

Axel Kuhn

List of Publications by Year in descending order

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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	Deterministic Single-Photon Source for Distributed Quantum Networking. <i>Physical Review Letters</i> , 2002, 89, 067901.	7.8	705
2	Single-Atom Single-Photon Quantum Interface. <i>Science</i> , 2007, 317, 488-490.	12.6	414
3	A single-photon server with just one atom. <i>Nature Physics</i> , 2007, 3, 253-255.	16.7	263
4	Quantum Beat of Two Single Photons. <i>Physical Review Letters</i> , 2004, 93, 070503.	7.8	233
5	Vacuum-Stimulated Raman Scattering Based on Adiabatic Passage in a High-Finesse Optical Cavity. <i>Physical Review Letters</i> , 2000, 85, 4872-4875.	7.8	228
6	Efficient coherent population transfer in NO molecules using pulsed lasers. <i>Physical Review Letters</i> , 1993, 71, 3637-3640.	7.8	206
7	Controlled generation of single photons from a strongly coupled atom-cavity system. <i>Applied Physics B: Lasers and Optics</i> , 1999, 69, 373-377.	2.2	144
8	Time-resolved two-photon quantum interference. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 797-802.	2.2	138
9	Submicron Positioning of Single Atoms in a Microcavity. <i>Physical Review Letters</i> , 2005, 95, 173602.	7.8	121
10	Vacuum-stimulated cooling of single atoms in three dimensions. <i>Nature Physics</i> , 2005, 1, 122-125.	16.7	119
11	Laser-induced population transfer in multistate systems: A comparative study. <i>Physical Review A</i> , 1992, 45, 5297-5300.	2.5	118
12	Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 202001.	1.5	108
13	Population transfer by stimulated Raman scattering with delayed pulses using spectrally broad light. <i>Journal of Chemical Physics</i> , 1992, 96, 4215-4223.	3.0	84
14	Sideband cooling of neutral atoms in a far-detuned optical lattice. <i>Europhysics Letters</i> , 1998, 42, 395-400.	2.0	84
15	Transition from Antibunching to Bunching in Cavity QED. <i>Physical Review Letters</i> , 2005, 94, 053604.	7.8	75
16	Cavity-based single-photon sources. <i>Contemporary Physics</i> , 2010, 51, 289-313.	1.8	71
17	Single photons made-to-measure. <i>New Journal of Physics</i> , 2010, 12, 063024.	2.9	65
18	Highly efficient source for indistinguishable single photons of controlled shape. <i>New Journal of Physics</i> , 2011, 13, 103036.	2.9	61

