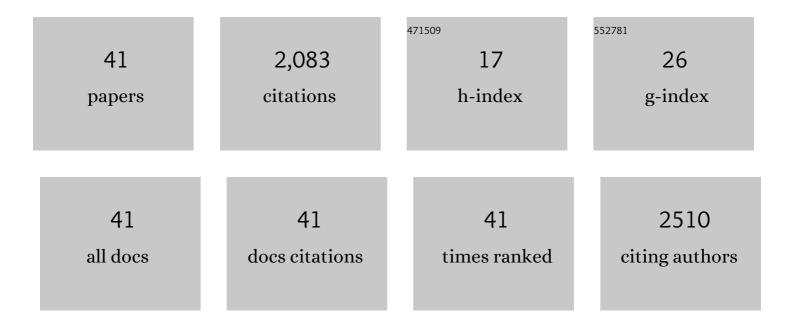
Bart Kuyken

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6580578/publications.pdf Version: 2024-02-01



RADT KUVKEN

| # | Article | IF | CITATIONS |
|----|--|-------------------|-----------|
| 1 | Short Bends using Curved Mirrors in SiliconWaveguides for Terahertz Waves. Optics Express, 2022, 30, 6656-6670. | 3.4 | 4 |
| 2 | High- <i>Q</i> THz Photonic Crystal Cavity on a Low-Loss Suspended Silicon Platform. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 42-53. | 3.1 | 20 |
| 3 | Taking silicon photonics modulators to a higher performance level: state-of-the-art and a review of new technologies. Advanced Photonics, 2021, 3, . | 11.8 | 151 |
| 4 | Hybrid modeling approach for mode-locked laser diodes with cavity dispersion and nonlinearity. Scientific Reports, 2021, 11, 10027. | 3.3 | 2 |
| 5 | Hybrid-integrated extended cavity mode-locked laser using SiN and a generic III/V platform. , 2021, , . | | 0 |
| 6 | Low Noise Heterogeneous IIIâ€Vâ€onâ€Siliconâ€Nitride Mode‣ocked Comb Laser. Laser and Photonics Review 2021, 15, 2000485. | ^{S,} 8.7 | 38 |
| 7 | Gallium phosphide transfer printing for integrated nonlinear photonics. , 2021, , . | | 0 |
| 8 | Realization of Fabrication-Tolerant Si3N4-Si Mode Transformers. , 2021, , . | | 0 |
| 9 | Analysis of the phase-locking dynamics of a III-V-on-silicon frequency comb laser. , 2021, , . | | 1 |
| 10 | Second-harmonic generation enabled by longitudinal electric-field components in photonic wire waveguides. Physical Review A, 2020, 102, . | 2.5 | 8 |
| 11 | Supercontinuum Generation Assisted by Wave Trapping in Dispersion-Managed Integrated Silicon Waveguides. Physical Review Applied, 2020, 14, . | 3.8 | 13 |
| 12 | Proposal for an integrated silicon-photonics terahertz gas detector using photoacoustics. Optics Express, 2020, 28, 22424. | 3.4 | 6 |
| 13 | Air-filled Substrate-Integrated Waveguide Technology for Broadband and Highly-Efficient Photonic-Enabled Antenna Systems. , 2020, , . | | 2 |
| 14 | High Q factor and high transmittance suspended membrane THz PhC cavity: experimental demonstration for sensing applications. , 2020, , . | | 0 |
| 15 | Thermally Tunable Quantum Cascade Laser With an External Germanium-on-SOI Distributed Bragg Reflector. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7. | 2.9 | 5 |
| 16 | Si and Si-Rich Silicon-Nitride Waveguides for Optical Transmissions and Nonlinear Applications Around 2 μm. , 2019, , . | | 0 |
| 17 | Low Loss Suspended Silicon Waveguide and Photonic Crystal for THz Regime. , 2019, , . | | 2 |
| 18 | Experimental Observation of Second Harmonic Generation Enabled by Longitudinal Components in Indium Gallium Phosphide Nanowires. , 2019, , . | | 0 |

