Boon S Ooi

List of Publications by Citations

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	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
300	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. *Nano Letters*, **2017**, 17, 4759-4767	11.5	202
299	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
298	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. *ACS Photonics*, **2016**, 3, 1150-1156	6.3	171
297	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. *Nature Sustainability*, **2019**, 2, 718-724	22.1	162
296	20-meter underwater wireless optical communication link with 1.5 Gbps data rate. *Optics Express*, **2016**, 24, 25502-25509	3.3	145
295	2.3 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. *Optics Express*, **2015**, 23, 20743-8	3.3	130
294	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. *Nano Letters*, **2017**, 17, 1520-1528	11.5	129
293	Monolithic electrically injected nanowire array edge-emitting laser on (001) silicon. *Nano Letters*, **2014**, 14, 4535-41	11.5	127
292	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
291	InGaN/GaN disk-in-nanowire white light emitting diodes on (001) silicon. *Applied Physics Letters*, **2011**, 98, 193102	3.4	117
290	Surface Restructuring of Hybrid Perovskite Crystals. *ACS Energy Letters*, **2016**, 1, 1119-1126	20.1	115
289	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. *Optics Express*, **2015**, 23, 18746-53	3.3	104
288	Selective quantum-well intermixing in GaAs-AlGaAs structures using impurity-free vacancy diffusion. *IEEE Journal of Quantum Electronics*, **1997**, 33, 1784-1793	2	104
287	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. *Nanoscale*, **2016**, 8, 12294-306	7.7	95
286	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
285	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

284	Communicating Using Spatial Mode Multiplexing: Potentials, Challenges, and Perspectives. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 3175-3203	37.1	83
283	Phosphorous Diffuser Diverged Blue Laser Diode for Indoor Lighting and Communication. *Scientific Reports*, **2015**, 5, 18690	4.9	83
282	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
281	Optical constants of CH3NH3PbBr3 perovskite thin films measured by spectroscopic ellipsometry. *Optics Express*, **2016**, 24, 16586-94	3.3	76
280	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
279	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
278	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
277	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
276	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. *Optics Letters*, **2017**, 42, 2455-2458	3	61
275	High-Modulation-Efficiency, Integrated Waveguide Modulator–Laser Diode at 448 nm. *ACS Photonics*, **2016**, 3, 262-268	6.3	59
274	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
273	Improvement of organic light-emitting diodes performance by the insertion of a Si3N4 layer. *Thin Solid Films*, **2000**, 363, 25-28	2.2	57
272	Roadmap to free space optics. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, A184	1.7	57
271	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
270	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
269	Pt/AlGaN Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. *Nano Letters*, **2021**, 21, 120-129	11.5	55
268	Surface-Passivated AlGaN Nanowires for Enhanced Luminescence of Ultraviolet Light Emitting Diodes. *ACS Photonics*, **2018**, 5, 964-970	6.3	54
267	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

266	Double Charged Surface Layers in Lead Halide Perovskite Crystals. *Nano Letters*, **2017**, 17, 2021-2027	11.5	52
265	Determination of band offsets at GaN/single-layer MoS2 heterojunction. *Applied Physics Letters*, **2016**, 109, 032104	3.4	52
264	Deep-Ultraviolet Photodetection Using Single-Crystalline □GaO/NiO Heterojunctions. *ACS Applied Materials & Interfaces*, **2019**, 11, 35095-35104	9.5	48
263	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
262	Band Alignment at GaN/Single-Layer WSe Interface. *ACS Applied Materials & Interfaces*, **2017**, 9, 9110-9117	9.5	47
261	Light based underwater wireless communications. *Japanese Journal of Applied Physics*, **2018**, 57, 08PA06	1.4	47
260	Self-assembled InAs/InP quantum dots and quantum dashes: Material structures and devices. *Progress in Quantum Electronics*, **2014**, 38, 237-313	9.1	47
259	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 1230-1238	3.8	46
258	III-nitride nanowires on unconventional substrates: From materials to optoelectronic device applications. *Progress in Quantum Electronics*, **2018**, 61, 1-31	9.1	45
257	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
256	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
255	A Review on Practical Considerations and Solutions in Underwater Wireless Optical Communication. *Journal of Lightwave Technology*, **2020**, 38, 421-431	4	41
254	High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. *Optics Express*, **2016**, 24, 20281-6	3.3	41
253	3.2 Gigabit-per-second Visible Light Communication Link with InGaN/GaN MQW Micro-photodetector. *Optics Express*, **2018**, 26, 3037-3045	3.3	39
252	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
251	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
250	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
249	Graded-Index Separate Confinement Heterostructure AlGaN Nanowires: Toward Ultraviolet Laser Diodes Implementation. *ACS Photonics*, **2018**, 5, 3305-3314	6.3	37

