Bei Lok Hu

List of Publications by Year
in descending order

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204 papers	9,784 citations	30070 54 h-index	43889 91 g-index
213 all docs	213 docs citations	213 times ranked	2414 citing authors

#	Article	IF	Citations
1	Quantum Brownian motion in a general environment: Exact master equation with nonlocal dissipation and colored noise. Physical Review D, 1992, 45, 2843-2861.	4.7	825
2	Nonequilibrium quantum fields: Closed-time-path effective action, Wigner function, and Boltzmann equation. Physical Review D, 1988, 37, 2878-2900.	4.7	447
3	Closed-time-path functional formalism in curved spacetime: Application to cosmological back-reaction problems. Physical Review D, 1987, 35, 495-509.	4.7	415
4	Quantum effects in the early universe. I. Influence of trace anomalies on homogeneous, isotropic, classical geometries. Physical Review D, 1979, 20, 1757-1771.	4.7	256
5	Quantum Brownian motion in a general environment. II. Nonlinear coupling and perturbative approach. Physical Review D, 1993, 47, 1576-1594.	4.7	243
6	Conformal energy-momentum tensor in curved spacetime: Adiabatic regularization and renormalization. Physical Review D, 1974, 10, 3905-3924.	4.7	237
7	Anisotropy damping through quantum effects in the early universe. Physical Review D, 1978, 17, 933-945.	4.7	207
8	Noise and fluctuations in semiclassical gravity. Physical Review D, 1994, 49, 6636-6655.	4.7	177
9	Quantum fluctuations, decoherence of the mean field, and structure formation in the early Universe. Physical Review D, 1995, 52, 6770-6788.	4.7	168
10	Quantum effects in the early universe. II. Effective action for scalar fields in homogeneous cosmologies with small anisotropy. Physical Review D, 1979, 20, 1772-1782.	4.7	155
11	Quantum Brownian motion in a bath of parametric oscillators: A model for system-field interactions. Physical Review D, 1994, 49, 6612-6635.	4.7	129
12	Quantum effects in the early universe. III. Dissipation of anisotropy by scalar particle production. Physical Review D, 1980, 21, 2756-2769.	4.7	120
13	Stochastic theory of relativistic particles moving in a quantum field: Scalar Abraham-Lorentz-Dirac-Langevin equation, radiation reaction, and vacuum fluctuations. Physical Review D, 2002, 65, .	4.7	116
14	Exact master equation and quantum decoherence of two coupled harmonic oscillators in a general environment. Physical Review E, 2008, 77, 011112.	2.1	116
15	Vacuum viscosity description of quantum processes in the early universe. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 90, 375-380.	2.1	109
16	Effective Lagrangian forÎ»Ï†4theory in curved spacetime with varying background fields: Quasilocal approximation. Physical Review D, 1984, 30, 743-755.	4.7	106
17	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2008, 11, 1.	26.7	106
18	Fluctuation-dissipation relation for semiclassical cosmology. Physical Review D, 1995, 51, 1587-1606.	4.7	104

