

Katsuhiko Nakamura

List of Publications by Year in descending order

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29
papers

641
citations

933447

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642732

23
g-index

29
all docs

29
docs citations

29
times ranked

284
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast-forward of adiabatic dynamics in quantum mechanics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 1135-1154.	2.1	184
2	Acceleration of adiabatic quantum dynamics in electromagnetic fields. Physical Review A, 2011, 84, .	2.5	125
3	Fast-forward problem in quantum mechanics. Physical Review A, 2008, 78, .	2.5	93
4	High-Fidelity Rapid Ground-State Loading of an Ultracold Gas into an Optical Lattice. Physical Review Letters, 2014, 113, 063003.	7.8	61
5	Fast forward of the adiabatic spin dynamics of entangled states. Physical Review A, 2017, 96, .	2.5	23
6	Semiclassical Analysis of the Ballistic Weak Localization in Chaotic Billiards: Role of Partially Time-Reversed Pairs of Paths. Journal of the Physical Society of Japan, 1997, 66, 2977-2980.	1.6	21
7	Fast-forward approach to stochastic heat engine. Physical Review E, 2020, 102, 012129.	2.1	20
8	Al'tshuler-Aronov-Spivak Effect in Ballistic Chaotic Aharonov-Bohm Billiards. Journal of the Physical Society of Japan, 1996, 65, 3708-3711.	1.6	19
9	Fast forward of adiabatic control of tunneling states. Physical Review A, 2017, 95, .	2.5	13
10	Scheme for accelerating quantum tunneling dynamics. Physical Review A, 2016, 93, .	2.5	12
11	Dynamical Behaviors of Spin-Peierls Transition: 1-DS=1/2XY Antiferromagnets. Journal of the Physical Society of Japan, 1997, 66, 839-849.	1.6	10
12	Fast-forward approach to adiabatic quantum dynamics of regular spin clusters: Nature of geometry-dependent driving interactions. Physical Review A, 2019, 99, .	2.5	9
13	Bernoulli's formula and Poisson's equations for a confined quantum gas: Effects due to a moving piston. Physical Review E, 2012, 86, 061128.	2.1	8
14	Dynamics of inertial vortices in multicomponent Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	8
15	Influence of Small-Angle Diffraction on the Ballistic Conductance Fluctuations in Chaotic Billiards. Journal of the Physical Society of Japan, 1998, 67, 397-400.	1.6	7
16	Quantum gas in the fast forward scheme of adiabatically expanding cavities: Force and equation of state. Physical Review E, 2018, 97, 042104.	2.1	6
17	Magnetoconductance in Open Stadium Billiard: Quantum Analogue of Transition from Chaos to Tori. Journal of the Physical Society of Japan, 1994, 63, 3210-3213.	1.6	5
18	Ballistic Conductance Fluctuation and Quantum Chaos in Sinai Billiard. Journal of the Physical Society of Japan, 1997, 66, 712-716.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Self-Similar Magnetoconductance Fluctuations Induced by Self-Similar Periodic Orbits. Journal of the Physical Society of Japan, 2002, 71, 2090-2093.	1.6	4
20	A Model for Conservative Chaos Constructed from Multicomponent Bose-Einstein Condensates with a Trap in Two Dimensions. Journal of the Physical Society of Japan, 2005, 74, 1887-1890.	1.6	3
21	Influence of Electromagnetic Environment on Tunneling Current through Normal Metal-Superconductor Junctions. Journal of the Physical Society of Japan, 1995, 64, 4530-4534.	1.6	2
22	Chaos-Induced Breaking of the Franck-Condon Approximation for Transition Spectra in Jahn-Teller Systems. Journal of the Physical Society of Japan, 2004, 73, 1415-1418.	1.6	2
23	Dynamics of Macroscopic Wave Packet Passing through Double Slits: Role of Gravity and Nonlinearity. Journal of the Physical Society of Japan, 2005, 74, 2647-2650.	1.6	2
24	Dynamics of Quantized Photon and Electron Field in Semiconductor Multi-Subbands Superlattices. Journal of the Physical Society of Japan, 2002, 71, 2891-2897.	1.6	0
25	Lead-Induced Wave Function Scarring in Weakly Open Chaotic Quantum Dots. Journal of the Physical Society of Japan, 2003, 72, 1821-1823.	1.6	0
26	Recent Progress in Quantum Optics. Quantum Chaos: Semiclassical Theory and Quantum Transport. The Review of Laser Engineering, 2000, 28, 656-662.	0.0	0
27	Area Distribution and Quantum Interference Effect in Antidot Lattices. Journal of the Physical Society of Japan, 2000, 69, 3366-3370.	1.6	0
28	QUANTUM TRANSPORT IN QUANTUM BILLIARDS: FROM KELVIN THROUGH ARNOLD. , 2003, , .		0
29	Origin of Quasiperiodicity in Conductance Fluctuations of Soft-Walled Chaotic Quantum Dots. Journal of the Physical Society of Japan, 2003, 72, 1595-1598.	1.6	0