Boon S Ooi

List of Publications by Year in Descending Order

301 papers	6,937 citations	45 h-index	71 g-index
402 ext. papers	8,803 ext. citations	5.5 avg, IF	6.11 L-index

#	Paper	IF	Citations
301	A flexible capacitive photoreceptor for the biomimetic retina.. *Light: Science and Applications*, **2022**, 11, 3	16.7	8
300	Efficient channel modeling of structured light in turbulence using generative adversarial networks.. *Optics Express*, **2022**, 30, 7238-7252	3.3	2
299	Self-powered weather station for remote areas and difficult-access locations.. *Optics Express*, **2022**, 30, 2668-2679	3.3	2
298	Real-time Optical-Wireless Video Surveillance System for High Visual-fidelity Underwater Monitoring. *IEEE Photonics Journal*, **2022**, 1-1	1.8	5
297	All-inorganic halide-perovskite polymer-fiber-photodetector for high-speed optical wireless communication.. *Optics Express*, **2022**, 30, 9823-9840	3.3	2
296	Boosted ultraviolet photodetection of AlGaN quantum-disk nanowires via rational surface passivation. *Journal Physics D: Applied Physics*, **2022**, 55, 125101	3	2
295	Toward Automatic Subsea Operations Using Real-Time Underwater Optical Wireless Sensor Networks. *IEEE Photonics Journal*, **2022**, 14, 1-8	1.8	3
294	Compact scintillating-fiber/450-nm-laser transceiver for full-duplex underwater wireless optical communication system under turbulence.. *Optics Express*, **2022**, 30, 53-69	3.3	7
293	Simultaneous Lightwave and Power Transfer for Internet of Things Devices. *Energies*, **2022**, 15, 2814	3.1	0
292	Lattice Orientation Heredity in the Transformation of 2D Epitaxial Films. *Advanced Materials*, **2021**, e2105190	24	1
291	Silicon-integrated monocrystalline oxide–nitride heterostructures for deep-ultraviolet optoelectronics. *Optical Materials Express*, **2021**, 11, 4130	2.6	0
290	. *IEEE Open Journal of the Communications Society*, **2021**, 2, 2597-2615	6.7	3
289	A Review of Distributed Fiber--optic Sensing in the Oil and Gas Industry. *Journal of Lightwave Technology*, **2021**, 1-1	4	6
288	The Impact of Vertical Salinity Gradient on Non-Line-of-Sight Underwater Optical Wireless Communication. *IEEE Photonics Journal*, **2021**, 1-1	1.8	5
287	Sustainable and Inexpensive Polydimethylsiloxane Sponges for Daytime Radiative Cooling. *Advanced Science*, **2021**, 8, e2102502	13.6	9
286	Dual-wavelength luminescent fibers receiver for wide field-of-view, Gb/s underwater optical wireless communication. *Optics Express*, **2021**, 29, 38014-38026	3.3	9
285	Engineering Band-Type Alignment in CsPbBr Perovskite-Based Artificial Multiple Quantum Wells. *Advanced Materials*, **2021**, 33, e2005166	24	1

284	InGaN-based nanowires development for energy harvesting and conversion applications. *Journal of Applied Physics*, **2021**, 129, 121103	2.5	3
283	Toward Large-Scale GaO Membranes via Quasi-Van Der Waals Epitaxy on Epitaxial Graphene Layers. *ACS Applied Materials & Interfaces*, **2021**, 13, 13410-13418	9.5	3
282	Colloidal PbS Quantum Dots for Visible-to-Near-Infrared Optical Internet of Things. *IEEE Photonics Journal*, **2021**, 13, 1-11	1.8	2
281	Wide-field-of-view optical detectors using fused fiber-optic tapers. *Optics Letters*, **2021**, 46, 1916-1919	3	9
280	Giant clam inspired high-speed photo-conversion for ultraviolet optical wireless communication. *Optical Materials Express*, **2021**, 11, 1515	2.6	2
279	Heteroepitaxial Ga2O3 on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection. *Advanced Materials Technologies*, **2021**, 6, 2100142	6.8	3
278	Sustained Solar-Powered Electrocatalytic H2 Production by Seawater Splitting Using Two-Dimensional Vanadium Disulfide. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8572-8580	8.3	2
277	Reduction of the beam pointing error for improved free-space optical communication link performance. *IFAC Journal of Systems and Control*, **2021**, 16, 100154	0.9	0
276	Highly Uniform, Self-Assembled AlGaN Nanowires for Self-Powered Solar-Blind Photodetector with Fast-Response Speed and High Responsivity. *Advanced Optical Materials*, **2021**, 9, 2000893	8.1	36
275	Improved H2 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	6.7	5
274	Pt/AlGaN Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. *Nano Letters*, **2021**, 21, 120-129	11.5	55
273	Group-III-nitride and halide-perovskite semiconductor gain media for amplified spontaneous emission and lasing applications. *Journal Physics D: Applied Physics*, **2021**, 54, 143001	3	7
272	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. *Advanced Functional Materials*, **2021**, 31, 2008088	15.6	3
271	Single-Port Superluminescent-Diode Gain-Chip for Tunable Single-Wavelength and Dual-Wavelength Blue-Laser. *IEEE Photonics Journal*, **2021**, 13, 1-11	1.8	0
270	Hybrid concentrated radiative cooling and solar heating in a single system. *Cell Reports Physical Science*, **2021**, 2, 100338	6.1	10
269	Towards Detecting Red Palm Weevil Using Machine Learning and Fiber Optic Distributed Acoustic Sensing. *Sensors*, **2021**, 21,	3.8	5
268	Vapor condensation with daytime radiative cooling. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	19
267	Heteroepitaxial Ga2O3 on Conductive Ceramic Templates: Toward Ultrahigh Gain Deep-Ultraviolet Photodetection (Adv. Mater. Technol. 9/2021). *Advanced Materials Technologies*, **2021**, 6, 2170052	6.8	

