

Markus Hennrich

List of Publications by Year in descending order

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citations

172457

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63
all docs

63
docs citations

63
times ranked

4780
citing authors

#	ARTICLE	IF	CITATIONS
1	14-Qubit Entanglement: Creation and Coherence. Physical Review Letters, 2011, 106, 130506.	7.8	853
2	An open-system quantum simulator with trapped ions. Nature, 2011, 470, 486-491.	27.8	823
3	Deterministic Single-Photon Source for Distributed Quantum Networking. Physical Review Letters, 2002, 89, 067901.	7.8	705
4	Universal Digital Quantum Simulation with Trapped Ions. Science, 2011, 334, 57-61.	12.6	483
5	Quantum computations on a topologically encoded qubit. Science, 2014, 345, 302-305.	12.6	289
6	Realization of the Quantum Toffoli Gate with Trapped Ions. Physical Review Letters, 2009, 102, 040501.	7.8	270
7	Experimental Repetitive Quantum Error Correction. Science, 2011, 332, 1059-1061.	12.6	260
8	A quantum information processor with trapped ions. New Journal of Physics, 2013, 15, 123012.	2.9	235
9	Quantum Beat of Two Single Photons. Physical Review Letters, 2004, 93, 070503.	7.8	233
10	Vacuum-Stimulated Raman Scattering Based on Adiabatic Passage in a High-Finesse Optical Cavity. Physical Review Letters, 2000, 85, 4872-4875.	7.8	228
11	Quantum simulation of dynamical maps with trapped ions. Nature Physics, 2013, 9, 361-367.	16.7	175
12	Experimental multiparticle entanglement dynamics induced by decoherence. Nature Physics, 2010, 6, 943-946.	16.7	152
13	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
14	Heralded single-photon absorption by a single Atom. Nature Physics, 2011, 7, 17-20.	16.7	89
15	Realization of Universal Ion-Trap Quantum Computation with Decoherence-Free Qubits. Physical Review Letters, 2009, 103, 200503.	7.8	77
16	Transition from Antibunching to Bunching in Cavity QED. Physical Review Letters, 2005, 94, 053604.	7.8	75
17	Atom-Atom Entanglement by Single-Photon Detection. Physical Review Letters, 2013, 110, 083603.	7.8	64
18	Demonstration of genuine multipartite entanglement with device-independent witnesses. Nature Physics, 2013, 9, 559-562.	16.7	60

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19	Deterministic entanglement swapping with an ion-trap quantum computer. <i>Nature Physics</i> , 2008, 4, 839-842.	16.7	59
20	Can different quantum state vectors correspond to the same physical state? An experimental test. <i>New Journal of Physics</i> , 2016, 18, 013007.	2.9	54
21	Quantum interference from remotely trapped ions. <i>New Journal of Physics</i> , 2009, 11, 013032.	2.9	53
22	Single Atom as a Mirror of an Optical Cavity. <i>Physical Review Letters</i> , 2011, 107, 133002.	7.8	52
23	Submicrosecond entangling gate between trapped ions via Rydberg interaction. <i>Nature</i> , 2020, 580, 345-349.	27.8	50
24	Electromagnetically Induced Transparency from a Single Atom in Free Space. <i>Physical Review Letters</i> , 2010, 105, 153604.	7.8	49
25	Pure single photons from a trapped atom source. <i>New Journal of Physics</i> , 2016, 18, 093038.	2.9	46
26	Coherent Control of a Single Trapped Rydberg Ion. <i>Physical Review Letters</i> , 2017, 119, 220501.	7.8	45
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	Photon-mediated interaction between two distant atoms. <i>Physical Review A</i> , 2008, 78, .	2.5	33
29	Single Strontium Rydberg Ion Confined in a Paul Trap. <i>Physical Review X</i> , 2017, 7, .	8.9	32
30	Bandwidth-Tunable Single-Photon Source in an Ion-Trap Quantum Network. <i>Physical Review Letters</i> , 2009, 103, 213601.	7.8	30
31	Long-Range Multibody Interactions and Three-Body Antiblockade in a Trapped Rydberg Ion Chain. <i>Physical Review Letters</i> , 2020, 125, 133602.	7.8	28
32	QED with a spherical mirror. <i>Physical Review A</i> , 2010, 82, .	2.5	26
33	Interferometric thermometry of a single sub-Doppler-cooled atom. <i>Physical Review A</i> , 2012, 85, .	2.5	21
34	Ultrafast Photochromic Reactions of Fulgide Photoswitches. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 430, 15-21.	0.9	20
35	Tracking the Dynamics of an Ideal Quantum Measurement. <i>Physical Review Letters</i> , 2020, 124, 080401.	7.8	18
36	A diode laser stabilization scheme for $^{40}\text{Ca}^{+}$ single-ion spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 115401.	1.5	17

