

Jozsef Zsolt Bernad

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

235
citations

1040056

9
h-index

1058476

14
g-index

33
all docs

33
docs citations

33
times ranked

258
citing authors

#	ARTICLE	IF	CITATIONS
1	Features due to spin-orbit coupling in the optical conductivity of single-layer graphene. Physical Review B, 2010, 81, .	3.2	23
2	Quantum teleportation and entanglement swapping of matter qubits with coherent multiphoton states. Physical Review A, 2014, 90, .	2.5	22
3	QED with a parabolic mirror. Physical Review A, 2013, 88, .	2.5	21
4	Quest for Quantum Superpositions of a Mirror: High and Moderately Low Temperatures. Physical Review Letters, 2006, 97, 250404.	7.8	20
5	Optimal estimation of the optomechanical coupling strength. Physical Review A, 2018, 97, .	2.5	13
6	Unambiguous atomic Bell measurement assisted by multiphoton states. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	12
7	Fisher-information-based estimation of optomechanical coupling strengths. Physical Review A, 2020, 102, .	2.5	11
8	Theory of a double-dot charge detector. Physical Review B, 2006, 73, .	3.2	10
9	Multiphoton-state-assisted entanglement purification of material qubits. Physical Review A, 2016, 93, .	2.5	10
10	Measurement-induced chaos and quantum state discrimination in an iterated Tavis-Cummings scheme. Physical Review A, 2017, 95, .	2.5	10
11	Effects of a quantum measurement on the electric conductivity: Application to graphene. Physical Review B, 2010, 81, .	3.2	9
12	Photon-assisted entanglement creation by minimum-error generalized quantum measurements in the strong-coupling regime. Physical Review A, 2013, 87, .	2.5	9
13	Hybrid quantum repeater based on resonant qubit-field interactions. Physical Review A, 2017, 96, .	2.5	8
14	Positivity violations of the density operator in the Caldeira-Leggett master equation. European Physical Journal D, 2019, 73, 1.	1.3	8
15	Centre-of-mass motion-induced decoherence and entanglement generation in a hybrid quantum repeater. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235501.	1.5	6
16	Partly invariant steady state of two interacting open quantum systems. Physical Review A, 2015, 92, .	2.5	5
17	Conditions for entanglement purification with general two-qubit states. Physical Review A, 2016, 94, .	2.5	5
18	Optimal estimation of matter-field coupling strength in the dipole approximation. Physical Review A, 2019, 99, .	2.5	5

#	ARTICLE	IF	CITATIONS
19	Range of applicability of the Hu-Paz-Zhang master equation. <i>Physical Review A</i> , 2020, 102, .	2.5	5
20	Application of continuous measurement theory to the current through quantum dots. <i>Physical Review B</i> , 2008, 77, .	3.2	4
21	An entropy production based method for determining the position diffusion's coefficient of a quantum Brownian motion. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	4
22	Generation of entangled matter qubits in two opposing parabolic mirrors. <i>Physical Review A</i> , 2014, 90, .	2.5	3
23	Dynamical control of quantum systems in the context of mean ergodic theorems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 065303.	2.1	3
24	Entanglement in bipartite quantum systems: Euclidean volume ratios and detectability by Bell inequalities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	3
25	Effects of stochastic noise on dynamical decoupling procedures. <i>Physical Review A</i> , 2014, 89, .	2.5	2
26	Optical conductivity of single-layer graphene induced by temporal mass-gap fluctuations. <i>Physica B: Condensed Matter</i> , 2012, 407, 4446-4452.	2.7	1
27	Double detected spin-dependent quantum dot. <i>Physica B: Condensed Matter</i> , 2012, 407, 2794-2802.	2.7	1
28	Product formulas in the framework of mean ergodic theorems. <i>Advances in Operator Theory</i> , 2020, 5, 15-26.	0.6	1
29	On the limit relation for the quantum relative entropy. <i>Journal of Mathematical Physics</i> , 2017, 58, 062202.	1.1	0
30	Estimation of disorders in the rest positions of two membranes in optomechanical systems. <i>Physical Review A</i> , 2022, 105, .	2.5	0