

# Tien Khee Ng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

270  
papers

5,576  
citations

39  
h-index

64  
g-index

347  
ext. papers

6,966  
ext. citations

4.4  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
270	Real-time Optical-Wireless Video Surveillance System for High Visual-fidelity Underwater Monitoring. <i>IEEE Photonics Journal</i> , <b>2022</b> , 1-1	1.8	5
269	All-inorganic halide-perovskite polymer-fiber-photodetector for high-speed optical wireless communication.. <i>Optics Express</i> , <b>2022</b> , 30, 9823-9840	3.3	2
268	Boosted ultraviolet photodetection of AlGaIn quantum-disk nanowires via rational surface passivation. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 125101	3	2
267	Toward Automatic Subsea Operations Using Real-Time Underwater Optical Wireless Sensor Networks. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-8	1.8	3
266	Compact scintillating-fiber/450-nm-laser transceiver for full-duplex underwater wireless optical communication system under turbulence.. <i>Optics Express</i> , <b>2022</b> , 30, 53-69	3.3	7
265	Silicon-integrated monocrystalline oxide nitride heterostructures for deep-ultraviolet optoelectronics. <i>Optical Materials Express</i> , <b>2021</b> , 11, 4130	2.6	0
264	A Review of Distributed Fiber-optic Sensing in the Oil and Gas Industry. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	6
263	The Impact of Vertical Salinity Gradient on Non-Line-of-Sight Underwater Optical Wireless Communication. <i>IEEE Photonics Journal</i> , <b>2021</b> , 1-1	1.8	5
262	Optical Properties and First Principles Study of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Structures for Solar Cell Application. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 275-282	0.2	
261	Dual-wavelength luminescent fibers receiver for wide field-of-view, Gb/s underwater optical wireless communication. <i>Optics Express</i> , <b>2021</b> , 29, 38014-38026	3.3	9
260	InGaIn-based nanowires development for energy harvesting and conversion applications. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 121103	2.5	3
259	Toward Large-Scale GaO Membranes via Quasi-Van Der Waals Epitaxy on Epitaxial Graphene Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13410-13418	9.5	3
258	Colloidal PbS Quantum Dots for Visible-to-Near-Infrared Optical Internet of Things. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-11	1.8	2
257	Wide-field-of-view optical detectors using fused fiber-optic tapers. <i>Optics Letters</i> , <b>2021</b> , 46, 1916-1919	3	9
256	Giant clam inspired high-speed photo-conversion for ultraviolet optical wireless communication. <i>Optical Materials Express</i> , <b>2021</b> , 11, 1515	2.6	2
255	Heteroepitaxial BiGa <sub>2</sub> O <sub>3</sub> on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100142	6.8	3
254	Sustained Solar-Powered Electrocatalytic H <sub>2</sub> Production by Seawater Splitting Using Two-Dimensional Vanadium Disulfide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 8572-8580	8.3	2

