Harald Kübler

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Microwave electrometry with Rydberg atoms in a vapour cell using bright atomic resonances. Nature Physics, 2012, 8, 819-824. | 16.7 | 475 |
| 2 | Atom-Based Vector Microwave Electrometry Using Rubidium Rydberg Atoms in a Vapor Cell. Physical Review Letters, 2013, 111, 063001. | 7.8 | 220 |
| 3 | Atom based RF electric field sensing. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 202001. | 1.5 | 216 |
| 4 | Coherent excitation of Rydberg atoms in micrometre-sized atomic vapour cells. Nature Photonics, 2010, 4, 112-116. | 31.4 | 157 |
| 5 | A room-temperature single-photon source based on strongly interacting Rydberg atoms. Science, 2018, 362, 446-449. | 12.6 | 122 |
| 6 | Atom-Based Sensing of Weak Radio Frequency Electric Fields Using Homodyne Readout. Scientific Reports, 2017, 7, 42981. | 3.3 | 113 |
| 7 | Rydberg-atom based radio-frequency electrometry using frequency modulation spectroscopy in room temperature vapor cells. Optics Express, 2017, 25, 8625. | 3.4 | 101 |
| 8 | Subwavelength microwave electric-field imaging using Rydberg atoms inside atomic vapor cells. Optics Letters, 2014, 39, 3030. | 3.3 | 95 |
| 9 | GHz Rabi Flopping to Rydberg States in Hot Atomic Vapor Cells. Physical Review Letters, 2011, 107, 243001. | 7.8 | 55 |
| 10 | Four-wave mixing involving Rydberg states in thermal vapor. Physical Review A, 2012, 85, . | 2.5 | 51 |
| 11 | Atomic vapor spectroscopy in integrated photonic structures. Applied Physics Letters, 2015, 107, . | 3.3 | 48 |
| 12 | Electrical Readout for Coherent Phenomena Involving Rydberg Atoms in Thermal Vapor Cells. Physical Review Letters, 2013, 110, 123002. | 7.8 | 38 |
| 13 | Coupling Thermal Atomic Vapor to Slot Waveguides. Physical Review X, 2018, 8, . | 8.9 | 32 |
| 14 | Charge-induced optical bistability in thermal Rydberg vapor. Physical Review A, 2016, 94, . | 2.5 | 30 |
| 15 | Coupling thermal atomic vapor to an integrated ring resonator. New Journal of Physics, 2016, 18, 103031. | 2.9 | 29 |
| 16 | Dispersive radio frequency electrometry using Rydberg atoms in a prism-shaped atomic vapor cell. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 104004. | 1.5 | 28 |
| 17 | Triple stack glass-to-glass anodic bonding for optogalvanic spectroscopy cells with electrical feedthroughs. Applied Physics Letters, 2014, 105, . | 3.3 | 24 |
| 18 | Fabrication and characterization of an electrically contacted vapor cell. Optics Letters, 2012, 37, 2271. | 3.3 | 21 |

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| 19 | RF-dressed Rydberg atoms in hollow-core fibres. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 134005. | 1.5 | 18 |
| 20 | Interplay between thermal Rydberg gases and plasmas. Physical Review A, 2019, 99, . | 2.5 | 18 |
| 21 | Coherent interaction of atoms with a beam of light confined in a light cage. Light: Science and Applications, 2021, 10, 114. | 16.6 | 16 |
| 22 | Fiber-integrated spectroscopy device for hot alkali vapor. Applied Optics, 2017, 56, 5898. | 1.8 | 12 |
| 23 | Atomic Faraday beam splitter for light generated from pump-degenerate four-wave mixing in a hollow-core photonic crystal fiber. Physical Review A, 2021, 103, . | 2.5 | 12 |
| 24 | Proof of concept for an optogalvanic gas sensor for NO based on Rydberg excitations. Applied Physics Letters, 2018, 113, . | 3.3 | 11 |
| 25 | Two-frequency acousto-optic modulator driver to improve the beam pointing stability during intensity ramps. Review of Scientific Instruments, 2007, 78, 043101. | 1.3 | 9 |
| 26 | A read-out enhancement for microwave electric field sensing with Rydberg atoms. , 2018, , . | | 9 |
| 27 | Narrow bandwidth electromagnetically induced transparency in optically trapped atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1907-1915. | 1.5 | 7 |
| 28 | Exploiting the coupling between a Rydberg atom and a surface phonon polariton for single-photon subtraction. Physical Review A, 2013, 88, . | 2.5 | 7 |
| 29 | Highly customized 1010 nm, ns-pulsed Yb-doped fiber amplifier as a key tool for on-demand single-photon generation. Optics Express, 2020, 28, 17362. | 3.4 | 6 |
| 30 | Integrating two-photon nonlinear spectroscopy of rubidium atoms with silicon photonics. Optics Express, 2020, 28, 19593. | 3.4 | 5 |
| 31 | Low retaining force optical viewport seal. Review of Scientific Instruments, 2007, 78, 046107. | 1.3 | 4 |
| 32 | An optogalvanic gas sensor based on Rydberg excitations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 094001. | 1.5 | 4 |
| 33 | Transient Density-Induced Dipolar Interactions in a Thin Vapor Cell. Physical Review Letters, 2022, 128, 173401. | 7.8 | 4 |
| 34 | High vacuum compatible fiber feedthrough for hot alkali vapor cells. Applied Optics, 2017, 56, 1546. | 2.1 | 2 |
| 35 | Rydberg atom-based radio frequency electrometry: hyperfine effects. , 2022, , . | | 2 |
| 36 | A transimpedance amplifier based on an LTPS process operated in alkali vapor for the measurement of an ionization current. , 2018, , . | | 1 |

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|----|---|----|-----------|
| 37 | Atom-based sensing of microwave electric fields using highly excited atoms: mechanisms affecting sensitivity. , 2019, , . | | 1 |
| 38 | Atom Based Vector Microwave Electrometry Using Rubidium Rydberg Atoms in a Vapor Cell. , 2014, , . | | 1 |
| 39 | Coherent Rydberg excitation in microscopic thermal vapor cells. , 2010, , . | | 0 |
| 40 | Commissioning of a Highly Customized 1010 nm, ns-Pulsed, Yb-Doped Fiber Amplifier for On-Demand Single-Photon Generation. , 2021, , . | | 0 |
| 41 | Quantum Assisted Sensing Using Rydberg Atoms. , 2012, , . | | 0 |
| 42 | Towards an Optogalvanic Flux Sensor for Nitric Oxide Based on Rydberg Excitation. , 2021, , . | | 0 |