266	A CNN-Based Structured Light Communication Scheme for Internet of Underwater Things Applications. *IEEE Internet of Things Journal*, **2020**, 7, 10038-10047	10.7	9
265	7.4-Gbit/s Visible-Light Communication Utilizing Wavelength-Selective Semipolar Micro-Photodetector. *IEEE Photonics Technology Letters*, **2020**, 1-1	2.2	7
264	Optical Properties and First-Principles Study of CHNHPbBr Perovskite Structures. *ACS Omega*, **2020**, 5, 12313-12319	3.9	4
263	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. *IEEE Communications Magazine*, **2020**, 58, 84-89	9.1	12
262	Piezotronic AlGaN nanowire Schottky junctions grown on a metal substrate. *AIP Advances*, **2020**, 10, 055014	1.5	4
261	Iridocytes Mediate Photonic Cooperation Between Giant Clams (Tridacninae) and Their Photosynthetic Symbionts. *Frontiers in Marine Science*, **2020**, 7,	4.5	17
260	Early detection of red palm weevil using distributed optical sensor. *Scientific Reports*, **2020**, 10, 3155	4.9	17
259	Toward Self-Powered Internet of Underwater Things Devices. *IEEE Communications Magazine*, **2020**, 58, 68-73	9.1	24
258	Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *IEEE Photonics Journal*, **2020**, 12, 1-10	1.8	2
257	THz behavior originates from different arrangements of coalescent GaN nanorods grown on Si (111) and Si (100) substrates. *Applied Surface Science*, **2020**, 522, 146422	6.7	3
256	3.8-Gbit/s visible light communication (VLC) based on 443-nm superluminescent diode and bit-loading discrete-multiple-tone (DMT) modulation scheme **2020**,		2
255	Roadmap to free space optics. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, A184	1.7	57
254	Identifying structured light modes in a desert environment using machine learning algorithms. *Optics Express*, **2020**, 28, 9753-9763	3.3	12
253	Gbit/s ultraviolet-C diffuse-line-of-sight communication based on probabilistically shaped DMT and diversity reception. *Optics Express*, **2020**, 28, 9111-9122	3.3	16
252	2.4-Gbps Ultraviolet-C Solar-Blind Communication Based on Probabilistically Shaped DMT Modulation **2020**,		3
251	480-nm distributed-feedback InGaN laser diode for 10.5-Gbit/s visible-light communication. *Optics Letters*, **2020**, 45, 742-745	3	15
250	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	1.1	1
249	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	6.5	3

248	Sensing within the OTDR dead-zone using a two-mode fiber. *Optics Letters*, **2020**, 45, 2969-2972	3	2
247	Nanogap Structures: Large-Scale Sub-1-nm Random Gaps Approaching the Quantum Upper Limit for Quantitative Chemical Sensing (Advanced Optical Materials 24/2020). *Advanced Optical Materials*, **2020**, 8, 2070095	8.1	
246	A Unified Statistical Model for Atmospheric Turbulence-Induced Fading in Orbital Angular Momentum Multiplexed FSO Systems. *IEEE Transactions on Wireless Communications*, **2020**, 19, 888-900	9.6	12
245	Simultaneous Distributed Acoustic and Temperature Sensing Using a Multimode Fiber. *IEEE Journal of Selected Topics in Quantum Electronics*, **2020**, 26, 1-7	3.8	7
244	Non-line-of-sight methodology for high-speed wireless optical communication in highly turbid water. *Optics Communications*, **2020**, 461, 125264	2	19
243	Semipolar ($20overline{21}$) InGaN/GaN micro-photodetector for gigabit-per-second visible light communication. *Applied Physics Express*, **2020**, 13, 014001	2.4	20
242	Time–Energy Quantum Uncertainty: Quantifying the Effectiveness of Surface Defect Passivation Protocols for Low-Dimensional Semiconductors. *ACS Applied Electronic Materials*, **2020**, 2, 409-418	4	2
241	A Review on Practical Considerations and Solutions in Underwater Wireless Optical Communication. *Journal of Lightwave Technology*, **2020**, 38, 421-431	4	41
240	A Review of Using Few-Mode Fibers for Optical Sensing. *IEEE Access*, **2020**, 8, 179592-179605	3.5	7
239	Survey of energy-autonomous solar cell receivers for satellite–air–ground–ocean optical wireless communication. *Progress in Quantum Electronics*, **2020**, 74, 100300	9.1	11
238	Characterization of epitaxial titanium nitride mediated single-crystal nickel oxide grown on MgO-(100) and Si-(100). *AIP Advances*, **2020**, 10, 065318	1.5	2
237	Titanium Carbide MXene Nucleation Layer for Epitaxial Growth of High-Quality GaN Nanowires on Amorphous Substrates. *ACS Nano*, **2020**, 14, 2202-2211	16.7	5
236	Functionalization of Magnetic Nanowires for Active Targeting and Enhanced Cell-Killing Efficacy.. *ACS Applied Bio Materials*, **2020**, 3, 4789-4797	4.1	6
235	Single-Crystalline All-Oxide III–III Heterostructures for Deep-Ultraviolet Photodetection. *ACS Applied Materials & Interfaces*, **2020**,	9.5	8
234	A highly sensitive, large area, and self-powered UV photodetector based on coalesced gallium nitride nanorods/graphene/silicon (111) heterostructure. *Applied Physics Letters*, **2020**, 117, 191103	3.4	12
233	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	9.1	3
232	Large-Scale Sub-1-nm Random Gaps Approaching the Quantum Upper Limit for Quantitative Chemical Sensing. *Advanced Optical Materials*, **2020**, 8, 2001634	8.1	1
231	Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *IEEE Photonics Journal*, **2020**, 12, 1-13	1.8	5