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19	Population transfer by stimulated Raman scattering with delayed pulses and by the stimulated-emission pumping method: a comparative study. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990, 7, 1960.	2.1	58
20	Coherent population transfer in NO with pulsed lasers: the consequences of hyperfine structure, doppler broadening and electromagnetically induced absorption. <i>European Physical Journal D</i> , 1998, 1, 57-70.	1.3	57
21	Single-photon absorption in coupled atom-cavity systems. <i>Physical Review A</i> , 2012, 85, .	2.5	57
22	Control and manipulation of cold atoms in optical tweezers. <i>New Journal of Physics</i> , 2012, 14, 073051.	2.9	56
23	Photonic qubits, qutrits and ququads accurately prepared and delivered on demand. <i>New Journal of Physics</i> , 2013, 15, 053007.	2.9	55
24	Neutral atoms prepared in Fock states of a one-dimensional harmonic potential. <i>Physical Review A</i> , 1999, 59, R8-R11.	2.5	43
25	Characterization of Single Photons Using Two-Photon Interference. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2006, 53, 253-289.	2.3	42
26	Single-atom trapping and transport in DMD-controlled optical tweezers. <i>New Journal of Physics</i> , 2018, 20, 023013.	2.9	35
27	Photon statistics of a non-stationary periodically driven single-photon source. <i>New Journal of Physics</i> , 2004, 6, 86-86.	2.9	33
28	Raman cooling of spin-polarized cesium atoms in a crossed dipole trap. <i>Europhysics Letters</i> , 1999, 46, 141-147.	2.0	17
29	Free expansion of a Bose-Einstein condensate from an Ioffe-Pritchard magnetic trap. <i>Applied Physics B: Lasers and Optics</i> , 1998, 67, 719-722.	2.2	15
30	Angularly resolved rotational energy transfer in highly vibrationally excited states: $\text{Na}_2(v=31) \rightarrow \text{Ne}$. <i>Journal of Chemical Physics</i> , 1991, 94, 4252-4259.	3.0	13
31	Scheme for generating a sequence of single photons of alternating polarization. <i>Journal of Modern Optics</i> , 2007, 54, 1569-1580.	1.3	13
32	Time-resolved and state-selective detection of single freely falling atoms. <i>Optics Communications</i> , 2006, 264, 271-277.	2.1	12
33	Spatial light modulators for the manipulation of individual atoms. <i>Applied Physics B: Lasers and Optics</i> , 2011, 102, 443-450.	2.2	12
34	EIT-based quantum memory for single photons from cavity-QED. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 579-589.	2.2	12
35	Quantum Logic with Cavity Photons From Single Atoms. <i>Physical Review Letters</i> , 2016, 117, 023602.	7.8	11
36	Polarization Oscillations in Birefringent Emitter-Cavity Systems. <i>Physical Review Letters</i> , 2019, 122, 083602.	7.8	10

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37	Pushing Purcell enhancement beyond its limits. <i>New Journal of Physics</i> , 2020, 22, 063013.	2.9	9
38	Counter-intuitive vacuum-stimulated raman scattering. <i>Journal of Modern Optics</i> , 2003, 50, 935-942.	1.3	8
39	Coherent imaging of extended objects. <i>Optics Communications</i> , 2009, 282, 465-472.	2.1	8
40	Nonlinear Zeeman effects in the cavity-enhanced emission of polarised photons. <i>New Journal of Physics</i> , 2018, 20, 073030.	2.9	8
41	Cavity Induced Interfacing of Atoms and Light. <i>Nano-optics and Nanophotonics</i> , 2015, , 3-38.	0.2	6
42	Multimode interferometry for entangling atoms in quantum networks. <i>Quantum Science and Technology</i> , 2019, 4, 025008.	5.8	5
43	Kuhn, Hennrich, and Rempe Reply:. <i>Physical Review Letters</i> , 2003, 90, .	7.8	4
44	Single Emitters in Isolated Quantum Systems. <i>Experimental Methods in the Physical Sciences</i> , 2013, 45, 467-539.	0.1	4
45	Benchmarking modern algorithms to holographically create optical tweezers for laser-cooled atoms. <i>Journal of Modern Optics</i> , 2018, 65, 2133-2141.	1.3	4
46	Light-matter interaction in open cavities with dielectric stacks. <i>Applied Physics Letters</i> , 2021, 118, 154002.	3.3	4
47	How to administer an antidote to Schrödinger's cat. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 054001.	1.5	3
48	Strongly Coupled Atom-Cavity Systems. , 2005, , 182-195.		2
49	Quantum networking with time-bin encoded qu-d-its using single photons emitted on demand from an atom-cavity system. , 2013, , .		1
50	Qubits, qutrits, and ququads stored in single photons from an atom-cavity system. , 2015, , .		1
51	Counter-intuitive vacuum-stimulated Raman scattering. <i>Journal of Modern Optics</i> , 2003, 50, 935-942.	1.3	1
52	Atom-Photon Entanglement in a Cavity. , 2007, , .		0
53	Quantum memories for single photons from cavity-QED. , 2011, , .		0
54	COOLING AND TRAPPING IN CAVITY QUANTUM ELECTRODYNAMICS. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
55	Implementation of Atom-Photon Interfaces for Quantum Networking. , 2010, , .		0