253	Carrier localization and defect-insensitive optical behaviors of ultraviolet multiple quantum wells grown on patterned AlN nucleation layer. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 157589	5.7	
252	Improved H2 detection performance of GaN sensor with Pt/Sulfide treatment of porous active layer prepared by metal electroless etching. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4614-4625	6.7	5
251	Pt/AlGaIn Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. <i>Nano Letters</i> , <b>2021</b> , 21, 120-129	11.5	55
250	Group-III-nitride and halide-perovskite semiconductor gain media for amplified spontaneous emission and lasing applications. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 143001	3	7
249	Single-Port Superluminescent-Diode Gain-Chip for Tunable Single-Wavelength and Dual-Wavelength Blue-Laser. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-11	1.8	0
248	Towards Detecting Red Palm Weevil Using Machine Learning and Fiber Optic Distributed Acoustic Sensing. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
247	Heteroepitaxial EGa2O3 on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection (Adv. Mater. Technol. 9/2021). <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2170052	6.8	
246	Optical properties of freestanding GaN nanomembranes using monochromated valence-EELS. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 272, 115333	3.1	1
245	7.4-Gbit/s Visible-Light Communication Utilizing Wavelength-Selective Semipolar Micro-Photodetector. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 1-1	2.2	7
244	Optical Properties and First-Principles Study of CHNHPbBr Perovskite Structures. <i>ACS Omega</i> , <b>2020</b> , 5, 12313-12319	3.9	4
243	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. <i>IEEE Communications Magazine</i> , <b>2020</b> , 58, 84-89	9.1	12
242	Piezotronic AlGaIn nanowire Schottky junctions grown on a metal substrate. <i>AIP Advances</i> , <b>2020</b> , 10, 055014	0.4	4
241	Iridocytes Mediate Photonic Cooperation Between Giant Clams (Tridacninae) and Their Photosynthetic Symbionts. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	17
240	Early detection of red palm weevil using distributed optical sensor. <i>Scientific Reports</i> , <b>2020</b> , 10, 3155	4.9	17
239	Blue Laser Diode System With an Enhanced Wavelength Tuning Range. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-10	1.8	2
238	THz behavior originates from different arrangements of coalescent GaN nanorods grown on Si (111) and Si (100) substrates. <i>Applied Surface Science</i> , <b>2020</b> , 522, 146422	6.7	3
237	3.8-Gbit/s visible light communication (VLC) based on 443-nm superluminescent diode and bit-loading discrete-multiple-tone (DMT) modulation scheme <b>2020</b> ,		2
236	Gbit/s ultraviolet-C diffuse-line-of-sight communication based on probabilistically shaped DMT and diversity reception. <i>Optics Express</i> , <b>2020</b> , 28, 9111-9122	3.3	16

235	2.4-Gbps Ultraviolet-C Solar-Blind Communication Based on Probabilistically Shaped DMT Modulation <b>2020</b> ,		3
234	480-nm distributed-feedback InGaN laser diode for 10.5-Gbit/s visible-light communication. <i>Optics Letters</i> , <b>2020</b> , 45, 742-745	3	15
233	Prism-based tunable InGaN/GaN self-injection locked blue laser diode system: study of temperature, injection ratio, and stability. <i>Journal of Nanophotonics</i> , <b>2020</b> , 14, 1	1.1	1
232	Demonstration of a low-complexity memory-polynomial-aided neural network equalizer for CAP visible-light communication with superluminescent diode. <i>Opto-Electronic Advances</i> , <b>2020</b> , 3, 200009-200009	6.5	3
231	Sensing within the OTDR dead-zone using a two-mode fiber. <i>Optics Letters</i> , <b>2020</b> , 45, 2969-2972	3	2
230	Simultaneous Distributed Acoustic and Temperature Sensing Using a Multimode Fiber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-7	3.8	7
229	Non-line-of-sight methodology for high-speed wireless optical communication in highly turbid water. <i>Optics Communications</i> , <b>2020</b> , 461, 125264	2	19
228	Semipolar ( $\text{In}_{0.2}\text{Ga}_{0.8}\text{N}$ ) InGaN/GaN micro-photodetector for gigabit-per-second visible light communication. <i>Applied Physics Express</i> , <b>2020</b> , 13, 014001	2.4	20
227	Time-Energy Quantum Uncertainty: Quantifying the Effectiveness of Surface Defect Passivation Protocols for Low-Dimensional Semiconductors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 409-418	4	2
226	A Review on Practical Considerations and Solutions in Underwater Wireless Optical Communication. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 421-431	4	41
225	A Review of Using Few-Mode Fibers for Optical Sensing. <i>IEEE Access</i> , <b>2020</b> , 8, 179592-179605	3.5	7
224	Survey of energy-autonomous solar cell receivers for satellite-ground-sea optical wireless communication. <i>Progress in Quantum Electronics</i> , <b>2020</b> , 74, 100300	9.1	11
223	Characterization of epitaxial titanium nitride mediated single-crystal nickel oxide grown on MgO-(100) and Si-(100). <i>AIP Advances</i> , <b>2020</b> , 10, 065318	1.5	2
222	Titanium Carbide MXene Nucleation Layer for Epitaxial Growth of High-Quality GaN Nanowires on Amorphous Substrates. <i>ACS Nano</i> , <b>2020</b> , 14, 2202-2211	16.7	5
221	Single-Crystalline All-Oxide Heterostructures for Deep-Ultraviolet Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> ,	9.5	8
220	Underwater wireless optical communications: Opportunity, challenges and future prospects commentary on Recent progress in and perspectives of underwater wireless optical communication <i>Progress in Quantum Electronics</i> , <b>2020</b> , 73, 100275	9.1	3
219	Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-13	1.8	5
218	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41649-41658	9.5	3