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19	Dissipation of quantum fields from particle creation. Physical Review D, 1989, 40, 656-659.	4.7	101
20	Back reaction in semiclassical gravity: The Einstein-Langevin equation. Physical Review D, 1995, 51, 1577-1586.	4.7	100
21	A master equation for gravitational decoherence: probing the textures of spacetime. Classical and Quantum Gravity, 2013, 30, 165007.	4.0	99
22	Stochastic Gravity: Theory and Applications. Living Reviews in Relativity, 2004, 7, 3.	26.7	90
23	Dissipation in quantum fields and semiclassical gravity. Physica A: Statistical Mechanics and Its Applications, 1989, 158, 399-424.	2.6	86
24	Exact analytical solutions to the master equation of quantum Brownian motion for a general environment. Annals of Physics, 2011, 326, 1207-1258.	2.8	86
25	Two-level atom-field interaction: Exact master equations for non-Markovian dynamics, decoherence, and relaxation. Physical Review A, 2000, 62, .	2.5	83
26	Nonequilibrium inflaton dynamics and reheating: Back reaction of parametric particle creation and curved spacetime effects. Physical Review D, 1997, 56, 678-705.	4.7	80
27	O(N)quantum fields in curved spacetime. Physical Review D, 1997, 56, 661-677.	4.7	80
28	Stochastic dynamics of correlations in quantum field theory: From the Schwinger-Dyson to Boltzmann-Langevin equation. Physical Review D, 1999, 61, .	4.7	80
29	Nonequilibrium dynamics of optical-lattice-loaded Bose-Einstein-condensate atoms: Beyond the Hartree-Fock-Bogoliubov approximation. Physical Review A, 2004, 69, .	2.5	80
30	Stochastic theory of accelerated detectors in a quantum field. Physical Review D, 1996, 53, 7003-7019.	4.7	77
31	Problems with the Newtonâ€“SchrÃ¶dinger equations. New Journal of Physics, 2014, 16, 085007.	2.9	77
32	Backreaction and the Unruh effect: New insights from exact solutions of uniformly accelerated detectors. Physical Review D, 2007, 76, .	4.7	73
33	Fluctuations of the vacuum energy density of quantum fields in curved spacetime via generalizedÎ¶functions. Physical Review D, 1997, 55, 6123-6134.	4.7	72
34	Relativistic quantum information in detectorsâ€“field interactions. Classical and Quantum Gravity, 2012, 29, 224005.	4.0	71
35	SQUEEZED VACUA AND THE QUANTUM STATISTICS OF COSMOLOGICAL PARTICLE CREATION. International Journal of Modern Physics A, 1994, 09, 991-1007.	1.5	70
36	Wave propagation in stochastic spacetimes: Localization, amplification, and particle creation. Physical Review D, 1998, 57, 3474-3483.	4.7	69

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37	Accelerated detector-quantum field correlations: From vacuum fluctuations to radiation flux. Physical Review D, 2006, 73, .	4.7	69
38	Induced quantum metric fluctuations and the validity of semiclassical gravity. Physical Review D, 2004, 70, .	4.7	68
39	Can Spacetime be a Condensate?. International Journal of Theoretical Physics, 2005, 44, 1785-1806.	1.2	68
40	Bose-Einstein condensate collapse and dynamical squeezing of vacuum fluctuations. Physical Review A, 2003, 68, .	2.5	67
41	The rotating-wave approximation: consistency and applicability from an open quantum system analysis. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 405304.	2.1	66
42	Near-thermal radiation in detectors, mirrors, and black holes: A stochastic approach. Physical Review D, 1997, 55, 4795-4812.	4.7	65
43	Nonequilibrium dynamics of a thermal plasma in a gravitational field. Physical Review D, 1998, 58, .	4.7	65
44	Entropy generation in cosmological particle creation and interactions: A statistical subdynamics analysis. Physical Review D, 1987, 35, 1776-1792.	4.7	64
45	Stochastic Gravity. International Journal of Theoretical Physics, 1999, 38, 2987-3037.	1.2	64
46	Stochastic gravity: a primer with applications. Classical and Quantum Gravity, 2003, 20, R1-R42.	4.0	63
47	Entanglement creation between two causally disconnected objects. Physical Review D, 2010, 81, .	4.7	63
48	Probing a gravitational cat state. Classical and Quantum Gravity, 2015, 32, 165022.	4.0	63
49	Symmetry behavior in curved spacetime: Finite-size effect and dimensional reduction. Physical Review D, 1987, 36, 1701-1715.	4.7	62
50	Symmetry behavior of the static Taub universe: Effect of curvature anisotropy. Physical Review D, 1985, 31, 2401-2423.	4.7	60
51	Scalar waves in the mixmaster universe. II. Particle creation. Physical Review D, 1974, 9, 3263-3281.	4.7	58
52	Quantum kinetic field theory in curved spacetime: Covariant Wigner function and Liouville-Vlasov equations. Physical Review D, 1988, 37, 2901-2919.	4.7	57
53	Equilibrium states of open quantum systems in the strong coupling regime. Physical Review E, 2012, 86, 061132.	2.1	57
54	Validity of the minisuperspace approximation: An example from interacting quantum field theory. Physical Review D, 1991, 44, 1028-1037.	4.7	56

