Fardin Kheirandish

List of Publications by Year
in descending order

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61 papers	556 citations	687363 13 h-index	642732 23 g-index
61 all docs	61 docs citations	61 times ranked	283 citing authors

#	Article	IF	Citations
1	Quantum thermodynamics of a trapped two-level atom in an external light field. European Physical Journal Plus, 2022, 137, 1.	2.6	0
2	Exact density matrix elements for a driven dissipative system described by a quadratic Hamiltonian. Scientific Reports, 2021, 11, 17388.	3.3	1
3	Quantum thermodynamics in the no-measurement scheme: driven two-level atom and harmonic oscillator. Physica Scripta, 2021, 96, 125119.	2.5	0
4	Radiation properties of an oscillating atom in the presence of external fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 035002.	1.5	0
5	The resource theory of coherence for quantum channels. Quantum Information Processing, 2020, 19, 1.	2.2	4
6	The transition rates of an isotropic quantum charged oscillator in the presence of external fields. International Journal of Modern Physics B, 2020, 34, 2050023.	2.0	0
7	Quantum dynamics of a driven damped harmonic oscillator in Heisenberg picture: exact results and possible generalizations. European Physical Journal Plus, 2020, 135, 1.	2.6	4
8	Many-body work distributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126296.	2.1	2
9	The quantum thermodynamic force responsible for quantum state transformation and the flow and backflow of information. Scientific Reports, 2019, 9, 8746.	3.3	5
10	Induced Casimir Force between Heavy Particles Substituted in an Oscillator Chain. Acta Physica Polonica A, 2019, 136, 66-71.	0.5	0
11	Hamiltonian of Mean Force and Dissipative Scalar Field Theory. International Journal of Theoretical Physics, 2018, 57, 1224-1234.	1.2	1
12	From Brownian Motion Formalism to Fluctuation-Induced Force in a General Fluctuating Medium. Fluctuation and Noise Letters, 2018, 17, 1850020.	1.5	0
13	A novel derivation of quantum propagator useful for time-dependent trapping and control. European Physical Journal Plus, 2018, 133, 1.	2.6	4
14	Quantum Theory of a Strongly-Dissipative Scalar Field. International Journal of Theoretical Physics, 2017, 56, 1249-1257.	1.2	1
15	Classical and quantum emitters near a metal surface. Laser Physics, 2017, 27, 045203.	1.2	1
16	On the localized quantum oscillators in a common heat bath. International Journal of Modern Physics B, 2017, 31, 1750122.	2.0	0
17	System Plus Reservoir Approach to Quantum Brownian Motion of a Rod-Like Particle. International Journal of Theoretical Physics, 2017, 56, 2140-2150.	1.2	0
18	Hamiltonian of mean force and a damped harmonic oscillator in an anisotropic medium. Laser Physics, 2017, 27, 015201.	1.2	1

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19	Surface plasmon polariton scattering by subwavelength silicon wires. Applied Optics, 2016, 55, 2375.	2.1	2
20	Dissipative Scalar Field Theory: A Covariant Formulation. International Journal of Theoretical Physics, 2016, 55, 432-439.	1.2	5
21	Energy-level shifts and the decay rate of an atom in the presence of a conducting wedge. Physical Review A, 2015, 92, .	2.5	9
22	Radiative heat transfer between a rotating nanoparticle and a plane surface. Physical Review A, 2015, 92, .	2.5	3
23	Optical trapping and control of a dielectric nanowire by a nanoaperture. Optics Letters, 2015, 40, 4807.	3.3	8
24	On oscillatorâ€“bath system: exact propagator, reduced density matrix and GreenÊ¼s function. Physica Scripta, 2015, 90, 025206.	2.5	0
25	Mutual information as an order parameter for quantum synchronization. Physical Review A, 2015, 91, .	2.5	99
26	Electromagnetic field quantization in the presence of a rotating body. Physical Review A, 2014, 89, .	2.5	3
27	Relativistic and Non-Relativistic Quantum Brownian Motion in an Anisotropic Dissipative Medium. International Journal of Theoretical Physics, 2014, 53, 2593-2615.	1.2	5
28	Entanglement Generation in a Two-Qubit System Coupled to Vacuum Electromagnetic Field. International Journal of Theoretical Physics, 2013, 52, 4403-4411.	1.2	2
29	Investigations of the torque anomaly in an annular sector. I. Global calculations, scalar case. Physical Review D, 2013, 88, .	4.7	8
30	Investigations of the torque anomaly in an annular sector. II. Global calculations, electromagnetic case. Physical Review D, 2013, 88, .	4.7	5
31	Perturbative approach to calculating the Casimir force in fluctuating scalar and vector fields. Physical Review A, 2012, 86, .	2.5	5
32	Graphene-Based Normal/Ferromagnetic/Normal Junction as a Polarizer. International Journal of Theoretical Physics, 2012, 51, 1989-1996.	1.2	4
33	Dissipative Driven Single-Band Tight-Binding Dynamics. International Journal of Theoretical Physics, 2012, 51, 1640-1646.	1.2	0
34	Finite-temperature electromagnetic-field quantization in a medium: The thermofield approach. Physical Review A, 2011, 84, .	2.5	2
35	Quantum field theory in the presence of a medium: Green's function expansions. Physical Review A, 2011, 84, .	2.5	9
36	Influence of dephasing on the entanglement teleportation via a two-qubit Heisenberg XYZ system. European Physical Journal D, 2011, 62, 439-447.	1.3	22