248	71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. *Optics Express*, **2017**, 25, 23267-23274	3.3	37
247	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
246	Photoinduced entropy of InGaN/GaN p-i-n double-heterostructure nanowires. *Applied Physics Letters*, **2017**, 110, 161110	3.4	35
245	Impact of N-plasma and Ga-irradiation on MoS2 layer in molecular beam epitaxy. *Applied Physics Letters*, **2017**, 110, 012101	3.4	34
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243	III-nitride disk-in-nanowire 1.2 Ħn monolithic diode laser on (001)silicon. *Applied Physics Letters*, **2015**, 107, 191107	3.4	33
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240	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. *Optics Express*, **2018**, 26, 12870-12877	3.3	31
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237	High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. *Optics Express*, **2018**, 26, 26355-26364	3.3	31
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233	Enhanced extraordinary optical transmission (EOT) through arrays of bridged nanohole pairs and their sensing applications. *Nanoscale*, **2014**, 6, 7917-23	7.7	26
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228	InGaN/GaN nanowires epitaxy on large-area MoS2 for high-performance light-emitters. *RSC Advances*, **2017**, 7, 26665-26672	3.7	24
227	Toward Self-Powered Internet of Underwater Things Devices. *IEEE Communications Magazine*, **2020**, 58, 68-73	9.1	24
226	Tapering-induced enhancement of light extraction efficiency of nanowire deep ultraviolet LED by theoretical simulations. *Photonics Research*, **2018**, 6, 457	6	24
225	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
224	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
223	Photon management of GaN-based optoelectronic devices via nanoscaled phenomena. *Progress in Quantum Electronics*, **2016**, 49, 1-25	9.1	23
222	Free-space optical channel characterization and experimental validation in a coastal environment. *Optics Express*, **2018**, 26, 6614-6628	3.3	22
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217	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
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214	Room temperature strong coupling effects from single ZnO nanowire microcavity. *Optics Express*, **2012**, 20, 11830-7	3.3	21
213	Quantum Dash Intermixing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 1239-1249	3.8	21

212	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
211	Semipolar ($20overline{21}$) InGaN/GaN micro-photodetector for gigabit-per-second visible light communication. *Applied Physics Express*, **2020**, 13, 014001	2.4	20
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200	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
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198	Iridocytes Mediate Photonic Cooperation Between Giant Clams (Tridacninae) and Their Photosynthetic Symbionts. *Frontiers in Marine Science*, **2020**, 7,	4.5	17
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196	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. *Optics Letters*, **2017**, 42, 3618-3621	3	17
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180	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
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176	Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. *Optics Express*, **2015**, 23, 7991-8	3.3	13
175	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
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166	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
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149	High Reflectivity YDH/SiO2 Distributed Bragg Reflector for UV-C Wavelength Regime. *IEEE Photonics Journal*, **2018**, 10, 1-8	1.8	9
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141	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS_2. *Optical Materials Express*, **2017**, 7, 3697	2.6	8

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