217	AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-13	1.8	14
216	Field Demonstrations of Wide-Beam Optical Communications Through Water-Air Interface. <i>IEEE Access</i> , <b>2020</b> , 8, 160480-160489	3.5	18
215	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3295-3303	20.1	6
214	Tunable Violet Laser Diode System for Optical Wireless Communication. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 546-549	2.2	5
213	Deep-Ultraviolet Photodetection Using Single-Crystalline GaO/NiO Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35095-35104	9.5	48
212	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. <i>IEEE Communications Magazine</i> , <b>2019</b> , 57, 65-69	9.1	13
211	Direct Growth of Single Crystalline GaN Nanowires on Indium Tin Oxide-Coated Silica. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 45	5	3
210	Twofold Porosity and Surface Functionalization Effect on Pt-Porous GaN for High-Performance H-Gas Sensors at Room Temperature. <i>ACS Omega</i> , <b>2019</b> , 4, 1678-1684	3.9	8
209	Group-III-Nitride Superluminescent Diodes for Solid-State Lighting and High-Speed Visible Light Communications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-10	3.8	25
208	Analysis of optical injection on red and blue laser diodes for high bit-rate visible light communication. <i>Optics Communications</i> , <b>2019</b> , 449, 79-85	2	6
207	Narrow-line InGaN/GaN green laser diode with high-order distributed-feedback surface grating. <i>Applied Physics Express</i> , <b>2019</b> , 12, 042007	2.4	16
206	Circulating exosomal CPNE3 as a diagnostic and prognostic biomarker for colorectal cancer. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 1416-1425	7	58
205	InAs/InP quantum-dash lasers <b>2019</b> , 109-138		2
204	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. <i>Nature Sustainability</i> , <b>2019</b> , 2, 718-724	22.1	162
203	. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5083-5090	4	14
202	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-7	3.8	4
201	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 94	16.7	125
200	Investigating the Performance of a Few-Mode Fiber for Distributed Acoustic Sensing. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-10	1.8	5

