

# Shumpei Masuda

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,015  
citations

516710

16  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acceleration and deceleration of quantum dynamics based on inter-trajectory travel with fast-forward scaling theory. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
2	Quantum Gate for a Kerr Nonlinear Parametric Oscillator Using Effective Excited States. <i>Physical Review Applied</i> , 2022, 18, .	3.8	10
3	Controls of a superconducting quantum parametron under a strong pump field. <i>Scientific Reports</i> , 2021, 11, 11459.	3.3	17
4	Theoretical study of reflection spectroscopy for superconducting quantum parametrons. <i>New Journal of Physics</i> , 2021, 23, 093023.	2.9	7
5	Effects of higher levels of qubits on control of qubit protected by a Josephson quantum filter. <i>New Journal of Physics</i> , 2021, 23, 013006.	2.9	1
6	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
7	Theoretical Study on Spin-Selective Coherent Electron Transfer in a Quantum Dot Array. <i>Universe</i> , 2020, 6, 2.	2.5	2
8	Calibration of cryogenic amplification chains using normal-metal-insulator-superconductor junctions. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	11
9	Nonreciprocal microwave transmission based on Gebhard-Ruckenstein hopping. <i>Physical Review A</i> , 2019, 99, .	2.5	2
10	Fast control of dissipation in a superconducting resonator. <i>Applied Physics Letters</i> , 2019, 115, 082601.	3.3	19
11	Broadband Lamb shift in an engineered quantum system. <i>Nature Physics</i> , 2019, 15, 533-537.	16.7	26
12	Flux-tunable heat sink for quantum electric circuits. <i>Scientific Reports</i> , 2018, 8, 6325.	3.3	26
13	Spin-selective electron transfer in a quantum dot array. <i>Physical Review B</i> , 2018, 97, .	3.2	8
14	Fast-forward scaling theory for phase imprinting on a BEC: creation of a wave packet with uniform momentum density and loading to Bloch states without disturbance. <i>New Journal of Physics</i> , 2018, 20, 025008.	2.9	6
15	Observation of microwave absorption and emission from incoherent electron tunneling through a normal-metal-insulator-superconductor junction. <i>Scientific Reports</i> , 2018, 8, 3966.	3.3	13
16	Quantum-circuit refrigerator. <i>Nature Communications</i> , 2017, 8, 15189.	12.8	85
17	Counterdiabatic vortex pump in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2017, 95, .	2.5	10
18	Theory of quantum-circuit refrigeration by photon-assisted electron tunneling. <i>Physical Review B</i> , 2017, 96, .	3.2	27

#	ARTICLE	IF	CITATIONS
19	Quantum knots in Bose-Einstein condensates created by counterdiabatic control. <i>Physical Review A</i> , 2017, 96, .	2.5	5
20	Fast forward of the adiabatic spin dynamics of entangled states. <i>Physical Review A</i> , 2017, 96, .	2.5	23
21	Fast forward of adiabatic control of tunneling states. <i>Physical Review A</i> , 2017, 95, .	2.5	13
22	Controlling Quantum Dynamics with Assisted Adiabatic Processes. <i>Advances in Chemical Physics</i> , 2016, , 51-136.	0.3	5
23	Fast control of topological vortex formation in Bose-Einstein condensates by counterdiabatic driving. <i>Physical Review A</i> , 2016, 93, .	2.5	13
24	A model study of assisted adiabatic transfer of population in the presence of collisional dephasing. <i>Journal of Chemical Physics</i> , 2015, 142, 244303.	3.0	12
25	Rotation of the Orientation of the Wave Function Distribution of a Charged Particle and its Utilization. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11079-11088.	2.6	14
26	Fast-Forward Assisted STIRAP. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3479-3487.	2.5	61
27	Selective Vibrational Population Transfer using Combined Stimulated Raman Adiabatic Passage and Counter-Diabatic Fields. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14513-14523.	3.1	21
28	Rapid coherent control of population transfer in lattice systems. <i>Physical Review A</i> , 2014, 89, .	2.5	24
29	High-Fidelity Rapid Ground-State Loading of an Ultracold Gas into an Optical Lattice. <i>Physical Review Letters</i> , 2014, 113, 063003.	7.8	61
30	Quantum and classical chaos of a two-spinless-fermion system in a quantum wire. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 355101.	2.1	0
31	Quantum state protection by successive translation. <i>Physical Review A</i> , 2013, 88, .	2.5	6
32	Acceleration of adiabatic transport of interacting particles and rapid manipulations of a dilute Bose gas in the ground state. <i>Physical Review A</i> , 2012, 86, .	2.5	29
33	Interference effects of helical current: Geometry-dependent spin polarization of transmitted electrons. <i>Physical Review B</i> , 2012, 85, .	3.2	7
34	Molecular dynamics study of size effect on surface tension of metal droplets. <i>European Physical Journal D</i> , 2011, 61, 637-644.	1.3	7
35	Acceleration of adiabatic quantum dynamics in electromagnetic fields. <i>Physical Review A</i> , 2011, 84, .	2.5	125
36	Fast-forward of adiabatic dynamics in quantum mechanics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 1135-1154.	2.1	184

#	ARTICLE	IF	CITATIONS
37	Fast-forward problem in quantum mechanics. <i>Physical Review A</i> , 2008, 78, .	2.5	93
38	Mesoscopic rectification in a quantum dot with spin-orbit interaction. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 216225.	1.8	2