230	Crosstalk Suppression in Structured Light Free-Space Optical Communication. *IEEE Open Journal of the Communications Society*, **2020**, 1, 1623-1631	6.7	3
229	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	9.5	3
228	AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *IEEE Photonics Journal*, **2020**, 12, 1-13	1.8	14
227	Field Demonstrations of Wide-Beam Optical Communications Through Water–Air Interface. *IEEE Access*, **2020**, 8, 160480-160489	3.5	18
226	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 3295-3303	20.1	6
225	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. *Nano Energy*, **2020**, 73, 104801	17.1	39
224	Tunable Violet Laser Diode System for Optical Wireless Communication. *IEEE Photonics Technology Letters*, **2020**, 32, 546-549	2.2	5
223	Deep-Ultraviolet Photodetection Using Single-Crystalline β-Ga2O3/NiO Heterojunctions. *ACS Applied Materials & Interfaces*, **2019**, 11, 35095-35104	9.5	48
222	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. *IEEE Communications Magazine*, **2019**, 57, 65-69	9.1	13
221	Direct Growth of Single Crystalline GaN Nanowires on Indium Tin Oxide-Coated Silica. *Nanoscale Research Letters*, **2019**, 14, 45	5	3
220	Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. *CheM*, **2019**, 5, 706-718	16.2	14
219	Twofold Porosity and Surface Functionalization Effect on Pt-Porous GaN for High-Performance H-Gas Sensors at Room Temperature. *ACS Omega*, **2019**, 4, 1678-1684	3.9	8
218	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	3.8	25
217	Communicating Using Spatial Mode Multiplexing: Potentials, Challenges, and Perspectives. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 3175-3203	37.1	83
216	Narrow-line InGaN/GaN green laser diode with high-order distributed-feedback surface grating. *Applied Physics Express*, **2019**, 12, 042007	2.4	16
215	Perovskite-Based Artificial Multiple Quantum Wells. *Nano Letters*, **2019**, 19, 3535-3542	11.5	17
214	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. *Nature Sustainability*, **2019**, 2, 718-724	22.1	162
213	OAM Mode Selection and Space–Time Coding for Atmospheric Turbulence Mitigation in FSO Communication. *IEEE Access*, **2019**, 7, 88049-88057	3.5	15

212	. *Journal of Lightwave Technology*, **2019**, 37, 5083-5090	4	14
211	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-7	3.8	4
210	Catalyst-Free Vertical ZnO-Nanotube Array Grown on p-GaN for UV-Light-Emitting Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 27989-27996	9.5	13
209	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. *Light: Science and Applications*, **2019**, 8, 94	16.7	125
208	Growth of Ordered Iron Oxide Nanowires for Photo-electrochemical Water Oxidation. *ACS Applied Energy Materials*, **2019**, 2, 8473-8480	6.1	4
207	Iron-Based Core-Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 43976-43988	9.5	19
206	Investigating the Performance of a Few-Mode Fiber for Distributed Acoustic Sensing. *IEEE Photonics Journal*, **2019**, 11, 1-10	1.8	5
205	Unambiguously Enhanced Ultraviolet Luminescence of AlGaN Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. *Advanced Functional Materials*, **2019**, 29, 1905445	15.6	85
204	Tunable Dual-Wavelength Self-injection Locked InGaN/GaN Green Laser Diode. *IEEE Access*, **2019**, 7, 143324-143330	3.5	1
203	Spectrally Resolved Characterization of Thermally Induced Underwater Turbulence Using a Broadband White-Light Interrogator. *IEEE Photonics Journal*, **2019**, 11, 1-9	1.8	4
202	Modeling and Experimental Study of The Vibration Effects in Urban Free-Space Optical Communication Systems. *IEEE Photonics Journal*, **2019**, 11, 1-13	1.8	2
201	Laser-based visible light communications and underwater wireless optical communications: a device perspective **2019**,		8
200	Functional integrity and stable high-temperature operation of planarized ultraviolet-A AlxGa1−xN/AlyGa1−yN multiple-quantum-disk nanowire LEDs with charge-conduction promoting interlayer **2019**,		2
199	Accelerating vapor condensation with daytime radiative cooling **2019**,		8
198	Normalized differential method for improving the signal-to-noise ratio of a distributed acoustic sensor. *Applied Optics*, **2019**, 58, 4933-4938	1.7	14
197	All-day radiative cooling using beam-controlled architectures **2019**,		1
196	Producing OAM Information Carriers using Micro-structured Spiral Phase Plates **2019**,		1
195	Electrical characterization of solar-blind deep-ultraviolet (Al0.28Ga0.72)2O3 Schottky photodetectors grown on silicon by pulsed laser deposition **2019**,		2