199	Unambiguously Enhanced Ultraviolet Luminescence of AlGa <sub>N</sub> Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905445	15.6	85
198	Tunable Dual-Wavelength Self-injection Locked InGa <sub>N</sub> /Ga <sub>N</sub> Green Laser Diode. <i>IEEE Access</i> , <b>2019</b> , 7, 143324-143330	3.5	1
197	Spectrally Resolved Characterization of Thermally Induced Underwater Turbulence Using a Broadband White-Light Interrogator. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-9	1.8	4
196	Laser-based visible light communications and underwater wireless optical communications: a device perspective <b>2019</b> ,		8
195	Functional integrity and stable high-temperature operation of planarized ultraviolet-A Al <sub>x</sub> Ga <sub>1-x</sub> N/AlyGa <sub>1-y</sub> N multiple-quantum-disk nanowire LEDs with charge-conduction promoting interlayer <b>2019</b> ,		2
194	Normalized differential method for improving the signal-to-noise ratio of a distributed acoustic sensor. <i>Applied Optics</i> , <b>2019</b> , 58, 4933-4938	1.7	14
193	All-day radiative cooling using beam-controlled architectures <b>2019</b> ,		1
192	Producing OAM Information Carriers using Micro-structured Spiral Phase Plates <b>2019</b> ,		1
191	Electrical characterization of solar-blind deep-ultraviolet (Al <sub>0.28</sub> Ga <sub>0.72</sub> ) <sub>2</sub> O <sub>3</sub> Schottky photodetectors grown on silicon by pulsed laser deposition <b>2019</b> ,		2
190	Improved solar hydrogen production by engineered doping of InGa <sub>N</sub> /Ga <sub>N</sub> axial heterojunctions. <i>Optics Express</i> , <b>2019</b> , 27, A81-A91	3.3	12
189	On the realization of across wavy water-air-interface diffuse-line-of-sight communication based on an ultraviolet emitter. <i>Optics Express</i> , <b>2019</b> , 27, 19635-19649	3.3	26
188	Ultraviolet-to-blue color-converting scintillating-fibers photoreceiver for 375-nm laser-based underwater wireless optical communication. <i>Optics Express</i> , <b>2019</b> , 27, 30450-30461	3.3	21
187	Toward self-powered and reliable visible light communication using amorphous silicon thin-film solar cells. <i>Optics Express</i> , <b>2019</b> , 27, 34542-34551	3.3	17
186	Towards Early Detection of Red Palm Weevil Using Optical Fiber Distributed Acoustic Sensor <b>2019</b> ,		3
185	Enhanced electro-optic performance of surface-treated nanowires: origin and mechanism of nanoscale current injection for reliable ultraviolet light-emitting diodes. <i>Optical Materials Express</i> , <b>2019</b> , 9, 203	2.6	10
184	A tutorial on laser-based lighting and visible light communications: device and technology [Invited]. <i>Chinese Optics Letters</i> , <b>2019</b> , 17, 040601	2.2	3
183	The effect of turbulence on NLOS underwater wireless optical communication channels [Invited]. <i>Chinese Optics Letters</i> , <b>2019</b> , 17, 100013	2.2	11
182	Visible diode lasers for high bitrate underwater wireless optical communications <b>2019</b> ,		1

181	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC <b>2019</b> ,		1
180	Study on laser-based white light sources <b>2019</b> ,		2
179	On the Reciprocity of Underwater Turbulent Channels. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-9	1.8	7
178	Deep-ultraviolet integrated photonic and optoelectronic devices: A prospect of the hybridization of group III nitrides, III oxides, and two-dimensional materials. <i>Journal of Semiconductors</i> , <b>2019</b> , 40, 121801	2.3	17
177	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr <sub>3</sub> Perovskite Nanocrystals on Silicon Platform <b>2019</b> ,		1
176	Ultraviolet-A LED Based on Quantum-Disks-In-AlGa <sub>N</sub> -Nanowires Optimization and Device Reliability. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-11	1.8	8
175	Imaging Localized Energy States in Silicon-Doped InGa <sub>N</sub> Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 476-481	20.1	11
174	Surface-Passivated AlGa <sub>N</sub> Nanowires for Enhanced Luminescence of Ultraviolet Light Emitting Diodes. <i>ACS Photonics</i> , <b>2018</b> , 5, 964-970	6.3	54
173	Water splitting to hydrogen over epitaxially grown InGa <sub>N</sub> nanowires on a metallic titanium/silicon template: reduced interfacial transfer resistance and improved stability to hydrogen. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6922-6930	13	30
172	Role of quantum-confined stark effect on bias dependent photoluminescence of N-polar Ga <sub>N</sub> /InGa <sub>N</sub> multi-quantum disk amber light emitting diodes. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 105702 <sup>2,5</sup>		18
171	Visible light communication using DC-biased optical filter bank multi-carrier modulation <b>2018</b> ,		9
170	Worst-case residual clipping noise power model for bit loading in LACO-OFDM <b>2018</b> ,		6
169	High Reflectivity YDH/SiO <sub>2</sub> Distributed Bragg Reflector for UV-C Wavelength Regime. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-8	1.8	9
168	Flexible InGa <sub>N</sub> nanowire membranes for enhanced solar water splitting. <i>Optics Express</i> , <b>2018</b> , 26, A640-A650	3.5	11
167	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. <i>Optics Express</i> , <b>2018</b> , 26, 12870-12877	3.3	31
166	3.2 Gigabit-per-second Visible Light Communication Link with InGa <sub>N</sub> /Ga <sub>N</sub> MQW Micro-photodetector. <i>Optics Express</i> , <b>2018</b> , 26, 3037-3045	3.3	39
165	Free-space optical channel characterization and experimental validation in a coastal environment. <i>Optics Express</i> , <b>2018</b> , 26, 6614-6628	3.3	22
164	Semipolar InGa <sub>N</sub> quantum-well laser diode with integrated amplifier for visible light communications. <i>Optics Express</i> , <b>2018</b> , 26, A219-A226	3.3	19

