

# 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	Mutual information as an order parameter for quantum synchronization. <i>Physical Review A</i> , 2015, 91, .	2.5	99
2	Effect of spin-orbit interaction on entanglement of two-qubit Heisenberg systems in an inhomogeneous magnetic field. <i>Physical Review A</i> , 2008, 77, .	2.5	96
3	Electromagnetic field quantization in a linear polarizable and magnetizable medium. <i>Physical Review A</i> , 2006, 74, .	2.5	35
4	Extension of the Huttner-Barnett model to a magnetodielectric medium. <i>Physical Review A</i> , 2008, 78, .	2.5	28
5	Casimir forces in multilayer magnetodielectrics with both gain and loss. <i>Physical Review A</i> , 2011, 84, .	2.5	24
6	Influence of dephasing on the entanglement teleportation via a two-qubit Heisenberg XYZ system. <i>European Physical Journal D</i> , 2011, 62, 439-447.	1.3	22
7	Electromagnetic field quantization in a magnetodielectric medium with external charges. <i>Physical Review A</i> , 2007, 76, .	2.5	19
8	Electromagnetic field quantization in an anisotropic magnetodielectric medium with spatial-temporal dispersion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 275402.	2.1	19
9	Casimir force in the presence of a medium. <i>Physical Review A</i> , 2010, 81, .	2.5	17
10	Finite-temperature Casimir effect in the presence of nonlinear dielectrics. <i>Physical Review A</i> , 2011, 83, .	2.5	15
11	Finite-temperature Cherenkov radiation in the presence of a magnetodielectric medium. <i>Physical Review A</i> , 2010, 82, .	2.5	14
12	Casimir force in presence of multi layer magnetodielectric slabs. <i>Annals of Physics</i> , 2011, 326, 657-667.	2.8	14
13	A canonical approach to electromagnetic field quantization in a nonhomogeneous and anisotropic magnetodielectric medium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 075504.	1.5	13
14	Non-equilibrium entanglement dynamics of a two-qubit Heisenberg XY system in the presence of an inhomogeneous magnetic field and spin-orbit interaction. <i>European Physical Journal D</i> , 2010, 57, 129-140.	1.3	13
15	Quantum field theory in the presence of a medium: Green's function expansions. <i>Physical Review A</i> , 2011, 84, .	2.5	9
16	Energy-level shifts and the decay rate of an atom in the presence of a conducting wedge. <i>Physical Review A</i> , 2015, 92, .	2.5	9
17	Investigations of the torque anomaly in an annular sector. I. Global calculations, scalar case. <i>Physical Review D</i> , 2013, 88, .	4.7	8
18	Optical trapping and control of a dielectric nanowire by a nanoaperture. <i>Optics Letters</i> , 2015, 40, 4807.	3.3	8

#	ARTICLE	IF	CITATIONS
19	RADIATION REACTION AND QUANTUM DAMPED HARMONIC OSCILLATOR. Modern Physics Letters A, 2005, 20, 3025-3034.	1.2	7
20	DRIVEN MESOSCOPIC ELECTRIC CIRCUITS. Modern Physics Letters B, 2008, 22, 51-60.	1.9	6
21	Normal and lateral Casimir interactions between semi-infinite conductors in the presence of a dispersive medium. Physical Review A, 2010, 82, .	2.5	6
22	Perturbative approach to calculating the Casimir force in fluctuating scalar and vector fields. Physical Review A, 2012, 86, .	2.5	5
23	Investigations of the torque anomaly in an annular sector. II. Global calculations, electromagnetic case. Physical Review D, 2013, 88, .	4.7	5
24	Relativistic and Non-Relativistic Quantum Brownian Motion in an Anisotropic Dissipative Medium. International Journal of Theoretical Physics, 2014, 53, 2593-2615.	1.2	5
25	Dissipative Scalar Field Theory: A Covariant Formulation. International Journal of Theoretical Physics, 2016, 55, 432-439.	1.2	5
26	The quantum thermodynamic force responsible for quantum state transformation and the flow and backflow of information. Scientific Reports, 2019, 9, 8746.	3.3	5
27	Quantum Dynamics of a Harmonic Oscillator in a Deformed Bath. International Journal of Theoretical Physics, 2011, 50, 171-180.	1.2	4
28	SHOT NOISE IN NORMAL-FERROMAGNETIC-NORMAL GRAPHENE. International Journal of Modern Physics B, 2011, 25, 3281-3288.	2.0	4
29	Graphene-Based Normal/Ferromagnetic/Normal Junction as a Polarizer. International Journal of Theoretical Physics, 2012, 51, 1989-1996.	1.2	4
30	A novel derivation of quantum propagator useful for time-dependent trapping and control. European Physical Journal Plus, 2018, 133, 1.	2.6	4
31	The resource theory of coherence for quantum channels. Quantum Information Processing, 2020, 19, 1.	2.2	4
32	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
33	Minimal Coupling Method and the Dissipative Scalar Field Theory. International Journal of Theoretical Physics, 2006, 45, 30-43.	1.2	3
34	Electromagnetic field quantization in the presence of a rotating body. Physical Review A, 2014, 89, .	2.5	3
35	Radiative heat transfer between a rotating nanoparticle and a plane surface. Physical Review A, 2015, 92, .	2.5	3
36	ELECTROMAGNETIC FIELD QUANTIZATION IN AN ANISOTROPIC AND INHOMOGENEOUS MAGNETODIELECTRIC MEDIUM. Modern Physics Letters A, 2008, 23, 2163-2176.	1.2	2

