# DondÃœ Sahin

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 32 papers | 1,005 citations | 623574 14 h-index | 839398 18 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 1282 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Waveguide superconducting single-photon detectors for integrated quantum photonic circuits. Applied Physics Letters, 2011, 99, . | 1.5 | 251 |
| 2 | Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-10. | 1.9 | 188 |
| 3 | Experimental Test of Theories of the Detection Mechanism in a Nanowire Superconducting Single Photon Detector. Physical Review Letters, 2014, 112, 117604. | 2.9 | 106 |
| 4 | Photon-number resolving detector based on a series array of superconducting nanowires. Applied Physics Letters, 2012, 101, 072602. | 1.5 | 70 |
| 5 | Nanowire superconducting single-photon detectors on GaAs for integrated quantum photonic applications. Applied Physics Letters, 2010, 97, . | 1.5 | 67 |
| 6 | Waveguide photon-number-resolving detectors for quantum photonic integrated circuits. Applied Physics Letters, 2013, 103, . | 1.5 | 66 |
| 7 | Position-Dependent Local Detection Efficiency in a Nanowire Superconducting Single-Photon Detector. Nano Letters, 2015, 15, 4541-4545. | 4.5 | 48 |
| 8 | Photon-number-resolving superconducting nanowire detectors. Superconductor Science and Technology, 2015, 28, 104001. | 1.8 | 39 |
| 9 | Superconducting series nanowire detector counting up to twelve photons. Optics Express, 2014, 22, 3475. | 1.7 | 36 |
| 10 | Inhomogeneous critical current in nanowire superconducting single-photon detectors. Applied Physics Letters, 2014, 105, 222602. | 1.5 | 28 |
| 11 | Low-loss, low-crosstalk waveguide crossing for scalable integrated silicon photonics applications. Optics Express, 2020, 28, 12498. | 1.7 | 24 |
| 12 | Integrated autocorrelator based on superconducting nanowires. Optics Express, 2013, 21, 11162. | 1.7 | 21 |
| 13 | Modelling superconducting nanowire single photon detectors in a waveguide cavity. Optics Express, 2016, 24, 8797. | 1.7 | 16 |
| 14 | The effect of magnetic field on the intrinsic detection efficiency of superconducting single-photon detectors. Applied Physics Letters, 2015, 106, . | 1.5 | 14 |
| 15 | Temperature Dependence of the Kerr Nonlinearity and Two-Photon Absorption in a Silicon Waveguide at 1.55 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Î¼</mml:mi><mml:mrow><mml:mrow><mml:mi mathvariant="normal">m</mml:mi></mml:mrow></mml:mrow></mml:math>. Physical Review Applied, 2019, 11, . | 1.5 | 14 |
| 16 | Evolution of SiO2/Ge/HfO2(Ge) multilayer structure during high temperature annealing. Thin Solid Films, 2010, 518, 2365-2369. | 0.8 | 9 |
| 17 | Superconducting nanowires connected in series for photon number resolving functionality. Journal of Physics: Conference Series, 2014, 507, 042024. | 0.3 | 4 |
| 18 | Nanowire superconducting single-photon detectors integrated with optical microcavities based on GaAs substrates. , 2011, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Quantum integrated photonics on GaAs. , 2012, , . | | 1 |
| 20 | Waveguide Superconducting Single- and Few-Photon Detectors on GaAs for Integrated Quantum Photonics. Quantum Science and Technology, 2016, , 61-83. | 1.5 | 1 |
| 21 | Modelling Waveguide-Integrated Superconducting Nanowire Single Photon Detectors at Short-Wave Infrared. , 2018, , . | | 1 |
| 22 | Development of superconducting single-photon detectors for integrated quantum photonics applications. , 2011, , . | | 0 |
| 23 | Detecting Single Photons Using Superconducting Nanowires. , 2012, , . | | 0 |
| 24 | Experimental demonstration of a novel superconducting photon-number resolving detector at telecom wavelengths. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 25 | Superconducting nanowire single-photon detectors integrated with waveguide circuits for quantum information science. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 26 | Quantum integrated photonics on GaAs. , 2013, , . | | 0 |
| 27 | Single-photon and photon-number-resolving detectors integrated with waveguide circuits. , 2013, , . | | 0 |
| 28 | A scalable photon number resolving detector. , 2014, , . | | 0 |
| 29 | Photon-number-resolving detectors integrated in GaAs waveguide. , 2014, , . | | 0 |
| 30 | Modelling superconducting nanowire single photon detectors in a waveguide-based ring resonator. , 2016, , . | | 0 |
| 31 | Modelling superconducting nanowire single photon detectors in a waveguide-based resonator. , 2016, , . | | 0 |
| 32 | Modelling efficient Superconducting nanowire single photon detectors for Mid wave infrared photons. , 2020, , . | | 0 |