163	Tapering-induced enhancement of light extraction efficiency of nanowire deep ultraviolet LED by theoretical simulations. <i>Photonics Research</i> , <b>2018</b> , 6, 457	6	24
162	III-nitride nanowires on unconventional substrates: From materials to optoelectronic device applications. <i>Progress in Quantum Electronics</i> , <b>2018</b> , 61, 1-31	9.1	45
161	Diode junction temperature in ultraviolet AlGaIn quantum-disks-in-nanowires. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 015702	2.5	7
160	Light based underwater wireless communications. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 08PA061.4	4.4	47
159	Direct Growth of III-Nitride Nanowire-Based Yellow Light-Emitting Diode on Amorphous Quartz Using Thin Ti Interlayer. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 41	5	13
158	Enhanced photoelectrochemical performance of InGaIn-based nanowire photoanodes by optimizing the ionized dopant concentration. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 083105	2.5	15
157	Graded-Index Separate Confinement Heterostructure AlGaIn Nanowires: Toward Ultraviolet Laser Diodes Implementation. <i>ACS Photonics</i> , <b>2018</b> , 5, 3305-3314	6.3	37
156	Special Section Guest Editorial: Semiconductor UV Photonics. <i>Journal of Nanophotonics</i> , <b>2018</b> , 12, 1	1.1	1
155	Review of nanophotonics approaches using nanostructures and nanofabrication for III-nitrides ultraviolet-photonic devices. <i>Journal of Nanophotonics</i> , <b>2018</b> , 12, 1	1.1	28
154	Unleashing the potential of molecular beam epitaxy grown AlGaIn-based ultraviolet-spectrum nanowires devices. <i>Journal of Nanophotonics</i> , <b>2018</b> , 12, 1	1.1	19
153	High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. <i>Optics Express</i> , <b>2018</b> , 26, 26355-26364	3.3	31
152	High Power GaN-Based Blue Superluminescent Diode Exceeding 450 mW <b>2018</b> ,		1
151	Observation of piezotronic and piezo-phototronic effects in n-InGaIn nanowires/Ti grown by molecular beam epitaxy. <i>Nano Energy</i> , <b>2018</b> , 54, 264-271	17.1	17
150	Enhanced performance of 450 nm GaIn laser diodes with an optical feedback for high bit-rate visible light communication <b>2018</b> ,		1
149	Tunable self-injection locked green laser diode. <i>Optics Letters</i> , <b>2018</b> , 43, 4931-4934	3	8
148	Scintillations of RGB laser beams in weak temperature and salinity-induced oceanic turbulence <b>2018</b> ,		9
147	Quantified hole concentration in AlGaIn nanowires for high-performance ultraviolet emitters. <i>Nanoscale</i> , <b>2018</b> , 10, 15980-15988	7.7	14
146	Investigation of Self-Injection Locked Visible Laser Diodes for High Bit-Rate Visible Light Communication. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-11	1.8	18