194	Improved solar hydrogen production by engineered doping of InGaN/GaN axial heterojunctions. *Optics Express*, **2019**, 27, A81-A91	3.3	12
193	Gallium Phosphide photoanode coated with TiO and CoO for stable photoelectrochemical water oxidation. *Optics Express*, **2019**, 27, A364-A371	3.3	12
192	On the realization of across wavy water-air-interface diffuse-line-of-sight communication based on an ultraviolet emitter. *Optics Express*, **2019**, 27, 19635-19649	3.3	26
191	Ultraviolet-to-blue color-converting scintillating-fibers photoreceiver for 375-nm laser-based underwater wireless optical communication. *Optics Express*, **2019**, 27, 30450-30461	3.3	21
190	Toward self-powered and reliable visible light communication using amorphous silicon thin-film solar cells. *Optics Express*, **2019**, 27, 34542-34551	3.3	17
189	Towards Early Detection of Red Palm Weevil Using Optical Fiber Distributed Acoustic Sensor **2019**,		3
188	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	2.6	10
187	The effect of turbulence on NLOS underwater wireless optical communication channels [Invited]. *Chinese Optics Letters*, **2019**, 17, 100013	2.2	11
186	Visible diode lasers for high bitrate underwater wireless optical communications **2019**,		1
185	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC **2019**,		1
184	Study on laser-based white light sources **2019**,		2
183	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. *Journal of Physical Chemistry C*, **2019**, 123, 5900-5906	3.8	10
182	On the Reciprocity of Underwater Turbulent Channels. *IEEE Photonics Journal*, **2019**, 11, 1-9	1.8	7
181	Impact of Wavelength on the Path-loss of Turbid Underwater Communication Systems **2019**,		1
180	Deep-ultraviolet integrated photonic and optoelectronic devices: A prospect of the hybridization of group III□itrides, III□xides, and two-dimensional materials. *Journal of Semiconductors*, **2019**, 40, 121801	2.3	17
179	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr3 Perovskite Nanocrystals on Silicon Platform **2019**,		1
178	Unified Statistical Channel Model for Turbulence-Induced Fading in Underwater Wireless Optical Communication Systems. *IEEE Transactions on Communications*, **2019**, 67, 2893-2907	6.9	68
177	Ultraviolet-A LED Based on Quantum-Disks-In-AlGaN-Nanowires□Optimization and Device Reliability. *IEEE Photonics Journal*, **2018**, 10, 1-11	1.8	8

176	Multi-wavelength emission from a single InGaN/GaN nanorod analyzed by cathodoluminescence hyperspectral imaging. *Scientific Reports*, **2018**, 8, 1742	4.9	6
175	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. *ACS Energy Letters*, **2018**, 3, 476-481	20.1	11
174	Surface-Passivated AlGaN Nanowires for Enhanced Luminescence of Ultraviolet Light Emitting Diodes. *ACS Photonics*, **2018**, 5, 964-970	6.3	54
173	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	13	30
172	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, 105702	2.5	18
171	Visible light communication using DC-biased optical filter bank multi-carrier modulation **2018**,		9
170	Worst-case residual clipping noise power model for bit loading in LACO-OFDM **2018**,		6
169	High Reflectivity YDH/SiO2 Distributed Bragg Reflector for UV-C Wavelength Regime. *IEEE Photonics Journal*, **2018**, 10, 1-8	1.8	9
168	Flexible InGaN nanowire membranes for enhanced solar water splitting. *Optics Express*, **2018**, 26, A640-A650	3.3	11
167	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. *Optics Express*, **2018**, 26, 12870-12877	3.3	31
166	3.2 Gigabit-per-second Visible Light Communication Link with InGaN/GaN MQW Micro-photodetector. *Optics Express*, **2018**, 26, 3037-3045	3.3	39
165	Free-space optical channel characterization and experimental validation in a coastal environment. *Optics Express*, **2018**, 26, 6614-6628	3.3	22
164	Semipolar InGaN quantum-well laser diode with integrated amplifier for visible light communications. *Optics Express*, **2018**, 26, A219-A226	3.3	19
163	Tapering-induced enhancement of light extraction efficiency of nanowire deep ultraviolet LED by theoretical simulations. *Photonics Research*, **2018**, 6, 457	6	24
162	III-nitride nanowires on unconventional substrates: From materials to optoelectronic device applications. *Progress in Quantum Electronics*, **2018**, 61, 1-31	9.1	45
161	Diode junction temperature in ultraviolet AlGaN quantum-disks-in-nanowires. *Journal of Applied Physics*, **2018**, 124, 015702	2.5	7
160	Light based underwater wireless communications. *Japanese Journal of Applied Physics*, **2018**, 57, 08PA06	1.4	47
159	Direct Growth of III-Nitride Nanowire-Based Yellow Light-Emitting Diode on Amorphous Quartz Using Thin Ti Interlayer. *Nanoscale Research Letters*, **2018**, 13, 41	5	13