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55	Noise kernel in stochastic gravity and stress energy bitensor of quantum fields in curved spacetimes. Physical Review D, 2001, 63, .	4.7	56
56	Vacuum energy density fluctuations in Minkowski and Casimir states via smeared quantum fields and point separation. Physical Review D, 2000, 62, .	4.7	55
57	Stochastic behavior of effective field theories across the threshold. Physical Review D, 1997, 55, 3536-3551.	4.7	54
58	Entropy and uncertainty of squeezed quantum open systems. Physical Review D, 1997, 55, 5917-5935.	4.7	52
59	Infrared Behavior and Finite-Size Effects in Inflationary Cosmology. Physical Review Letters, 1986, 56, 1613-1616.	7.8	51
60	Perturbations on the Mixmaster Universe. Physical Review Letters, 1972, 29, 1616-1620.	7.8	50
61	Non-Markovian qubit dynamics in a thermal field bath: Relaxation, decoherence, and entanglement. Physical Review A, 2005, 71, .	2.5	50
62	Disentanglement of two harmonic oscillators in relativistic motion. Physical Review D, 2008, 78, .	4.7	50
63	Nonequilibrium inflaton dynamics and reheating. II. Fermion production, noise, and stochasticity. Physical Review D, 1998, 57, 6003-6021.	4.7	49
64	Non-Markovian dynamics of open quantum systems: Stochastic equations and their perturbative solutions. Annals of Physics, 2012, 327, 1238-1276.	2.8	49
65	Separation of tensor equations in a homogeneous space by group theoretical methods. Journal of Mathematical Physics, 1974, 15, 1748-1755.	1.1	47
66	Scalar Waves in the Mixmaster Universe. I. The Helmholtz Equation in a Fixed Background. Physical Review D, 1973, 8, 1048-1060.	4.7	46
67	Metric fluctuations of an evaporating black hole from backreaction of stress tensor fluctuations. Physical Review D, 2007, 76, .	4.7	46
68	Uniformly Accelerated Charge in a Quantum Field: From Radiation Reaction to Unruh Effect. Foundations of Physics, 2005, 35, 1117-1147.	1.3	45
69	Calculation of the trace anomaly of the conformal energy-momentum tensor in Kasner spacetime by adiabatic regularization. Physical Review D, 1978, 18, 4460-4470.	4.7	44
70	Defect formation and critical dynamics in the early Universe. Physical Review D, 1999, 59, .	4.7	44
71	Noise kernel and the stress energy bitensor of quantum fields in hot flat space and the Schwarzschild black hole under the Gaussian approximation. Physical Review D, 2003, 67, .	4.7	44
72	Temporal and spatial dependence of quantum entanglement from a field theory perspective. Physical Review D, 2009, 79, .	4.7	44