145	Impact of N-plasma and Ga-irradiation on MoS <sub>2</sub> layer in molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 012101	3-4	34
144	Band Alignment at GaN/Single-Layer WSe Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9110-9117	3-9	147
143	Health-friendly high-quality white light using violet-green-red laser and InGaN nanowires-based true yellow nanowires light-emitting diodes <b>2017</b> ,		3
142	Semipolar InGaN-based superluminescent diodes for solid-state lighting and visible light communications <b>2017</b> ,		6
141	Semipolar IIIbtride quantum well waveguide photodetector integrated with laser diode for on-chip photonic system. <i>Applied Physics Express</i> , <b>2017</b> , 10, 042201	2-4	24
140	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. <i>Nano Letters</i> , <b>2017</b> , 17, 1520-1528	11-5	129
139	Unbiased photocatalytic hydrogen generation from pure water on stable Ir-treated In <sub>0.33</sub> Ga <sub>0.67</sub> N nanorods. <i>Nano Energy</i> , <b>2017</b> , 37, 158-167	17-1	43
138	Photoinduced entropy of InGaN/GaN p-i-n double-heterostructure nanowires. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 161110	3-4	35
137	InGaN/GaN nanowires epitaxy on large-area MoS <sub>2</sub> for high-performance light-emitters. <i>RSC Advances</i> , <b>2017</b> , 7, 26665-26672	3-7	24
136	Self-planarized quantum-disks-in-nanowires ultraviolet-B emitters utilizing pendeo-epitaxy. <i>Nanoscale</i> , <b>2017</b> , 9, 7805-7813	7-7	28
135	Performance Evaluation of Underwater Wireless Optical Communications Links in the Presence of Different Air Bubble Populations. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-9	1-8	58
134	Type-I band alignment at MoS <sub>2</sub> /In <sub>0.15</sub> Al <sub>0.85</sub> N lattice matched heterojunction and realization of MoS <sub>2</sub> quantum well. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 092104	3-4	22
133	Spatially resolved investigation of competing nanocluster emission in quantum-disks-in-nanowires structure characterized by nanoscale cathodoluminescence. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 026015	1-1	3
132	Nanomembrane-Based, Thermal-Transport Biosensor for Living Cells. <i>Small</i> , <b>2017</b> , 13, 1603080	11	15
131	Efficient Weibull channel model for salinity induced turbulent underwater wireless optical communications <b>2017</b> ,		22
130	Bandwidth enhancement of wireless optical communication link using a near-infrared laser over turbid underwater channel <b>2017</b> ,		8
129	Performance evaluation of underwater wireless optical communications links in the presence of different air bubble populations <b>2017</b> ,		1
128	Underwater wireless optical communications: From system-level demonstrations to channel modelling <b>2017</b> ,		3

127	Enhancing the Light-Extraction Efficiency of an AlGa <sub>N</sub> Nanowire Ultraviolet Light-Emitting Diode by Using Nitride/Air Distributed Bragg Reflector Nanogratings. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-8	1.8	13
126	Integrated photonic platform based on semipolar InGa <sub>N</sub> /Ga <sub>N</sub> multiple section laser diodes <b>2017</b> ,		2
125	Thermodynamic photoinduced disorder in AlGa <sub>N</sub> nanowires. <i>AIP Advances</i> , <b>2017</b> , 7, 125113	1.5	10
124	Going beyond 10-meter, Gbit/s underwater optical wireless communication links based on visible lasers <b>2017</b> ,		7
123	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS <sub>2</sub> . <i>Optical Materials Express</i> , <b>2017</b> , 7, 3697	2.6	8
122	Droop-free Al <sub>x</sub> Ga <sub>1-x</sub> N/Al <sub>y</sub> Ga <sub>1-y</sub> N quantum-disks-in-nanowires ultraviolet LED emitting at 337 nm on metal/silicon substrates. <i>Optics Express</i> , <b>2017</b> , 25, 1381-1390	3.3	54
121	71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. <i>Optics Express</i> , <b>2017</b> , 25, 23267-23274	3.3	37
120	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. <i>Optics Letters</i> , <b>2017</b> , 42, 3618-3621	3	17
119	Highly uniform ultraviolet-A quantum-confined AlGa <sub>N</sub> nanowire LEDs on metal/silicon with a TaN interlayer. <i>Optical Materials Express</i> , <b>2017</b> , 7, 4214	2.6	21
118	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. <i>Optics Letters</i> , <b>2017</b> , 42, 2455-2458	3	61
117	Design and Deployment of Mobile FSO Communication System <b>2017</b> ,		2
116	Near-Infrared Wireless Optical Communication with Particulates In-Suspension over the Underwater Channel <b>2017</b> ,		3
115	Ultrabroad linewidth orange-emitting nanowires LED for high CRI laser-based white lighting and gigahertz communications. <i>Optics Express</i> , <b>2016</b> , 24, 19228-36	3.3	19
114	Effect of annealing InGaP/InAlGaP laser structure at 950°C on laser characteristics. <i>Journal of Nanophotonics</i> , <b>2016</b> , 10, 036004	1.1	2
113	True Yellow Light-Emitting Diodes as Phosphor for Tunable Color-Rendering Index Laser-Based White Light. <i>ACS Photonics</i> , <b>2016</b> , 3, 2089-2095	6.3	21
112	Growth and development of <i>Arabidopsis thaliana</i> under single-wavelength red and blue laser light. <i>Scientific Reports</i> , <b>2016</b> , 6, 33885	4.9	21
111	GHz modulation enabled using large extinction ratio waveguide-modulator integrated with 404 nm Ga <sub>N</sub> laser diode <b>2016</b> ,		2
110	Nanowires: Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy (Small 17/2016). <i>Small</i> , <b>2016</b> , 12, 2312	11	1

