# Alexander Huck

List of Publications by Year
in descending order



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|---|---|---|---|
| 58 papers | 1,465 citations | 377584 21 h-index | 355658 38 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 1945 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bright Quantum Dot Single-Photon Emitters at Telecom Bands Heterogeneously Integrated on Si. ACS Photonics, 2022, 9, 2273-2279. | 3.2 | 17 |
| 2 | High-Speed Wide-Field Imaging of Microcircuitry Using Nitrogen Vacancies in Diamond. Physical Review Applied, 2022, 17, . | 1.5 | 8 |
| 3 | Optimal control of a nitrogen-vacancy spin ensemble in diamond for sensing in the pulsed domain. Physical Review B, 2022, 106, . | 1.1 | 9 |
| 4 | Detection of biological signals from a live mammalian muscle using an early stage diamond quantum sensor. Scientific Reports, 2021, 11, 2412. | 1.6 | 39 |
| 5 | In-vitro Recordings of Neural Magnetic Activity From the Auditory Brainstem Using Color Centers in Diamond: A Simulation Study. Frontiers in Neuroscience, 2021, 15, 643614. | 1.4 | 5 |
| 6 | Laser threshold magnetometry using green-light absorption by diamond nitrogen vacancies in an external cavity laser. Physical Review A, 2021, 103, . | 1.0 | 4 |
| 7 | Magnetic Field Mapping Around Individual Magnetic Nanoparticle Agglomerates Using Nitrogenâ€Vacancy Centers in Diamond. Particle and Particle Systems Characterization, 2021, 38, 2100011. | 1.2 | 3 |
| 8 | Nitrogen-vacancy defect emission spectra in the vicinity of an adjustable silver mirror. Materials for Quantum Technology, 2021, 1, 015002. | 1.2 | 1 |
| 9 | Monolithic integration of InP on Si by molten alloy driven selective area epitaxial growth. Nanoscale, 2020, 12, 23780-23788. | 2.8 | 5 |
| 10 | Optimization of a Diamond Nitrogen Vacancy Centre Magnetometer for Sensing of Biological Signals. Frontiers in Physics, 2020, 8, . | 1.0 | 22 |
| 11 | Observation of the magneto-optic Voigt effect in a paramagnetic diamond membrane. Physical Review B, 2020, 101, . | 1.1 | 1 |
| 12 | Cavity-Enhanced Photon Emission from a Single Germanium-Vacancy Center in a Diamond Membrane. Physical Review Applied, 2020, 13, . | 1.5 | 22 |
| 13 | Photophysics of quantum emitters in hexagonal boron-nitride nano-flakes. Optics Express, 2020, 28, 7475. | 1.7 | 33 |
| 14 | Coupling colloidal quantum dots to a dielectric slot-waveguide. Journal of Physics Communications, 2020, 4, 085003. | 0.5 | 0 |
| 15 | Nanotesla sensitivity magnetic field sensing using a compact diamond nitrogen-vacancy magnetometer. Applied Physics Letters, 2019, 114, . | 1.5 | 73 |
| 16 | Continuous microwave hole burning and population oscillations in a diamond spin ensemble. Physical Review B, 2019, 100, . | 1.1 | 8 |
| 17 | Contributed Review: Camera-limits for wide-field magnetic resonance imaging with a nitrogen-vacancy spin sensor. Review of Scientific Instruments, 2018, 89, 031501. | 0.6 | 26 |
| 18 | Nitrogen-vacancy ensemble magnetometry based on pump absorption. Physical Review B, 2018, 97, . | 1.1 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Feasibility and resolution limits of opto-magnetic imaging of neural network activity in brain slices using color centers in diamond. Scientific Reports, 2018, 8, 4503. | 1.6 | 20 |
| 20 | Clock transition by continuous dynamical decoupling of a three-level system. Scientific Reports, 2018, 8, 14807. | 1.6 | 10 |
| 21 | Precision temperature sensing in the presence of magnetic field noise and vice-versa using nitrogen-vacancy centers in diamond. Applied Physics Letters, 2018, 113, . | 1.5 | 35 |
| 22 | Cavity-Enhanced Nitrogen-Vacancy Ensemble Magnetometry. , 2018, , . | | 0 |
| 23 | Towards wide-field imaging of brain slices using a quantum diamond microscope (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | | 0 |
| 24 | Qudi: A modular python suite for experiment control and data processing. SoftwareX, 2017, 6, 85-90. | 1.2 | 93 |
| 25 | Narrow-bandwidth sensing of high-frequency fields with continuous dynamical decoupling. Nature Communications, 2017, 8, 1105. | 5.8 | 45 |
| 26 | Pump-Enhanced Continuous-Wave Magnetometry Using Nitrogen-Vacancy Ensembles. Physical Review Applied, 2017, 8, . | 1.5 | 31 |
| 27 | Optimised frequency modulation for continuous-wave optical magnetic resonance sensing using nitrogen-vacancy ensembles. Optics Express, 2017, 25, 14809. | 1.7 | 49 |
| 28 | Nitrogen-Vacancy Ensemble Magnetometry Based on Pump Absorption. , 2017, , . | | 0 |
| 29 | Determining the internal quantum efficiency of shallow-implanted nitrogen-vacancy defects in bulk diamond. Optics Express, 2016, 24, 27715. | 1.7 | 27 |
| 30 | Quantum enhanced feedback cooling of a mechanical oscillator using nonclassical light. Nature Communications, 2016, 7, 13628. | 5.8 | 51 |
| 31 | Coupling single emitters to quantum plasmonic circuits. Nanophotonics, 2016, 5, 483-495. | 2.9 | 39 |
| 32 | Increasing the photon collection rate from a single NV center with a silver mirror. Journal of Optics (United Kingdom), 2014, 16, 114017. | 1.0 | 5 |
| 33 | High-quality MOVPE butt-joint integration of InP/AlGaInAs/InGaAsP-based all-active optical components. Journal of Crystal Growth, 2014, 402, 243-248. | 0.7 | 4 |
| 34 | Generation and Controlled Routing of Single Plasmons on a Chip. Nano Letters, 2014, 14, 663-669. | 4.5 | 39 |
| 35 | Resonance Energy Transfer in Hybrid Devices in the Presence of a Surface. Journal of Physical Chemistry C, 2014, 118, 16284-16289. | 1.5 | 2 |
| 36 | Demonstration of a variable plasmonic beam splitter. Proceedings of SPIE, 2014, , . | 0.8 | 0 |