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73	Self-force on extreme mass ratio inspirals via curved spacetime effective field theory. Physical Review D, 2009, 79, .	4.7	44
74	Entanglement dynamics between inertial and non-uniformly accelerated detectors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	44
75	Fluctuations of Energy Density and Validity of Semiclassical Gravity. International Journal of Theoretical Physics, 2000, 39, 1817-1830.	1.2	43
76	Hydrodynamic transport functions from quantum kinetic field theory. Physical Review D, 2000, 61, .	4.7	41
77	Unruh effect under non-equilibrium conditions: oscillatory motion of an Unruh-DeWitt detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	41
78	Gravitational wave detectors based on matter wave interferometers (MIGO) are no better than laser interferometers (LIGO). Physical Review D, 2006, 73, .	4.7	40
79	A Kinetic Theory Approach to Quantum Gravity. International Journal of Theoretical Physics, 2002, 41, 2091-2119.	1.2	39
80	Black Hole Fluctuations and Backreaction in Stochastic Gravity. Foundations of Physics, 2003, 33, 37-64.	1.3	39
81	Quantized Scalar Fields in a Closed Anisotropic Universe. Physical Review D, 1973, 8, 2377-2385.	4.7	38
82	Decoherence, delocalization, and irreversibility in quantum chaotic systems. Physical Review E, 1995, 52, 2497-2509.	2.1	38
83	Fluctuations in a Thermal Field and Dissipation of a Black Hole Spacetime: Far-Field Limit. International Journal of Theoretical Physics, 1999, 38, 1253-1271.	1.2	38
84	Early Universe Quantum Processes in BEC Collapse Experiments. International Journal of Theoretical Physics, 2005, 44, 1691-1704.	1.2	38
85	Emergent/quantum gravity: macro/micro structures of spacetime. Journal of Physics: Conference Series, 2009, 174, 012015.	0.4	38
86	Quantum thermodynamics from the nonequilibrium dynamics of open systems: Energy, heat capacity, and the third law. Physical Review E, 2018, 97, 012135.	2.1	38
87	The Quantum Mechanics of Closed Systems. , 1993, , 104-124.		36
88	Noise kernel for a quantum field in Schwarzschild spacetime under the Gaussian approximation. Physical Review D, 2012, 85, .	4.7	35
89	Probing a gravitational cat state: Experimental Possibilities. Journal of Physics: Conference Series, 2016, 701, 012015.	0.4	35
90	GRAVITY AND NONEQUILIBRIUM THERMODYNAMICS OF CLASSICAL MATTER. International Journal of Modern Physics D, 2011, 20, 697-716.	2.1	34

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91	Quantum superposition of two gravitational cat states. Classical and Quantum Gravity, 2020, 37, 235012.	4.0	34
92	Finite-temperature quantum field theory in curved spacetime: Quasilocal effective Lagrangians. Physical Review D, 1987, 35, 510-527.	4.7	33
93	Comment on â€œEnhancing Acceleration Radiation from Ground-State Atoms via Cavity Quantum Electrodynamicsâ€• Physical Review Letters, 2004, 93, 129301; author reply 129302.	7.8	33
94	Electromagnetic and gravitational self-force on a relativistic particle from quantum fields in curved space. Physical Review D, 2006, 74, .	4.7	33
95	Intrinsic and fundamental decoherence: issues and problems. Classical and Quantum Gravity, 2008, 25, 154003.	4.0	33
96	Nonequilibrium forces between atoms and dielectrics mediated by a quantum field. Physical Review A, 2011, 84, .	2.5	33
97	Equivalence principle for quantum systems: dephasing and phase shift of free-falling particles. Classical and Quantum Gravity, 2018, 35, 035011.	4.0	31
98	Critical dynamics in the early universe. Classical and Quantum Gravity, 1993, 10, S93-S100.	4.0	30
99	Quantum effects of interacting fields in the early Universe. Physical Review D, 1988, 37, 2151-2164.	4.7	29
100	Stability of Semiclassical Gravity Solutions with Respect to Quantum Metric Fluctuations. International Journal of Theoretical Physics, 2004, 43, 749-766.	1.2	29
101	Self-force with a stochastic component from radiation reaction of a scalar charge moving in curved spacetime. Physical Review D, 2005, 72, .	4.7	29
102	Mixmaster inflation. Physical Review D, 1986, 34, 2535-2538.	4.7	28
103	Fluctuations of an Evaporating Black Hole from Back Reaction of Its Hawking Radiation: Questioning aÂPremise in Earlier Work. International Journal of Theoretical Physics, 2007, 46, 2204-2217.	1.2	28
104	Non-Markovian entanglement dynamics of two qubits interacting with a common electromagnetic field. Quantum Information Processing, 2009, 8, 549-563.	2.2	28
105	Stress-energy tensor correlators of a quantum field in EuclideanRNandAdSNspaces via the generalized zeta-function method. Physical Review D, 2011, 84, .	4.7	28
106	Noise kernels of stochastic gravity in conformally-flat spacetimes. Classical and Quantum Gravity, 2015, 32, 055006.	4.0	26
107	Wigner distribution function and phase-space formulation of quantum cosmology. Physical Review D, 1989, 40, 380-389.	4.7	25
108	Notes on Black Hole Phase Transitions. International Journal of Theoretical Physics, 2001, 40, 2183-2200.	1.2	25