158	Enhanced photoelectrochemical performance of InGaN-based nanowire photoanodes by optimizing the ionized dopant concentration. *Journal of Applied Physics*, **2018**, 124, 083105	2.5	15
157	Graded-Index Separate Confinement Heterostructure AlGaN Nanowires: Toward Ultraviolet Laser Diodes Implementation. *ACS Photonics*, **2018**, 5, 3305-3314	6.3	37
156	Review of nanophotonics approaches using nanostructures and nanofabrication for III-nitrides ultraviolet-photonic devices. *Journal of Nanophotonics*, **2018**, 12, 1	1.1	28
155	Unleashing the potential of molecular beam epitaxy grown AlGaN-based ultraviolet-spectrum nanowires devices. *Journal of Nanophotonics*, **2018**, 12, 1	1.1	19
154	Semipolar GaN-based laser diodes for Gbit/s white lighting communication: devices to systems **2018**,		9
153	High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. *Optics Express*, **2018**, 26, 26355-26364	3.3	31
152	Wavy Architecture Thin-Film Transistor for Ultrahigh Resolution Flexible Displays. *Small*, **2018**, 14, 1703200	11	8
151	High Power GaN-Based Blue Superluminescent Diode Exceeding 450 mW **2018**,		1
150	Observation of piezotronic and piezo-phototronic effects in n-InGaN nanowires/Ti grown by molecular beam epitaxy. *Nano Energy*, **2018**, 54, 264-271	17.1	17
149	Enhanced performance of 450 nm GaN laser diodes with an optical feedback for high bit-rate visible light communication **2018**,		1
148	Ultrathin-Film Titania Photocatalyst on Nanocavity for CO Reduction with Boosted Catalytic Efficiencies. *Global Challenges*, **2018**, 2, 1800032	4.3	5
147	Tunable self-injection locked green laser diode. *Optics Letters*, **2018**, 43, 4931-4934	3	8
146	Quantified hole concentration in AlGaN nanowires for high-performance ultraviolet emitters. *Nanoscale*, **2018**, 10, 15980-15988	7.7	14
145	Investigation of Self-Injection Locked Visible Laser Diodes for High Bit-Rate Visible Light Communication. *IEEE Photonics Journal*, **2018**, 10, 1-11	1.8	18
144	Impact of N-plasma and Ga-irradiation on MoS2 layer in molecular beam epitaxy. *Applied Physics Letters*, **2017**, 110, 012101	3.4	34
143	Double Charged Surface Layers in Lead Halide Perovskite Crystals. *Nano Letters*, **2017**, 17, 2021-2027	11.5	52
142	Band Alignment at GaN/Single-Layer WSe Interface. *ACS Applied Materials & Interfaces*, **2017**, 9, 9110-9117	9.5	47
141	Health-friendly high-quality white light using violet-green-red laser and InGaN nanowires-based true yellow nanowires light-emitting diodes **2017**,		3

140	Semipolar InGaN-based superluminescent diodes for solid-state lighting and visible light communications **2017**,		6
139	Semipolar IIIBitride quantum well waveguide photodetector integrated with laser diode for on-chip photonic system. *Applied Physics Express*, **2017**, 10, 042201	2.4	24
138	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. *Nano Letters*, **2017**, 17, 1520-1528	11.5	129
137	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	17.1	43
136	Photoinduced entropy of InGaN/GaN p-i-n double-heterostructure nanowires. *Applied Physics Letters*, **2017**, 110, 161110	3.4	35
135	A Novel Mirror-Aided Non-Imaging Receiver for Indoor $2times 2$ MIMO-Visible Light Communication Systems. *IEEE Transactions on Wireless Communications*, **2017**, 16, 5630-5643	9.6	11
134	InGaN/GaN nanowires epitaxy on large-area MoS2 for high-performance light-emitters. *RSC Advances*, **2017**, 7, 26665-26672	3.7	24
133	Performance Evaluation of Underwater Wireless Optical Communications Links in the Presence of Different Air Bubble Populations. *IEEE Photonics Journal*, **2017**, 9, 1-9	1.8	58
132	Temperature-Induced Lattice Relaxation of Perovskite Crystal Enhances Optoelectronic Properties and Solar Cell Performance. *Journal of Physical Chemistry Letters*, **2017**, 8, 137-143	6.4	32
131	Type-I band alignment at MoS2/In0.15Al0.85N lattice matched heterojunction and realization of MoS2 quantum well. *Applied Physics Letters*, **2017**, 111, 092104	3.4	22
130	Spatially resolved investigation of competing nanocluster emission in quantum-disks-in-nanowires structure characterized by nanoscale cathodoluminescence. *Journal of Nanophotonics*, **2017**, 11, 026015	1.1	3
129	Real-Time Video Transmission Over Different Underwater Wireless Optical Channels Using a Directly Modulated 520 nm Laser Diode. *Journal of Optical Communications and Networking*, **2017**, 9, 826	4.1	39
128	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. *Nano Letters*, **2017**, 17, 4759-4767	11.5	202
127	Nanomembrane-Based, Thermal-Transport Biosensor for Living Cells. *Small*, **2017**, 13, 1603080	11	15
126	Efficient Weibull channel model for salinity induced turbulent underwater wireless optical communications **2017**,		22
125	Bandwidth enhancement of wireless optical communication link using a near-infrared laser over turbid underwater channel **2017**,		8
124	Performance evaluation of underwater wireless optical communications links in the presence of different air bubble populations **2017**,		1
123	Underwater wireless optical communications: From system-level demonstrations to channel modelling **2017**,		3

