# Axel Kuhn

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4838197/publications.pdf

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|---|---|---|---|
| 55 papers | 3,856 citations | 201674 27 h-index | 206112 48 g-index |
| 57 all docs | 57 docs citations | 57 times ranked | 2626 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | How to administer an antidote to SchrÃ¶dingerâ€™s cat. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 054001. | 1.5 | 3 |
| 2 | Light-matter interaction in open cavities with dielectric stacks. Applied Physics Letters, 2021, 118, 154002. | 3.3 | 4 |
| 3 | Pushing Purcell enhancement beyond its limits. New Journal of Physics, 2020, 22, 063013. | 2.9 | 9 |
| 4 | Roadmap on STIRAP applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 202001. | 1.5 | 108 |
| 5 | Multimode interferometry for entangling atoms in quantum networks. Quantum Science and Technology, 2019, 4, 025008. | 5.8 | 5 |
| 6 | Polarization Oscillations in Birefringent Emitter-Cavity Systems. Physical Review Letters, 2019, 122, 083602. | 7.8 | 10 |
| 7 | Single-atom trapping and transport in DMD-controlled optical tweezers. New Journal of Physics, 2018, 20, 023013. | 2.9 | 35 |
| 8 | Benchmarking modern algorithms to holographically create optical tweezers for laser-cooled atoms. Journal of Modern Optics, 2018, 65, 2133-2141. | 1.3 | 4 |
| 9 | Nonlinear Zeeman effects in the cavity-enhanced emission of polarised photons. New Journal of Physics, 2018, 20, 073030. | 2.9 | 8 |
| 10 | Quantum Logic with Cavity Photons From Single Atoms. Physical Review Letters, 2016, 117, 023602. | 7.8 | 11 |
| 11 | Qubits, qutrits, and ququads stored in single photons from an atom-cavity system. , 2015, , . | | 1 |
| 12 | Cavity Induced Interfacing of Atoms and Light. Nano-optics and Nanophotonics, 2015, , 3-38. | 0.2 | 6 |
| 13 | Single Emitters in Isolated Quantum Systems. Experimental Methods in the Physical Sciences, 2013, 45, 467-539. | 0.1 | 4 |
| 14 | Photonic qubits, qutrits and ququads accurately prepared and delivered on demand. New Journal of Physics, 2013, 15, 053007. | 2.9 | 55 |
| 15 | Quantum networking with time-bin encoded qu-d-its using single photons emitted on demand from an atom-cavity system. , 2013, , . | | 1 |
| 16 | Control and manipulation of cold atoms in optical tweezers. New Journal of Physics, 2012, 14, 073051. | 2.9 | 56 |
| 17 | Single-photon absorption in coupled atom-cavity systems. Physical Review A, 2012, 85, . | 2.5 | 57 |
| 18 | Spatial light modulators for the manipulation of individual atoms. Applied Physics B: Lasers and Optics, 2011, 102, 443-450. | 2.2 | 12 |

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|---|---|---|---|
| 19 | EIT-based quantum memory for single photons from cavity-QED. Applied Physics B: Lasers and Optics, 2011, 103, 579-589. | 2.2 | 12 |
| 20 | Quantum memories for single photons from cavity-QED. , 2011, , . | | 0 |
| 21 | Highly efficient source for indistinguishable single photons of controlled shape. New Journal of Physics, 2011, 13, 103036. | 2.9 | 61 |
| 22 | Single photons made-to-measure. New Journal of Physics, 2010, 12, 063024. | 2.9 | 65 |
| 23 | Cavity-based single-photon sources. Contemporary Physics, 2010, 51, 289-313. | 1.8 | 71 |
| 24 | Implementation of Atom-Photon Interfaces for Quantum Networking. , 2010, , . | | 0 |
| 25 | Coherent imaging of extended objects. Optics Communications, 2009, 282, 465-472. | 2.1 | 8 |
| 26 | Atom-Photon Entanglement in a Cavity. , 2007, , . | | 0 |
| 27 | Scheme for generating a sequence of single photons of alternating polarization. Journal of Modern Optics, 2007, 54, 1569-1580. | 1.3 | 13 |
| 28 | A single-photon server with just one atom. Nature Physics, 2007, 3, 253-255. | 16.7 | 263 |
| 29 | Single-Atom Single-Photon Quantum Interface. Science, 2007, 317, 488-490. | 12.6 | 414 |
| 30 | Time-resolved and state-selective detection of single freely falling atoms. Optics Communications, 2006, 264, 271-277. | 2.1 | 12 |
| 31 | Characterization of Single Photons Using Two-Photon Interference. Advances in Atomic, Molecular and Optical Physics, 2006, 53, 253-289. | 2.3 | 42 |
| 32 | Vacuum-stimulated cooling of single atoms in three dimensions. Nature Physics, 2005, 1, 122-125. | 16.7 | 119 |
| 33 | Strongly Coupled Atom-Cavity Systems. , 2005, , 182-195. | | 2 |
| 34 | Submicron Positioning of Single Atoms in a Microcavity. Physical Review Letters, 2005, 95, 173602. | 7.8 | 121 |
| 35 | Transition from Antibunching to Bunching in Cavity QED. Physical Review Letters, 2005, 94, 053604. | 7.8 | 75 |
| 36 | COOLING AND TRAPPING IN CAVITY QUANTUM ELECTRODYNAMICS. , 2005, , . | | 0 |