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37	Resonant interaction of a single atom with single photons from a down-conversion source. Physical Review A, 2010, 81, .	2.5	16
38	Undoing a Quantum Measurement. Physical Review Letters, 2013, 110, 070403.	7.8	16
39	Photoswitching Intramolecular Energy and Charge Transfer. Molecular Crystals and Liquid Crystals, 2000, 344, 145-150.	0.3	13
40	Exploring the Many-Body Dynamics Near a Conical Intersection with Trapped Rydberg Ions. Physical Review Letters, 2021, 126, 233404.	7.8	13
41	Time-resolved and state-selective detection of single freely falling atoms. Optics Communications, 2006, 264, 271-277.	2.1	12
42	Two-color photoionization of calcium using SHG and LED light. Applied Physics B: Lasers and Optics, 2010, 100, 765-771.	2.2	11
43	Entanglement measures in ion-trap quantum simulators without full tomography. Physical Review A, 2014, 90, .	2.5	9
44	Trapped Rydberg ions: A new platform for quantum information processing. Advances in Atomic, Molecular and Optical Physics, 2020, 69, 233-306.	2.3	9
45	Counter-intuitive vacuum-stimulated raman scattering. Journal of Modern Optics, 2003, 50, 935-942.	1.3	8
46	Highly Polarizable Rydberg Ion in a Paul Trap. Physical Review Letters, 2019, 123, 153602.	7.8	8
47	Experimental Characterization of Quantum Dynamics Through Many-Body Interactions. Physical Review Letters, 2013, 110, 060403.	7.8	7
48	Kuhn, Hennrich, and Rempe Reply:. Physical Review Letters, 2003, 90, .	7.8	4
49	Ca+quantum bits for quantum information processing. Physica Scripta, 2009, T137, 014008.	2.5	4
50	Micromotion minimization using Ramsey interferometry. New Journal of Physics, 2021, 23, 123028.	2.9	3
51	Observation of second- and higher-order electric quadrupole interactions with an atomic ion. Physical Review Research, 2021, 3, .	3.6	2
52	Free Space Interference Experiments with Single Photons and Single Ions. Nano-optics and Nanophotonics, 2015, , 99-124.	0.2	2
53	Counter-intuitive vacuum-stimulated Raman scattering. Journal of Modern Optics, 2003, 50, 935-942.	1.3	1
54	A single ion interacting with single spontaneous parametric down-conversion photons. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Interaction of a Single Trapped Ion with Heralded Single Photons. , 2010, , .		0
56	Experimental repetitive quantum error correction with trapped ions. , 2011, , .		0
57	Free space coupling to a single ion. , 2011, , .		0
58	Coherent rydberg excitation of a single trapped ion. , 2017, , .		0
59	Interacting Rydberg Ions. , 2019, , .		0
60	Single Photon Source for an Ion Trap Quantum Network. , 2009, , .		0
61	Quantum Information with Trapped Ions. , 2009, , .		0