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109	Vacuum fluctuations and moving atoms/detectors: from the Casimirâ€“Polder to the Unruhâ€“Daviesâ€“DeWittâ€“Fulling effect. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S698-S705.	1.4	25
110	Gravitational waves in a Bianchi type-I universe. Physical Review D, 1978, 18, 969-982.	4.7	24
111	Noise kernel near the horizon of de Sitter space. Classical and Quantum Gravity, 2014, 31, 025015.	4.0	24
112	Quantum Origin of Noise and Fluctuations in Cosmology. , 1993, , 227-251.		24
113	Quantum and classical fluctuation theorems from a decoherent histories, open-system analysis. Physical Review E, 2012, 85, 011112.	2.1	23
114	Quantum Thermodynamics at Strong Coupling: Operator Thermodynamic Functions and Relations. Entropy, 2018, 20, 423.	2.2	23
115	Nonequilibrium thermodynamics of quantum friction. Physical Review A, 2020, 102, .	2.5	23
116	Radiation reaction in Schwarzschild spacetime: Retarded Greenâ€™s function via Hadamard-WKB expansion. Physical Review D, 2004, 69, .	4.7	22
117	Qubit decoherence and non-Markovian dynamics at low temperatures via an effective spin-boson model. Physical Review A, 2004, 70, .	2.5	22
118	Stressâ€“energy tensor correlators inN-dimensional hot flat spaces via the generalized zeta-function method. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 374013.	2.1	22
119	Black hole fluctuations and dynamics from back-reaction of Hawking radiation: Current work and further studies based on stochastic gravity. , 2006, , .		22
120	Quantum entanglement and entropy in particle creation. Physical Review D, 2010, 81, .	4.7	21
121	Oscillator-field model of moving mirrors in quantum optomechanics. Physical Review A, 2013, 87, .	2.5	21
122	Quantum teleportation between moving detectors. Physical Review D, 2015, 91, .	4.7	21
123	Moving atom-field interaction: Correction to the Casimir-Polder effect from coherent backaction. Physical Review A, 2003, 68, .	2.5	20
124	Nonequilibrium forces between neutral atoms mediated by a quantum field. Physical Review A, 2010, 82, .	2.5	20
125	Quantum dissipative processes and gravitational entropy of the universe. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 97, 368-374.	2.1	19
126	Quantum Brownian motion of a macroscopic object in a general environment. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 432-444.	2.6	19