122	A New Simple Model for Underwater Wireless Optical Channels in the Presence of Air Bubbles **2017** ,		22
121	Free-space optical channel characterization in a coastal environment. *Journal of Communications and Information Networks*, **2017**, 2, 100-106		6
120	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	1.8	13
119	Integrated photonic platform based on semipolar InGaN/GaN multiple section laser diodes **2017**,		2
118	Thermodynamic photoinduced disorder in AlGaN nanowires. *AIP Advances*, **2017**, 7, 125113	1.5	10
117	Going beyond 10-meter, Gbit/s underwater optical wireless communication links based on visible lasers **2017**,		7
116	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS_2. *Optical Materials Express*, **2017**, 7, 3697	2.6	8
115	Droop-free AlxGa1-xN/AlyGa1-yN quantum-disks-in-nanowires ultraviolet LED emitting at 337 nm on metal/silicon substrates. *Optics Express*, **2017**, 25, 1381-1390	3.3	54
114	Gigabit-per-second white light-based visible light communication using near-ultraviolet laser diode and red-, green-, and blue-emitting phosphors. *Optics Express*, **2017**, 25, 17480-17487	3.3	55
113	71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. *Optics Express*, **2017**, 25, 23267-23274	3.3	37
112	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. *Optics Letters*, **2017**, 42, 3618-3621	3	17
111	Highly uniform ultraviolet-A quantum-confined AlGaN nanowire LEDs on metal/silicon with a TaN interlayer. *Optical Materials Express*, **2017**, 7, 4214	2.6	21
110	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. *Optics Letters*, **2017**, 42, 2455-2458	3	61
109	Design and Deployment of Mobile FSO Communication System **2017**,		2
108	Near-Infrared Wireless Optical Communication with Particulates In-Suspension over the Underwater Channel **2017**,		3
107	Ultrabroad linewidth orange-emitting nanowires LED for high CRI laser-based white lighting and gigahertz communications. *Optics Express*, **2016**, 24, 19228-36	3.3	19
106	Effect of annealing InGaP/InAlGaP laser structure at 950□C on laser characteristics. *Journal of Nanophotonics*, **2016**, 10, 036004	1.1	2
105	True Yellow Light-Emitting Diodes as Phosphor for Tunable Color-Rendering Index Laser-Based White Light. *ACS Photonics*, **2016**, 3, 2089-2095	6.3	21

104	Surface Restructuring of Hybrid Perovskite Crystals. *ACS Energy Letters*, **2016**, 1, 1119-1126	20.1	115
103	Growth and development of Arabidopsis thaliana under single-wavelength red and blue laser light. *Scientific Reports*, **2016**, 6, 33885	4.9	21
102	GHz modulation enabled using large extinction ratio waveguide-modulator integrated with 404 nm GaN laser diode **2016**,		2
101	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	11	1
100	Real-Space Visualization of Energy Loss and Carrier Diffusion in a Semiconductor Nanowire Array Using 4D Electron Microscopy. *Advanced Materials*, **2016**, 28, 5106-11	24	23
99	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. *Nanoscale*, **2016**, 8, 12294-306	7.7	95
98	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. *ACS Photonics*, **2016**, 3, 1150-1156	6.3	171
97	First demonstration of orange-yellow light emitter devices in InGaP/InAlGaP laser structure using strain-induced quantum well intermixing technique **2016**,		4
96	High-Modulation-Efficiency, Integrated Waveguide Modulator Laser Diode at 448 nm. *ACS Photonics*, **2016**, 3, 262-268	6.3	59
95	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, 137-42	6.4	55
94	Facile Formation of High-Quality InGaN/GaN Quantum-Disks-in-Nanowires on Bulk-Metal Substrates for High-Power Light-Emitters. *Nano Letters*, **2016**, 16, 1056-63	11.5	73
93	GHz modulation bandwidth from single-longitudinal mode violet-blue VCSEL using nonpolar InGaN/GaN QWs **2016**,		3
92	Wireless optical transmission of 450 nm, 3.2 Gbit/s 16-QAM-OFDM signals over 6.6 m underwater channel **2016**,		8
91	High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. *Optics Express*, **2016**, 24, 20281-6	3.3	41
90	20-meter underwater wireless optical communication link with 1.5 Gbps data rate. *Optics Express*, **2016**, 24, 25502-25509	3.3	145
89	On the optical and microstrain analysis of graded InGaN/GaN MQWs based on plasma assisted molecular beam epitaxy. *Optical Materials Express*, **2016**, 6, 2052	2.6	11
88	Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy. *Small*, **2016**, 12, 2313-20	11	34
87	Droop-Free, Reliable, and High-Power InGaN/GaN Nanowire Light-Emitting Diodes for Monolithic Metal-Optoelectronics. *Nano Letters*, **2016**, 16, 4616-23	11.5	81

86	Carbon nanotube-graphene composite film as transparent conductive electrode for GaN-based light-emitting diodes. *Applied Physics Letters*, **2016**, 109, 081902	3.4	12
85	Determination of band offsets at GaN/single-layer MoS2 heterojunction. *Applied Physics Letters*, **2016**, 109, 032104	3.4	52
84	InGaN/GaN nanowire LEDs and lasers **2016**,		2
83	High gain semiconductor optical amplifier Laser diode at visible wavelength **2016**,		3
82	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, 045701	2.5	14
81	High-brightness semipolar (2021) blue InGaN/GaN superluminescent diodes for droop-free solid-state lighting and visible-light communications. *Optics Letters*, **2016**, 41, 2608-11	3	45
80	Photon management of GaN-based optoelectronic devices via nanoscaled phenomena. *Progress in Quantum Electronics*, **2016**, 49, 1-25	9.1	23
79	Optical constants of CH3NH3PbBr3 perovskite thin films measured by spectroscopic ellipsometry. *Optics Express*, **2016**, 24, 16586-94	3.3	76
78	An enhanced surface passivation effect in InGaN/GaN disk-in-nanowire light emitting diodes for mitigating Shockley-Read-Hall recombination. *Nanoscale*, **2015**, 7, 16658-65	7.7	68
77	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. *Optics Express*, **2015**, 23, 18746-53	3.3	104
76	4.8 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. *Optics Express*, **2015**, 23, 23302-9	3.3	189
75	Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. *Optics Express*, **2015**, 23, 7991-8	3.3	13
74	2.3 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. *Optics Express*, **2015**, 23, 20743-8	3.3	130
73	InAs/GaAs quantum-dot intermixing: comparison of various dielectric encapsulants. *Optical Engineering*, **2015**, 54, 107107	1.1	1
72	Small signal modulation characteristics of red-emitting (610 nm) III-nitride nanowire array lasers on (001) silicon. *Applied Physics Letters*, **2015**, 106, 071108	3.4	25
71	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, 051207	1.3	37
70	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, 5027-33	6.4	398
69	2 Gbit/s data transmission from an unfiltered laser-based phosphor-converted white lighting communication system. *Optics Express*, **2015**, 23, 29779-87	3.3	90

