

Lin Chang

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,509
citations

230014

27
h-index

355658

38
g-index

47
all docs

47
docs citations

47
times ranked

2438
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Silicon-integrated nonlinear III-V photonics. Photonics Research, 2022, 10, 535. | 3.4 | 13 |
| 2 | Integrated optical frequency comb technologies. Nature Photonics, 2022, 16, 95-108. | 15.6 | 215 |
| 3 | Platicon microcomb generation using laser self-injection locking. Nature Communications, 2022, 13, 1771. | 5.8 | 39 |
| 4 | Microcomb-driven silicon photonic systems. Nature, 2022, 605, 457-463. | 13.7 | 128 |
| 5 | Probing material absorption and optical nonlinearity of integrated photonic materials. Nature Communications, 2022, 13, . | 5.8 | 27 |
| 6 | Second Order Nonlinear Photonic Integrated Platforms for Optical Signal Processing. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11. | 1.9 | 8 |
| 7 | Efficient second harmonic generation in lithium niobate on insulator waveguides and its pitfalls. JPhys Photonics, 2021, 3, 012008. | 2.2 | 14 |
| 8 | Formation Dynamics and Snapshots of Self-injection-locking Dark Solitons. , 2021, , . | | 0 |
| 9 | Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. Nature Photonics, 2021, 15, 346-353. | 15.6 | 260 |
| 10 | Hybrid InP and SiN integration of an octave-spanning frequency comb. APL Photonics, 2021, 6, . | 3.0 | 20 |
| 11 | Ultrabright Entangled-Photon-Pair Generation from an AlGaAs -On-chip Microring Resonator. PRX Quantum, 2021, 2, . | 3.5 | 61 |
| 12 | Higher order mode supercontinuum generation in tantalum pentoxide (Ta ₂ O ₅) channel waveguide. Scientific Reports, 2021, 11, 7978. | 1.6 | 5 |
| 13 | Integrated photonic high extinction short and long pass filters based on lateral leakage. Optics Express, 2021, 29, 18905-18914. | 1.7 | 2 |
| 14 | CMOS-foundry-based blue and violet photonics. Optica, 2021, 8, 755. | 4.8 | 32 |
| 15 | High Speed Evanescent Quantum-Dot Lasers on Si. Laser and Photonics Reviews, 2021, 15, 2100057. | 4.4 | 57 |
| 16 | Laser soliton microcombs heterogeneously integrated on silicon. Science, 2021, 373, 99-103. | 6.0 | 173 |
| 17 | Ultra-narrow linewidth lasers and microcombs based on self-injection locking in integrated photonics (Invited). , 2021, , . | | 0 |
| 18 | Reaching fiber-laser coherence in integrated photonics. Optics Letters, 2021, 46, 5201. | 1.7 | 61 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Hertz-level-linewidth semiconductor laser via injection locking to an ultra-high Q silicon nitride microresonator. , 2021, , . | | 0 |
| 20 | High-performance lasers for fully integrated silicon nitride photonics. Nature Communications, 2021, 12, 6650. | 5.8 | 61 |
| 21 | Chip-scale nonlinear photonics for quantum light generation. AVS Quantum Science, 2020, 2, . | 1.8 | 47 |
| 22 | Dissipative Kerr Solitons in a III-V Microresonator. Laser and Photonics Reviews, 2020, 14, 2000022. | 4.4 | 45 |
| 23 | Integrated turnkey soliton microcombs. Nature, 2020, 582, 365-369. | 13.7 | 295 |
| 24 | Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. Nature Communications, 2020, 11, 1331. | 5.8 | 151 |
| 25 | Efficient second harmonic generation in nanophotonic GaAs-on-insulator waveguides. Optics Express, 2020, 28, 9521. | 1.7 | 44 |
| 26 | Effects of nonlinear loss in high-Q Si ring resonators for narrow-linewidth III-V/Si heterogeneously integrated tunable lasers. Optics Express, 2020, 28, 19926. | 1.7 | 31 |
| 27 | Ultrahigh-Q AlGaAs-on-insulator microresonators for integrated nonlinear photonics. Optics Express, 2020, 28, 32894. | 1.7 | 42 |
| 28 | Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. , 2020, , . | | 2 |
| 29 | Toward fully integrated nonlinear photonics. , 2020, , . | | 0 |
| 30 | Stimulated Brillouin Scattering in AlGaAs on insulator waveguides. , 2020, , . | | 4 |
| 31 | Strong frequency conversion in heterogeneously integrated GaAs resonators. APL Photonics, 2019, 4, 036103. | 3.0 | 63 |
| 32 | On-chip polarization rotator for type I second harmonic generation. APL Photonics, 2019, 4, 126105. | 3.0 | 10 |
| 33 | Generation of Octave-Spanning Microresonator Solitons with a Self Injection-Locked DFB Laser. , 2019, , . | | 0 |
| 34 | Improved second harmonic performance in periodically poled LNOI waveguides through engineering of lateral leakage. Optics Express, 2019, 27, 23919. | 1.7 | 42 |
| 35 | Low loss (Al)GaAs on an insulator waveguide platform. Optics Letters, 2019, 44, 4075. | 1.7 | 16 |
| 36 | Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. Laser and Photonics Reviews, 2018, 12, 1700256. | 4.4 | 435 |

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|----|--|------|-----------|
| 37 | An optical-frequency synthesizer using integrated photonics. Nature, 2018, 557, 81-85. | 13.7 | 550 |
| 38 | Quasi-Phase-Matched Supercontinuum Generation in Photonic Waveguides. Physical Review Letters, 2018, 120, 053903. | 2.9 | 34 |
| 39 | Nonlinear Optics: Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion (Laser Photonics Rev. 12(10)/2018). Laser and Photonics Reviews, 2018, 12, 1870044. | 4.4 | 4 |
| 40 | High Efficiency SHG in Heterogenous Integrated GaAs Ring Resonators. , 2018, , . | | 0 |
| 41 | Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. Laser and Photonics Reviews, 2018, 12, 1800149. | 4.4 | 73 |
| 42 | Semiconductor optical amplifiers at 2.0µm wavelength on silicon. Laser and Photonics Reviews, 2017, 11, 1600165. | 4.4 | 37 |
| 43 | Heterogeneous integration of lithium niobate and silicon nitride waveguides for wafer-scale photonic integrated circuits on silicon. Optics Letters, 2017, 42, 803. | 1.7 | 116 |
| 44 | Frequency comb generation in the green using silicon nitride microresonators. Laser and Photonics Reviews, 2016, 10, 631-638. | 4.4 | 59 |
| 45 | Refined procedure for gain measurement in Fabry-Perot semiconductor lasers. , 2016, , . | | 0 |
| 46 | Thin film wavelength converters for photonic integrated circuits. Optica, 2016, 3, 531. | 4.8 | 230 |