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108	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. <i>Nanoscale</i> , <b>2016</b> , 8, 12294-306	7.7	95
107	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , <b>2016</b> , 3, 1150-1156	6.3	171
106	First demonstration of orange-yellow light emitter devices in InGaP/InAlGaP laser structure using strain-induced quantum well intermixing technique <b>2016</b> ,		4
105	High-Modulation-Efficiency, Integrated Waveguide Modulator Laser Diode at 448 nm. <i>ACS Photonics</i> , <b>2016</b> , 3, 262-268	6.3	59
104	Comparison of nonpolar III-nitride vertical-cavity surface-emitting lasers with tunnel junction and ITO intracavity contacts <b>2016</b> ,		3
103	Enhanced Etching, Surface Damage Recovery, and Submicron Patterning of Hybrid Perovskites using a Chemically Gas-Assisted Focused-Ion Beam for Subwavelength Grating Photonic Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 137-42	6.4	55
102	Facile Formation of High-Quality InGaN/GaN Quantum-Disks-in-Nanowires on Bulk-Metal Substrates for High-Power Light-Emitters. <i>Nano Letters</i> , <b>2016</b> , 16, 1056-63	11.5	73
101	GHz modulation bandwidth from single-longitudinal mode violet-blue VCSEL using nonpolar InGaN/GaN QWs <b>2016</b> ,		3
100	Wireless optical transmission of 450 nm, 3.2 Gbit/s 16-QAM-OFDM signals over 6.6 m underwater channel <b>2016</b> ,		8
99	High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. <i>Optics Express</i> , <b>2016</b> , 24, 20281-6	3.3	41
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96	Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy. <i>Small</i> , <b>2016</b> , 12, 2313-20	11	34
95	Droop-Free, Reliable, and High-Power InGaN/GaN Nanowire Light-Emitting Diodes for Monolithic Metal-Optoelectronics. <i>Nano Letters</i> , <b>2016</b> , 16, 4616-23	11.5	81
94	Synthesis of In <sub>0.1</sub> Ga <sub>0.9</sub> N/GaN structures grown by MOCVD and MBE for high speed optoelectronics. <i>MRS Advances</i> , <b>2016</b> , 1, 1735-1742	0.7	4
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92	Determination of band offsets at GaN/single-layer MoS <sub>2</sub> heterojunction. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 032104	3.4	52

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81	4.8 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. <i>Optics Express</i> , <b>2015</b> , 23, 23302-9	3.3	189
80	Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. <i>Optics Express</i> , <b>2015</b> , 23, 7991-8	3.3	13
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77	Focused-ion beam patterning of organolead trihalide perovskite for subwavelength grating nanophotonic applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 051207	1.3	37
76	First demonstration of InGaP/InAlGaP based orange laser emitting at 608 nm. <i>Electronics Letters</i> , <b>2015</b> , 51, 1102-1104	1.1	8
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