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127	Non-Markovian dynamics and entanglement of two-level atoms in a common field. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 065301.	2.1	19
128	Gravitational decoherence, alternative quantum theories and semiclassical gravity. Journal of Physics: Conference Series, 2014, 504, 012021.	0.4	19
129	Quantum kinetic theory of a Bose-Einstein gas confined in a lattice. Physical Review A, 2005, 72, .	2.5	17
130	Distance and coupling dependence of entanglement in the presence of a quantum field. Physical Review D, 2015, 92, .	4.7	17
131	Symmetry behavior in cosmological spacetimes: Effect of slowly varying background fields. Physical Review D, 1988, 38, 2423-2433.	4.7	16
132	Correlation entropy of an interacting quantum field andHtheorem for theO(N)model. Physical Review D, 2003, 68, .	4.7	16
133	Entanglement, recoherence and information flow in an accelerated detectorâ€"quantum field system: implications for the black hole information issue. Classical and Quantum Gravity, 2008, 25, 154004.	4.0	16
134	Nonequilibrium Casimirâ€"Polder force in non-stationary systems. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 012001.	2.1	16
135	Mirror-field entanglement in a microscopic model for quantum optomechanics. Physical Review A, 2015, 92, .	2.5	15
136	Entanglement dynamics of detectors in an Einstein cylinder. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
137	Fluctuation-dissipation relation from the nonequilibrium dynamics of a nonlinear open quantum system. Physical Review D, 2020, 101, .	4.7	15
138	The influence of cosmological gravitational waves on a Newtonian binary system. Astrophysical Journal, 1981, 246, 569.	4.5	15
139	A study of finite size systems. Annals of Physics, 1989, 190, 310-353.	2.8	14
140	Bose-Einstein-condensate superfluidâ€"Mott-insulator transition in an optical lattice. Physical Review A, 2006, 73, .	2.5	14
141	Decoherence in quantum gravity: issues and critiques. Journal of Physics: Conference Series, 2007, 67, 012012.	0.4	14
142	Dynamics of atom-field entanglement: Towards strong-coupling and non-Markovian regimes. Physical Review A, 2008, 77, .	2.5	14
143	Fluctuation-dissipation and correlation-propagation relations from the nonequilibrium dynamics of detector-quantum field systems. Physical Review D, 2019, 100, .	4.7	14
144	Initial-state preparation with dynamically generated system-environment correlations. Physical Review E, 2011, 84, 021106.	2.1	13

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145	Influence action and decoherence of hydrodynamic modes. Physical Review D, 1999, 59, .	4.7	12
146	The classical and commutative limits of noncommutative quantum mechanics: a superstar * Wigner-Moyal equation. Brazilian Journal of Physics, 2005, 35, 333.	1.4	12
147	Self-force on a scalar charge in radial infall from rest using the Hadamard-WKB expansion. Physical Review D, 2006, 73, .	4.7	12
148	Atom-Field Interaction: From Vacuum Fluctuations to Quantum Radiation and Quantum Dissipation or Radiation Reaction. Physics, 2019, 1, 430-444.	1.4	12
149	Finite number and finite size effects in relativistic Bose-Einstein condensation. Physical Review D, 1999, 60, .	4.7	11
150	â€œHot entanglementâ€? â€“ A nonequilibrium quantum field theory scrutiny. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 396-400.	4.1	11
151	Quantum entanglement at high temperatures? Bosonic systems in nonequilibrium steady state. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11
152	Fluctuation-dissipation and correlation-propagation relations in (1â€¯+â€¯3)D moving detector-quantum field systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 694-699.	4.1	11
153	Nonequilibrium quantum free energy and effective temperature, generating functional, and influence action. Physical Review D, 2021, 103, .	4.7	11
154	No Intrinsic Decoherence of Inflationary Cosmological Perturbations. Universe, 2022, 8, 27.	2.5	10
155	Thermal particle creation in cosmological spacetimes: A stochastic approach. Physical Review D, 1997, 56, 4905-4915.	4.7	9
156	STOCHASTIC GROSS-PITAEVSKY EQUATION FOR BEC VIA COARSE-GRAINED EFFECTIVE ACTION. International Journal of Modern Physics B, 2007, 21, 4239-4247.	2.0	9
157	Nonequilibrium nonlinear open quantum systems: Functional perturbative analysis of a weakly anharmonic oscillator. Physical Review D, 2020, 101, .	4.7	9
158	Fluctuationâ€“dissipation relation for a quantum Brownian oscillator in a parametrically squeezed thermal field. Annals of Physics, 2021, 433, 168594.	2.8	9
159	Quantum noise of gravitons and stochastic force on geodesic separation. Physical Review D, 2022, 105, .	4.7	9
160	Numerical examples from perturbation analysis of the mixmaster universe. Physical Review D, 1975, 12, 1551-1562.	4.7	8
161	Moving atom-field interaction: Quantum motional decoherence and relaxation. Physical Review A, 2003, 68, .	2.5	8
162	Macroscopic quantum phenomena from the large N perspective. Journal of Physics: Conference Series, 2011, 306, 012002.	0.4	8