68	Phosphorous Diffuser Diverged Blue Laser Diode for Indoor Lighting and Communication. *Scientific Reports*, **2015**, 5, 18690	4.9	83
67	III-nitride disk-in-nanowire 1.2 Ēh monolithic diode laser on (001)silicon. *Applied Physics Letters*, **2015**, 107, 191107	3.4	33
66	Achieving Uniform Carrier Distribution in MBE-Grown Compositionally Graded InGaN Multiple-Quantum-Well LEDs. *IEEE Photonics Journal*, **2015**, 7, 1-9	1.8	13
65	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, 33656-66	3.3	66
64	**2015**,		1
63	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, 06F701	1.3	4
62	Exfoliation of Threading Dislocation-Free, Single-Crystalline, Ultrathin Gallium Nitride Nanomembranes. *Advanced Functional Materials*, **2014**, 24, 2305-2311	15.6	30
61	High Performance InAs/${rm In}_{0.53}{rm Ga}_{0.23}{rm Al}_{0.24}{rm As}$/InP Quantum Dot 1.55 $mu{rm m}$ Tunnel Injection Laser. *IEEE Journal of Quantum Electronics*, **2014**, 50, 7-14	2	48
60	Investigation of Chirped InAs/InGaAlAs/InP Quantum Dash Lasers as Broadband Emitters. *IEEE Journal of Quantum Electronics*, **2014**, 50, 51-61	2	15
59	Nanomembranes: Exfoliation of Threading Dislocation-Free, Single-Crystalline, Ultrathin Gallium Nitride Nanomembranes (Adv. Funct. Mater. 16/2014). *Advanced Functional Materials*, **2014**, 24, 2412-2412	15.6	1
58	Enhanced extraordinary optical transmission (EOT) through arrays of bridged nanohole pairs and their sensing applications. *Nanoscale*, **2014**, 6, 7917-23	7.7	26
57	Monolithic electrically injected nanowire array edge-emitting laser on (001) silicon. *Nano Letters*, **2014**, 14, 4535-41	11.5	127
56	Enhancing Carrier Injection Using Graded Superlattice Electron Blocking Layer for UVB Light-Emitting Diodes. *IEEE Photonics Journal*, **2014**, 6, 1-12	1.8	4
55	Red to Near-Infrared Emission from InGaN/GaN Quantum-Disks-in-Nanowires LED **2014**,		2
54	Self-assembled InAs/InP quantum dots and quantum dashes: Material structures and devices. *Progress in Quantum Electronics*, **2014**, 38, 237-313	9.1	47
53	The formation of hexagonal-shaped InGaN-nanodisk on GaN-nanowire observed in plasma source molecular beam epitaxy **2014**,		1
52	On the phenomenon of large photoluminescence red shift in GaN nanoparticles. *Nanoscale Research Letters*, **2013**, 8, 342	5	31
51	**2013**,		5

50	**2013**,		5
49	A Simple FDTD Algorithm for Simulating EM-Wave Propagation in General Dispersive Anisotropic Material. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 1321-1326	4.9	22
48	A possible approach on optical analogues of gravitational attractors. *Optics Express*, **2013**, 21, 8298-310	3.3	2
47	Characteristics of AlN/GaN nanowire Bragg mirror grown on (001) silicon by molecular beam epitaxy. *Applied Physics Letters*, **2013**, 103, 181102	3.4	2
46	Electron irradiation induced reduction of the permittivity in chalcogenide glass (As2S3) thin film. *Journal of Applied Physics*, **2013**, 113, 044116	2.5	10
45	Spectral Analysis of Quantum-Dash Lasers: Effect of Inhomogeneous Broadening of the Active-Gain Region. *IEEE Journal of Quantum Electronics*, **2012**, 48, 608-615	2	6
44	Generation of J0-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, 1252-8	1.8	3
43	Reduced thermal quenching in indium-rich self-organized InGaN/GaN quantum dots. *Journal of Applied Physics*, **2012**, 112, 063506	2.5	2
42	. *IEEE Photonics Technology Letters*, **2012**, 24, 724-726	2.2	32
41	Two-step controllable electrochemical etching of tungsten scanning probe microscopy tips. *Review of Scientific Instruments*, **2012**, 83, 063708	1.7	31
40	Room temperature strong coupling effects from single ZnO nanowire microcavity. *Optics Express*, **2012**, 20, 11830-7	3.3	21
39	Thermal Annealing induced relaxation of compressive strain in porous GaN structures **2012**,		3
38	InGaN/GaN disk-in-nanowire white light emitting diodes on (001) silicon. *Applied Physics Letters*, **2011**, 98, 193102	3.4	117
37	Intrinsic Dynamics of Quantum-Dash Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 1167-1174	3.8	6
36	Effect of active medium inhomogeneity on lasing characteristics of InAs/InP quantum-dash lasers **2010**,		1
35	Fundamental and Dynamic Properties of Intermixed InGaAs-InGaAsP Quantum-Well Lasers. *IEEE Journal of Quantum Electronics*, **2010**, 46, 1368-1374	2	2
34	Effect of the interface glass on electrical performance of screen printed Ag thick-film contacts of Si solar cells. *Thin Solid Films*, **2010**, 518, e111-e113	2.2	15
33	Growth of pattern-free InN micropyramids by metalorganic chemical vapor deposition. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1895-1899	1.6	4