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37	Quantum Dynamics of a Dissipative Deformed Harmonic Oscillator. International Journal of Theoretical Physics, 2009, 48, 693-699.	1.2	2
38	Finite-temperature electromagnetic-field quantization in a medium: The thermofield approach. Physical Review A, 2011, 84, .	2.5	2
39	Entanglement Generation in a Two-Qubit System Coupled to Vacuum Electromagnetic Field. International Journal of Theoretical Physics, 2013, 52, 4403-4411.	1.2	2
40	Surface plasmon polariton scattering by subwavelength silicon wires. Applied Optics, 2016, 55, 2375.	2.1	2
41	Many-body work distributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126296.	2.1	2
42	Quantum Theory of a Strongly-Dissipative Scalar Field. International Journal of Theoretical Physics, 2017, 56, 1249-1257.	1.2	1
43	Classical and quantum emitters near a metal surface. Laser Physics, 2017, 27, 045203.	1.2	1
44	Hamiltonian of mean force and a damped harmonic oscillator in an anisotropic medium. Laser Physics, 2017, 27, 015201.	1.2	1
45	Hamiltonian of Mean Force and Dissipative Scalar Field Theory. International Journal of Theoretical Physics, 2018, 57, 1224-1234.	1.2	1
46	Exact density matrix elements for a driven dissipative system described by a quadratic Hamiltonian. Scientific Reports, 2021, 11, 17388.	3.3	1
47	Quantum Charged Non-Linear Nano-String and Quantum Vacuum. International Journal of Theoretical Physics, 2005, 44, 1573-1585.	1.2	0
48	Dissipative Field Theory. , 2008, , .		0
49	Realization of a deformed parafermionic algebra. , 2008, , .		0
50	On the concept of local structures in curved space-times. , 2008, , .		0
51	Electromagnetic field quantization in a nonlinear medium. , 2009, , .		0
52	Dissipative Driven Single-Band Tight-Binding Dynamics. International Journal of Theoretical Physics, 2012, 51, 1640-1646.	1.2	0
53	On oscillatorâ€™bath system: exact propagator, reduced density matrix and Greenâ€™s function. Physica Scripta, 2015, 90, 025206.	2.5	0
54	On the localized quantum oscillators in a common heat bath. International Journal of Modern Physics B, 2017, 31, 1750122.	2.0	0

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55	System Plus Reservoir Approach to Quantum Brownian Motion of a Rod-Like Particle. <i>International Journal of Theoretical Physics</i> , 2017, 56, 2140-2150.	1.2	0
56	From Brownian Motion Formalism to Fluctuation-Induced Force in a General Fluctuating Medium. <i>Fluctuation and Noise Letters</i> , 2018, 17, 1850020.	1.5	0
57	Radiation properties of an oscillating atom in the presence of external fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 035002.	1.5	0
58	The transition rates of an isotropic quantum charged oscillator in the presence of external fields. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050023.	2.0	0
59	Induced Casimir Force between Heavy Particles Substituted in an Oscillator Chain. <i>Acta Physica Polonica A</i> , 2019, 136, 66-71.	0.5	0
60	Quantum thermodynamics of a trapped two-level atom in an external light field. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	0
61	Quantum thermodynamics in the no-measurement scheme: driven two-level atom and harmonic oscillator. <i>Physica Scripta</i> , 2021, 96, 125119.	2.5	0