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|---|---|---|---|
| 37 | Quantum Beat of Two Single Photons. Physical Review Letters, 2004, 93, 070503. | 7.8 | 233 |
| 38 | Photon statistics of a non-stationary periodically driven single-photon source. New Journal of Physics, 2004, 6, 86-86. | 2.9 | 33 |
| 39 | Time-resolved two-photon quantum interference. Applied Physics B: Lasers and Optics, 2003, 77, 797-802. | 2.2 | 138 |
| 40 | Counter-intuitive vacuum-stimulated raman scattering. Journal of Modern Optics, 2003, 50, 935-942. | 1.3 | 8 |
| 41 | Kuhn, Hennrich, and Rempe Reply:. Physical Review Letters, 2003, 90, . | 7.8 | 4 |
| 42 | Counter-intuitive vacuum-stimulated Raman scattering. Journal of Modern Optics, 2003, 50, 935-942. | 1.3 | 1 |
| 43 | Deterministic Single-Photon Source for Distributed Quantum Networking. Physical Review Letters, 2002, 89, 067901. | 7.8 | 705 |
| 44 | Vacuum-Stimulated Raman Scattering Based on Adiabatic Passage in a High-Finesse Optical Cavity. Physical Review Letters, 2000, 85, 4872-4875. | 7.8 | 228 |
| 45 | Neutral atoms prepared in Fock states of a one-dimensional harmonic potential. Physical Review A, 1999, 59, R8-R11. | 2.5 | 43 |
| 46 | Controlled generation of single photons from a strongly coupled atom-cavity system. Applied Physics B: Lasers and Optics, 1999, 69, 373-377. | 2.2 | 144 |
| 47 | Raman cooling of spin-polarized cesium atoms in a crossed dipole trap. Europhysics Letters, 1999, 46, 141-147. | 2.0 | 17 |
| 48 | Coherent population transfer in NO with pulsed lasers: the consequences of hyperfine structure, doppler broadening aaand electromagnetically induced absorption. European Physical Journal D, 1998, 1, 57-70. | 1.3 | 57 |
| 49 | Free expansion of a Bose-Einstein condensate from an Ioffe-Pritchard magnetic trap. Applied Physics B: Lasers and Optics, 1998, 67, 719-722. | 2.2 | 15 |
| 50 | Sideband cooling of neutral atoms in a far-detuned optical lattice. Europhysics Letters, 1998, 42, 395-400. | 2.0 | 84 |
| 51 | Efficient coherent population transfer in NO molecules using pulsed lasers. Physical Review Letters, 1993, 71, 3637-3640. | 7.8 | 206 |
| 52 | Population transfer by stimulated Raman scattering with delayed pulses using spectrally broad light. Journal of Chemical Physics, 1992, 96, 4215-4223. | 3.0 | 84 |
| 53 | Laser-induced population transfer in multistate systems: A comparative study. Physical Review A, 1992, 45, 5297-5300. | 2.5 | 118 |
| 54 | Angularly resolved rotational energy transfer in highly vibrationally excited states: Na2(v=31)â€“Ne. Journal of Chemical Physics, 1991, 94, 4252-4259. | 3.0 | 13 |

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| 55 | Population transfer by stimulated Raman scattering with delayed pulses and by the stimulated-emission pumping method: a comparative study. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1960. | 2.1 | 58 |