Bart Kuyken

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Suspended Silicon Terahertz platform with low loss waveguide and high Q Photonic Crystal cavities. , 2019, , . | | 1 |
| 20 | High speed phase modulators for silicon photonic integrated circuits: a role for lithium niobate?. Advanced Photonics, 2019, 1, 1. | 11.8 | 8 |
| 21 | Physical origin of higher-order soliton fission in nanophotonic semiconductor waveguides. Scientific Reports, 2018, 8, 17177. | 3.3 | 7 |
| 22 | Gate-Tunable Nonlinear Refraction and Absorption in Graphene-Covered Silicon Nitride Waveguides. ACS Photonics, 2018, 5, 4944-4950. | 6.6 | 25 |
| 23 | Nanophotonic Pockels modulators on a silicon nitride platform. Nature Communications, 2018, 9, 3444. | 12.8 | 163 |
| 24 | Highly Nondegenerate Two-Photon Absorption in Silicon Wire Waveguides. Physical Review Applied, 2018, 10, . | 3.8 | 6 |
| 25 | Electrically Tunable Optical Nonlinearities in Graphene-Covered SiN Waveguides Characterized by Four-Wave Mixing. ACS Photonics, 2017, 4, 3039-3044. | 6.6 | 78 |
| 26 | Novel Light Source Integration Approaches for Silicon Photonics. Laser and Photonics Reviews, 2017, 11, 1700063. | 8.7 | 143 |
| 27 | A III-V-on-Si ultra-dense comb laser. Light: Science and Applications, 2017, 6, e16260-e16260. | 16.6 | 114 |
| 28 | Expanding the Silicon Photonics Portfolio With Silicon Nitride Photonic Integrated Circuits. Journal of Lightwave Technology, 2017, 35, 639-649. | 4.6 | 232 |
| 29 | III-V-on-Silicon Photonic Devices for Optical Communication and Sensing. Photonics, 2015, 2, 969-1004. | 2.0 | 103 |
| 30 | Interaction between light and highly confined hypersound in a silicon photonic nanowire. Nature Photonics, 2015, 9, 199-203. | 31.4 | 283 |
| 31 | An octave-spanning mid-infrared frequency comb generated in a silicon nanophotonic wire waveguide. Nature Communications, 2015, 6, 6310. | 12.8 | 191 |
| 32 | Observation of 4.4 dB Brillouin gain in a silicon photonic wire. , 2014, , . | | 1 |
| 33 | Nonlinear absorption and refraction in crystalline silicon in the midâ€infrared. Laser and Photonics Reviews, 2013, 7, 1054-1064. | 8.7 | 77 |
| 34 | A silicon-based widely tunable short-wave infrared optical parametric oscillator. Optics Express, 2013, 21, 5931. | 3.4 | 39 |
| 35 | Mid-infrared to telecom-band stable supercontinuum generation in hydrogenated amorphous silicon waveguides. , 2013, , . | | 2 |
| 36 | Nonlinear Optics in Silicon Wire Waveguides: Towards Integrated Long Wavelength Light Sources. Materials Research Society Symposia Proceedings, 2012, 1437, 58. | 0.1 | 0 |

BART KUYKEN

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | High-Efficiency SOI Fiber-to-Chip Grating Couplers and Low-Loss Waveguides for the Short-Wave Infrared. IEEE Photonics Technology Letters, 2012, 24, 1536-1538. | 2.5 | 53 |
| 38 | Bridging the mid-infrared-to-telecom gap with silicon nanophotonic spectral translation. Nature Photonics, 2012, 6, 667-671. | 31.4 | 141 |
| 39 | Widely tunable silicon mid-infrared optical parametric oscillator. , 2011, , . | | 1 |
| 40 | Mid-infrared to telecom-band supercontinuum generation in highly nonlinear silicon-on-insulator wire waveguides. Optics Express, 2011, 19, 20172. | 3.4 | 162 |
| 41 | Nonlinear silicon nanophotonics for mid-infrared applications. , 2011, , . | | 1 |