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37	Quantum Dynamics of a Harmonic Oscillator inÂaÂDeformed Bath. International Journal of Theoretical Physics, 2011, 50, 171-180.	1.2	4
38	Casimir force in presence of multi layer magnetodielectric slabs. Annals of Physics, 2011, 326, 657-667.	2.8	14
39	Casimir forces in multilayer magnetodielectrics with both gain and loss. Physical Review A, 2011, 84, .	2.5	24
40	Finite-temperature Casimir effect in the presence of nonlinear dielectrics. Physical Review A, 2011, 83, .	2.5	15
41	SHOT NOISE IN NORMAL-FERROMAGNETIC-NORMAL GRAPHENE. International Journal of Modern Physics B, 2011, 25, 3281-3288.	2.0	4
42	Non-equilibrium entanglement dynamics of a two-qubit Heisenberg XY system in the presence of an inhomogeneous magnetic field and spin-orbit interaction. European Physical Journal D, 2010, 57, 129-140.	1.3	13
43	Normal and lateral Casimir interactions between semi-infinite conductors in the presence of a dispersive medium. Physical Review A, 2010, 82, .	2.5	6
44	Finite-temperature Cherenkov radiation in the presence of a magnetodielectric medium. Physical Review A, 2010, 82, .	2.5	14
45	Casimir force in the presence of a medium. Physical Review A, 2010, 81, .	2.5	17
46	Electromagnetic field quantization in a nonlinear medium. , 2009, , .		0
47	Quantum Dynamics of a Dissipative Deformed HarmonicÂOscillator. International Journal of Theoretical Physics, 2009, 48, 693-699.	1.2	2
48	A canonical approach to electromagnetic field quantization in a nonhomogeneous and anisotropic magnetodielectric medium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 075504.	1.5	13
49	Effect of spin-orbit interaction on entanglement of two-qubit Heisenberg<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi><mml:mi>Z</mml:mi></mml:mrow></mml:math>systems in an inhomogeneous magnetic field. Physical Review A, 2008, 77, .	2.5	96
50	ELECTROMAGNETIC FIELD QUANTIZATION IN AN ANISOTROPIC AND INHOMOGENEOUS MAGNETODIELECTRIC MEDIUM. Modern Physics Letters A, 2008, 23, 2163-2176.	1.2	2
51	DRIVEN MESOSCOPIC ELECTRIC CIRCUITS. Modern Physics Letters B, 2008, 22, 51-60.	1.9	6
52	Dissipative Field Theory. , 2008, , .		0
53	Realization of a deformed parafermionic algebra. , 2008, , .		0
54	On the concept of local structures in curved space-times. , 2008, , .		0

#	Article	IF	Citations
55	Electromagnetic field quantization in an anisotropic magnetodielectric medium with spatialâ€“temporal dispersion. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 275402.	2.1	19
56	Extension of the Huttner-Barnett model to a magnetodielectric medium. Physical Review A, 2008, 78, .	2.5	28
57	Electromagnetic field quantization in a magnetodielectric medium with external charges. Physical Review A, 2007, 76, .	2.5	19
58	Electromagnetic field quantization in a linear polarizable and magnetizable medium. Physical Review A, 2006, 74, .	2.5	35
59	Minimal Coupling Method and the Dissipative Scalar Field Theory. International Journal of Theoretical Physics, 2006, 45, 30-43.	1.2	3
60	Quantum Charged Non-Linear Nano-String and Quantum Vacuum. International Journal of Theoretical Physics, 2005, 44, 1573-1585.	1.2	0
61	RADIATION REACTION AND QUANTUM DAMPED HARMONIC OSCILLATOR. Modern Physics Letters A, 2005, 20, 3025-3034.	1.2	7