantum well intermixing. Journal of Applied Physics, 2016, 119, .	1.1	12
148	Thermodynamic photoinduced disorder in AlGaN nanowires. AIP Advances, 2017, 7, .	0.6	12
149	High Reflectivity YDH/SiO2 Distributed Bragg Reflector for UV-C Wavelength Regime. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	12
150	Optical Properties and First-Principles Study of CH₃NH₃PbBr₃ Perovskite Structures. ACS Omega, 2020, 5, 12313-12319.	1.6	12
151	Wireless optical transmission of 450 nm, 3.2 Gbit/s 16-QAM-OFDM signals over 6.6 m underwater channel. , 2016, , .		11
152	Diode junction temperature in ultraviolet AlGaN quantum-disks-in-nanowires. Journal of Applied Physics, 2018, 124, 015702.	1.1	11
153	Underwater wireless optical communications: Opportunity, challenges and future prospects commentary on â€œRecent progress in and perspectives of underwater wireless optical communicationâ€. Progress in Quantum Electronics, 2020, 73, 100275.	3.5	11
154	Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	11
155	7.4-Gbit/s Visible-Light Communication Utilizing Wavelength-Selective Semipolar Micro-Photodetector. IEEE Photonics Technology Letters, 2020, , 1-1.	1.3	11
156	2.4-Gbps Ultraviolet-C Solar-Blind Communication Based on Probabilistically Shaped DMT Modulation. , 2020, , .		11
157	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
158	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
159	Analysis and optimization of the annealing mechanisms in (In)GaAsN on GaAs. Semiconductor Science and Technology, 2006, 21, 808-812.	1.0	10
160	Effect of the number of stacking layers on the characteristics of quantum-dash lasers. Optics Express, 2011, 19, 13378.	1.7	10
161	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
162	Simultaneous quantum dash-well emission in a chirped dash-in-well superluminescent diode with spectral bandwidth >700Ânm. Optics Letters, 2013, 38, 3720.	1.7	10

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163	High-Power and High-Efficiency 1.3- <named-content content-type="math" xlink:type="simple"> <inline-formula> <tex-math notation="TeX">$muhbox{m} $</tex-math></inline-formula></named-content> Superluminescent Diode With Flat-Top and Ultrawide Emission Bandwidth. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	10
164	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
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