32	Multi-axis micromirror for optical coherence tomography. *Procedia Chemistry*, **2009**, 1, 1147-1150		1
31	The Dynamic Characteristics and Linewidth Enhancement Factor of Quasi-Supercontinuum Self-Assembled Quantum Dot Lasers. *IEEE Journal of Quantum Electronics*, **2009**, 45, 1177-1182	2	2
30	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 1230-1238	3.8	46
29	Quantum Dash Intermixing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 1239-1249	3.8	21
28	Sputtered SiO2 Induced Atomic Interdiffusion in Semiconductor Nano Heterostructures. *Advanced Materials Research*, **2007**, 31, 33-35	0.5	
27	Nano-Scale Bandgap Engineering Using Nitrogen Implantation: Quantum-Well, Quantum-Dash and Quantum-Dot Nanostructures. *Advanced Materials Research*, **2007**, 31, 182-184	0.5	
26	Broadband Emission in InAs/InGaAlAs Quantum-Dash-in-Well Laser. *Advanced Materials Research*, **2007**, 31, 173-175	0.5	
25	Investigation of carrier dynamics on InAs quantum dots embedded in InGaAs□GaAs quantum wells based on time-resolved pump and probe differential photoluminescence. *Applied Physics Letters*, **2006**, 89, 181924	3.4	24
24	Superluminescent diodes using quantum dots superlattice. *Journal of Crystal Growth*, **2006**, 288, 153-156	1.6	14
23	Defect Annealing of InAs□InAlGaAs Quantum-Dash-in-Asymmetric-Well Laser. *IEEE Photonics Technology Letters*, **2006**, 18, 2329-2331	2.2	18
22	Experimental and theoretical study of multiple cations intermixing in InP-based quantum dot-in-well structure **2006**, 6129, 11		
21	Spatial Bandgap Tuning in Long Wavelength InAs Quantum Dots-in-Well Laser Structure. *Materials Research Society Symposia Proceedings*, **2005**, 891, 1		
20	Multiple-wavelength integration in InGaAs-InGaAsP structures using pulsed laser irradiation-induced quantum-well intermixing. *IEEE Journal of Quantum Electronics*, **2004**, 40, 481-490	2	19
19	Generation of Multiple Energy Bandgaps Using a Gray Mask Process and Quantum Well Intermixing. *Japanese Journal of Applied Physics*, **2002**, 41, 1080-1084	1.4	12
18	Through wafer via hole by reactive ion etching of GaAs **2002**,		2
17	Multiple-channel InGaAs/InGaAsP electro-absorption intensity modulator fabricated using low-energy-phosphorus-ion-implantation-induced intermixing **2000**, 4087, 490		1
16	Improvement of organic light-emitting diodes performance by the insertion of a Si3N4 layer. *Thin Solid Films*, **2000**, 363, 25-28	2.2	57
15	Embossed Bragg Gratings Based on Organically Modified Silane Waveguides in InP. *Applied Optics*, **2000**, 39, 4942-5	1.7	4

14	Development of a laser holographic interference lithography system **1999**,		2
13	Effect of etch pit density of InP substrate on the stability of InGaAs/InGaAsP quantum well laser materials **1999**, 3896, 207		2
12	Deposition of potassium lithium niobate films by sol-gel method **1999**,		2
11	Quantum well intermixing of GaAs/AlGaAs laser structure using one-step rapid thermal oxidation of AlAs **1999**, 3896, 184		
10	Selective quantum-well intermixing in GaAs-AlGaAs structures using impurity-free vacancy diffusion. *IEEE Journal of Quantum Electronics*, **1997**, 33, 1784-1793	2	104
9	GaAs/AlGaAs photonic integrated circuits fabricated using impurity-free vacancy disordering **1995**, 2401, 74		10
8	Influences of ALD Al2O3 on the surface band-bending of c-plane, Ga-face GaN. *Japanese Journal of Applied Physics*,	1.4	4
7	Coupling Plasmonic Pt Nanoparticles with AlGaN Nanostructures for Enhanced Broadband Photoelectrochemical-Detection Applications. *ACS Applied Nano Materials*,	5.6	6
6	Photovoltage-Competing Dynamics in Photoelectrochemical Devices: Achieving Self-Powered Spectrally Distinctive Photodetection. *Advanced Functional Materials*,2104515	15.6	8
5	Demonstration of Photoelectrochemical-Type Photodetectors Using Seawater as Electrolyte for Portable and Wireless Optical Communication. *Advanced Optical Materials*,2102839	8.1	8
4	Theory and Practice of Orbital Angular Momentum and Beyond1-32		
3	Optical Wavefront Detection: A Beginner Tutorial1-21		
2	Visible-Light Laser Diodes and Superluminescent Diodes: Characteristics and Applications1-17		0
1	Harvesting Electricity by Harnessing Nature: Bioelectricity, Triboelectricity, and Method of Storage1-25		