

Chao Shen

List of Publications by Year in descending order

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74
papers

2,324
citations

236833

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289141

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74
docs citations

74
times ranked

2933
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | GaN-Based Micro-Light-Emitting Diode Driven by a Monolithic Integrated Ultraviolet Phototransistor. IEEE Electron Device Letters, 2022, 43, 80-83. | 2.2 | 13 |
| 2 | 46.4 Gbps visible light communication system utilizing a compact tricolor laser transmitter. Optics Express, 2022, 30, 4365. | 1.7 | 18 |
| 3 | High-Speed GaN-Based Superluminescent Diode for 4.57 Gbps Visible Light Communication. Crystals, 2022, 12, 191. | 1.0 | 10 |
| 4 | Neural Network Detection for Bandwidth-Limited Non-Orthogonal Multiband CAP UVLC System. IEEE Photonics Journal, 2022, 14, 1-9. | 1.0 | 5 |
| 5 | 205-Gbit/s Visible Light Communication Utilizing 4Å—4 Si-substrate $\hat{1}/4$ LED-based Photodetector Array. , 2022, , . | | 1 |
| 6 | DC-Balanced Even-Dimensional CAP Modulation for Visible Light Communication. Journal of Lightwave Technology, 2022, 40, 5041-5051. | 2.7 | 3 |
| 7 | High-speed visible light communication system based on superluminescent diodes (SLDs). , 2021, , . | | 0 |
| 8 | A 15 Gbps 520-nm GaN Laser Diode Based Visible Light Communication System Utilizing Adaptive Bit Loading Scheme. , 2021, , . | | 1 |
| 9 | Adaptive Diversity Combining Technology with Deep Neural Network for High-Speed and Reliable Underwater Visible Light Communication System. , 2021, , . | | 2 |
| 10 | Non-line-of-sight methodology for high-speed wireless optical communication in highly turbid water. Optics Communications, 2020, 461, 125264. | 1.0 | 34 |
| 11 | Laser-based high bit-rate visible light communications and underwater optical wireless network. , 2020, , . | | 3 |
| 12 | Blue Laser Diode System With an Enhanced Wavelength Tuning Range. IEEE Photonics Journal, 2020, 12, 1-10. | 1.0 | 6 |
| 13 | Blue Superluminescent Diode on c-Plane GaN Beyond Gigahertz Modulation Bandwidth for Visible Light Communication. , 2019, , . | | 0 |
| 14 | 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 |
| 15 | Laser-based visible light communications and underwater wireless optical communications: a device perspective. , 2019, , . | | 16 |
| 16 | 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 |
| 17 | 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 |
| 18 | Toward self-powered and reliable visible light communication using amorphous silicon thin-film solar cells. Optics Express, 2019, 27, 34542. | 1.7 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC. , 2019, , . | | 1 |
| 20 | Study on laser-based white light sources. , 2019, , . | | 2 |
| 21 | Visible light communication using DC-biased optical filter bank multi-carrier modulation. , 2018, , . | | 17 |
| 22 | Worst-case residual clipping noise power model for bit loading in LACO-OFDM. , 2018, , . | | 7 |
| 23 | High Power GaN-Based Blue Superluminescent Diode Exceeding 450 mW. , 2018, , . | | 1 |
| 24 | 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 |
| 25 | 375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. Optics Express, 2018, 26, 12870. | 1.7 | 50 |
| 26 | 32 Gigabit-per-second Visible Light Communication Link with InGaN/GaN MQW Micro-photodetector. Optics Express, 2018, 26, 3037. | 1.7 | 56 |
| 27 | Semipolar InGaN quantum-well laser diode with integrated amplifier for visible light communications. Optics Express, 2018, 26, A219. | 1.7 | 23 |
| 28 | Light based underwater wireless communications. Japanese Journal of Applied Physics, 2018, 57, 08PA06. | 0.8 | 89 |
| 29 | Semipolar GaN-based laser diodes for Gbit/s white lighting communication: devices to systems. , 2018, , . | | 9 |
| 30 | High-power blue superluminescent diode for high CRI lighting and high-speed visible light communication. Optics Express, 2018, 26, 26355. | 1.7 | 44 |
| 31 | High Performance self-injection locked 524 nm green laser diode for high bitrate visible light communications. , 2018, , . | | 0 |
| 32 | Health-friendly high-quality white light using violet-green-red laser and InGaN nanowires-based true yellow nanowires light-emitting diodes. , 2017, , . | | 3 |
| 33 | Semipolar InGaN-based superluminescent diodes for solid-state lighting and visible light communications. Proceedings of SPIE, 2017, , . | 0.8 | 6 |
| 34 | 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 |
| 35 | Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. Nano Letters, 2017, 17, 4759-4767. | 4.5 | 251 |
| 36 | Underwater wireless optical communications: From system-level demonstrations to channel modelling. , 2017, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Integrated photonic platform based on semipolar InGaN/GaN multiple section laser diodes. , 2017, , . | | 2 |
| 38 | Going beyond 10-meter, Gbit/s underwater optical wireless communication links based on visible lasers. , 2017, , . | | 13 |
| 39 | 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. | 1.7 | 75 |
| 40 | 71-Mbit/s ultraviolet-B LED communication link based on 8-QAM-OFDM modulation. Optics Express, 2017, 25, 23267. | 1.7 | 54 |
| 41 | Visible Lasers and Emerging Color Converters for Lighting and Visible Light Communications. , 2017, , . | | 3 |
| 42 | High-speed 405-nm superluminescent diode (SLD) with 807-MHz modulation bandwidth. Optics Express, 2016, 24, 20281. | 1.7 | 50 |
| 43 | 20-meter underwater wireless optical communication link with 15 Gbps data rate. Optics Express, 2016, 24, 25502. | 1.7 | 234 |
| 44 | 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 |
| 45 | 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 |
| 46 | Carbon nanotube-graphene composite film as transparent conductive electrode for GaN-based light-emitting diodes. Applied Physics Letters, 2016, 109, . | 1.5 | 20 |
| 47 | High gain semiconductor optical amplifier " Laser diode at visible wavelength. , 2016, , . | | 4 |
| 48 | High-brightness semipolar (2021Å) blue InGaN/GaN superluminescent diodes for droop-free solid-state lighting and visible-light communications. Optics Letters, 2016, 41, 2608. | 1.7 | 54 |
| 49 | Red to green emitters from InGaP/InAlGaP laser structure by strain-induced quantum-well intermixing. , 2016, , . | | 1 |
| 50 | Ultrabroad linewidth orange-emitting nanowires LED for high CRI laser-based white lighting and gigahertz communications. Optics Express, 2016, 24, 19228. | 1.7 | 20 |
| 51 | Observation of Ultrafast Exciton "Exciton Annihilation in CsPbBr ₃ Quantum Dots. Advanced Optical Materials, 2016, 4, 1993-1997. | 3.6 | 64 |
| 52 | 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 |
| 53 | GHz modulation enabled using large extinction ratio waveguide-modulator integrated with 404 nm GaN laser diode. , 2016, , . | | 2 |
| 54 | Raman and Photoluminescence Spectroscopy of Laser Irradiated Sites of Fused Silica: Comparison between Bulk and Surface Damage. , 2016, , . | | 2 |

