

Atsushi Noguchi

List of Publications by Year in descending order

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34
papers

2,534
citations

331670

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32
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34
all docs

34
docs citations

34
times ranked

2138
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting acousto-optic phase modulator. <i>Optics Express</i> , 2021, 29, 14151.	3.4	3
2	Breaking the trade-off between fast control and long lifetime of a superconducting qubit. <i>Nature Communications</i> , 2020, 11, 3683.	12.8	16
3	Dissipation-Based Quantum Sensing of Magnons with a Superconducting Qubit. <i>Physical Review Letters</i> , 2020, 125, 117701.	7.8	73
4	Fast parametric two-qubit gates with suppressed residual interaction using the second-order nonlinearity of a cubic transmon. <i>Physical Review A</i> , 2020, 102, .	2.5	38
5	Radio-frequency-to-optical conversion using acoustic and optical whispering-gallery modes. <i>Physical Review A</i> , 2020, 101, .	2.5	7
6	Single-photon quantum regime of artificial radiation pressure on a surface acoustic wave resonator. <i>Nature Communications</i> , 2020, 11, 1183.	12.8	16
7	Helicity-Changing Brillouin Light Scattering by Magnons in a Ferromagnetic Crystal. <i>Physical Review Letters</i> , 2019, 123, 207401.	7.8	29
8	Brillouin Light Scattering by Magnetic Quasivortices in Cavity Optomagnonics. <i>Physical Review Letters</i> , 2018, 120, 133602.	7.8	109
9	Information-to-work conversion by Maxwell's demon in a superconducting circuit quantum electro-dynamical system. <i>Nature Communications</i> , 2018, 9, 1291.	12.8	96
10	Quantum non-demolition detection of an itinerant microwave photon. <i>Nature Physics</i> , 2018, 14, 546-549.	16.7	109
11	Electro-mechano-optical detection of nuclear magnetic resonance. <i>Optica</i> , 2018, 5, 152.	9.3	22
12	Cavity Enhancement of Anti-Stokes Scattering via Optomechanical Coupling with Surface Acoustic Waves. <i>Physical Review Applied</i> , 2018, 10, .	3.8	12
13	Surface-electrode trap with an integrated permanent magnet for generating a magnetic-field gradient at trapped ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 025501.	1.5	5
14	Qubit-Assisted Transduction for a Detection of Surface Acoustic Waves near the Quantum Limit. <i>Physical Review Letters</i> , 2017, 119, 180505.	7.8	72
15	Resolving quanta of collective spin excitations in a millimeter-sized ferromagnet. <i>Science Advances</i> , 2017, 3, e1603150.	10.3	225
16	Quantum magnonics: The magnon meets the superconducting qubit. <i>Comptes Rendus Physique</i> , 2016, 17, 729-739.	0.9	122
17	Ground state cooling of a quantum electromechanical system with a silicon nitride membrane in a 3D loop-gap cavity. <i>New Journal of Physics</i> , 2016, 18, 103036.	2.9	36
18	Cavity Optomagnonics with Spin-Orbit Coupled Photons. <i>Physical Review Letters</i> , 2016, 116, 223601.	7.8	296

#	ARTICLE	IF	CITATIONS
19	Bidirectional conversion between microwave and light via ferromagnetic magnons. <i>Physical Review B</i> , 2016, 93, .	3.2	302
20	Quantum Simulation with Trapped Ions—Experimental Realization of the Jaynes-Cummings-Hubbard Model—. <i>Lecture Notes in Physics</i> , 2016, , 325-340.	0.7	0
21	Coherent coupling between a ferromagnetic magnon and a superconducting qubit. <i>Science</i> , 2015, 349, 405-408.	12.6	542
22	Hong—Ou—Mandel interference of two phonons in trapped ions. <i>Nature</i> , 2015, 527, 74-77.	27.8	74
23	Novel laser machining of optical fibers for long cavities with low birefringence. <i>Optics Express</i> , 2014, 22, 31317.	3.4	35
24	Aharonov—Bohm effect in the tunnelling of a quantum rotor in a linear Paul trap. <i>Nature Communications</i> , 2014, 5, 3868.	12.8	48
25	Experimental Realization of a Quantum Phase Transition of Polaritonic Excitations. <i>Physical Review Letters</i> , 2013, 111, 160501.	7.8	60
26	Quantum simulation of the Jaynes-Cummings-Hubbard model using trapped ions. , 2013, , .		0
27	Realization of holonomic single-qubit operations. <i>Physical Review A</i> , 2013, 87, .	2.5	52
28	Generation of a Decoherence-Free Entangled State Using a Radio-Frequency Dressed State. <i>Physical Review Letters</i> , 2012, 108, 060503.	7.8	12
29	Observation of phonon hopping in radial vibrational modes of trapped ions. <i>Physical Review A</i> , 2012, 85, .	2.5	33
30	All-optical transport and compression of ytterbium atoms into the surface of a solid immersion lens. <i>Physical Review A</i> , 2012, 86, .	2.5	7
31	Generation of Dicke States with Phonon-Mediated Multilevel Stimulated Raman Adiabatic Passage. <i>Physical Review Letters</i> , 2012, 109, 260502.	7.8	31
32	Projective Measurement of a Single Nuclear Spin Qubit by Using Two-Mode Cavity QED. <i>Physical Review Letters</i> , 2011, 106, 160501.	7.8	27
33	Quantum-state tomography of a single nuclear spin qubit of an optically manipulated ytterbium atom. <i>Physical Review A</i> , 2011, 84, .	2.5	16
34	Faraday rotation with a single-nuclear-spin qubit in a high-finesse optical cavity. <i>Physical Review A</i> , 2010, 81, .	2.5	9