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|---|---|---|---|
| 37 | Design and geometry of hybrid white light-emitted diodes for efficient energy transfer from the quantum well to the nanocrystals. Proceedings of SPIE, 2013, , . | 0.8 | 1 |
| 38 | Efficient Coupling of a Single Diamond Color Center to Propagating Plasmonic Gap Modes. Nano Letters, 2013, 13, 1221-1225. | 4.5 | 82 |
| 39 | Large Optical Nonlinearity of Surface Plasmon Modes on Thin Gold Films. Plasmonics, 2013, 8, 1597-1605. | 1.8 | 7 |
| 40 | Coupling of single quantum emitters to plasmons propagating on mechanically etched wires. Optics Letters, 2013, 38, 3838. | 1.7 | 10 |
| 41 | Coupling of a single quantum emitter to end-to-end aligned silver nanowires. Applied Physics Letters, 2013, 102, 103106. | 1.5 | 17 |
| 42 | Propagation of plasmons in designed single crystalline silver nanostructures. Optics Express, 2012, 20, 24614. | 1.7 | 16 |
| 43 | Continuous-wave spatial quantum correlations of light induced by multiple scattering. Physical Review A, 2012, 86, . | 1.0 | 11 |
| 44 | Coupling of a Single Nitrogen Vacancy Center to the Gap Modes of a Dual Silver Nanowire System. , 2012, , . | | 0 |
| 45 | Controlled Coupling of a Single Nitrogen-Vacancy Center to a Silver Nanowire. Physical Review Letters, 2011, 106, 096801. | 2.9 | 217 |
| 46 | Controlling the coupling of a single nitrogen vacancy center to a Silver nanowire. , 2011, , . | | 0 |
| 47 | Quantum optical coherence can survive photon losses using a continuous-variable quantum erasure-correcting code. Nature Photonics, 2010, 4, 700-705. | 15.6 | 50 |
| 48 | Continuous-Variable Quantum Erasure Correcting Code. , 2010, , . | | 0 |
| 49 | Correlation measurement of squeezed light. Physical Review A, 2009, 79, . | 1.0 | 3 |
| 50 | Demonstration of quadrature squeezed surface-plasmons in a gold waveguide. , 2009, , . | | 0 |
| 51 | Experimental Demonstration of a Quantum Nondemolition Gate. , 2009, , . | | 0 |
| 52 | Demonstration of Quadrature-Squeezed Surface Plasmons in a Gold Waveguide. Physical Review Letters, 2009, 102, 246802. | 2.9 | 103 |
| 53 | Experimental demonstration of spatial quantum correlations in multiple scattering media. , 2009, , . | | 0 |
| 54 | Electronic noise-free measurements of squeezed light. Optics Letters, 2008, 33, 2395. | 1.7 | 5 |

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|---|---|---|---|
| 55 | Demonstration of a Quantum Nondemolition Sum Gate. Physical Review Letters, 2008, 101, 250501. | 2.9 | 106 |
| 56 | Generation of Non-Classical Surface-Plasmon Polaritons. , 2008, , . | | 0 |
| 57 | Demonstration of deterministic and high fidelity squeezing of quantum information. Physical Review A, 2007, 76, . | 1.0 | 80 |
| 58 | Polarization squeezing with photonic crystal fibers. Laser Physics, 2007, 17, 559-566. | 0.6 | 15 |