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|----|--|-----|-----------|
| 55 | Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. <i>Nanoscale</i> , 2016, 8, 12294-12306. | 2.8 | 127 |
| 56 | Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016, 3, 1150-1156. | 3.2 | 221 |
| 57 | High-Modulation-Efficiency, Integrated Waveguide Modulator-Laser Diode at 448 nm. <i>ACS Photonics</i> , 2016, 3, 262-268. | 3.2 | 73 |
| 58 | Facile Formation of High-Quality InGaN/GaN Quantum-Disks-in-Nanowires on Bulk-Metal Substrates for High-Power Light-Emitters. <i>Nano Letters</i> , 2016, 16, 1056-1063. | 4.5 | 84 |
| 59 | GHz modulation bandwidth from single-longitudinal mode violet-blue VCSEL using nonpolar InGaN/GaN QWs. , 2016, , . | | 7 |
| 60 | Direct Growth of High-Power InGaN/GaN Quantum-Disks-in-Nanowires Red Light-Emitting Diodes on Polycrystalline Molybdenum Substrates. , 2016, , . | | 0 |
| 61 | High-performance InGaN/GaN Quantum-Disks-in-Nanowires Light-emitters for Monolithic Metal-Optoelectronics. , 2016, , . | | 0 |
| 62 | 2 Gbit/s data transmission from an unfiltered laser-based phosphor-converted white lighting communication system. <i>Optics Express</i> , 2015, 23, 29779. | 1.7 | 103 |
| 63 | Achieving Uniform Carrier Distribution in MBE-Grown Compositionally Graded InGaN Multiple-Quantum-Well LEDs. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9. | 1.0 | 22 |
| 64 | Low modulation bias InGaN-based integrated EA-modulator-laser on semipolar GaN substrate. , 2015, , . | | 1 |
| 65 | Intermixing effects on emission properties of InGaN/GaN coupled Quantum wells. , 2015, , . | | 0 |
| 66 | Enabling area-selective potential-energy engineering in InGaN/GaN quantum wells by post-growth intermixing. <i>Optics Express</i> , 2015, 23, 7991. | 1.7 | 15 |
| 67 | Optical Gain and Absorption of 420 nm InGaN-based Laser Diodes Grown on m-Plane GaN Substrate. , 2014, , . | | 0 |
| 68 | Red to Near-Infrared Emission from InGaN/GaN Quantum-Disks-in-Nanowires LED. , 2014, , . | | 2 |
| 69 | Extending quantum efficiency roll-over threshold with compositionally graded InGaN/GaN LED. , 2014, , . | | 0 |
| 70 | Strain relief InGaN/GaN MQW micro-pillars for high brightness LEDs. , 2013, , . | | 1 |
| 71 | InGaN micro-LED-pillar as the building block for high brightness emitters. , 2013, , . | | 6 |
| 72 | Long-term RF Burn-in Effects on Dielectric Charging of MEMS Capacitive Switches. <i>IEEE Transactions on Device and Materials Reliability</i> , 2013, 13, 310-315. | 1.5 | 3 |

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|----|--|-----|-----------|
| 73 | Surface States Effect on the Large Photoluminescence Redshift in GaN Nanostructures. , 2013, , . | | 1 |
| 74 | Thinning and functionalization of few-layer graphene sheets by CF4 plasma treatment. Nanoscale Research Letters, 2012, 7, 268. | 3.1 | 24 |