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163	Notes on Black Hole Fluctuations and Back-Reaction. , 1999, , 103-120.		8
164	Gravitational decoherence: A thematic overview. AVS Quantum Science, 2022, 4, .	4.9	8
165	New Insights into Uniformly Accelerated Detector in a Quantum Field. Foundations of Physics, 2007, 37, 480-490.	1.3	7
166	Nonequilibrium fluctuation-dissipation inequality and nonequilibrium uncertainty principle. Physical Review E, 2013, 88, 012102.	2.1	7
167	Boundary effects on quantum entanglement and its dynamics in a detector-field system. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
168	Fluctuation-dissipation relation for open quantum systems in a nonequilibrium steady state. Physical Review D, 2020, 102, .	4.7	7
169	Intrinsic Entropy of Squeezed Quantum Fields and Nonequilibrium Quantum Dynamics of Cosmological Perturbations. Entropy, 2021, 23, 1544.	2.2	7
170	Non-Markovian Quantum Error Deterrence by Dynamical Decoupling in a General Environment. Quantum Information Processing, 2007, 6, 55-79.	2.2	6
171	Gravity, Quantum Fields and Quantum Information: Problems with Classical Channel and Stochastic Theories. Entropy, 2022, 24, 490.	2.2	6
172	Nonequilibrium dynamics of charged particles in a quantized electromagnetic field: causal, stable and self-consistent dynamics from 1/cexpansion. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 255002.	2.1	5
173	Nonequilibrium steady state and heat transport in nonlinear open quantum systems: Stochastic influence action and functional perturbative analysis. Annals of Physics, 2020, 421, 168289.	2.8	5
174	Weyl Curvature Hypothesis in Light of Quantum Backreaction at Cosmological Singularities or Bounces. Universe, 2021, 7, 424.	2.5	5
175	Quantum-parametric-oscillator heat engines in squeezed thermal baths: Foundational theoretical issues. Physical Review E, 2022, 105, 014108.	2.1	5
176	Ground state excitation of an atom strongly coupled to a free quantum field. Physical Review D, 2019, 100, .	4.7	4
177	Goals and feasibility of the deep space quantum link. , 2021, , .		4
178	Recent Advances in Stochastic Gravity: Theory and Issues. , 2002, , 133-218.		4
179	Infrared behavior of quasilocal systems at finite temperature. Physical Review D, 1989, 39, 3647-3653.	4.7	3
180	Macroscopic Quantum Phenomena from the Correlation, Coupling and Criticality Perspectives. Journal of Physics: Conference Series, 2011, 330, 012003.	0.4	3

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181	Emergence: Key physical issues for deeper philosophical inquiries. Journal of Physics: Conference Series, 2012, 361, 012003.	0.4	3
182	Quantum teleportation and entanglement swapping with long baseline in outer space. Classical and Quantum Gravity, 2021, 38, 165002.	4.0	3
183	NonMarkovianity in cosmology: Memories kept in a quantum field. Annals of Physics, 2021, 434, 168656.	2.8	3
184	Quantum Thermodynamic Uncertainties in Nonequilibrium Systems from Robertson-SchrÃ¶dinger Relations. Entropy, 2022, 24, 870.	2.2	3
185	Decoherence of two-level systems can be very different from Brownian particles. Chaos, Solitons and Fractals, 2003, 16, 391-398.	5.1	2
186	Correlations of the stress-energy tensor in AdS spaces via the generalized zeta-function method. Journal of Physics: Conference Series, 2011, 330, 012002.	0.4	2
187	Effect of interatomic separation on entanglement dynamics in a two-atom two-mode model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 035503.	1.5	2
188	Decoherence strength of multiple non-Markovian environments. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4206-4214.	2.6	2
189	Conformally related Einstein-Langevin equations for metric fluctuations in stochastic gravity. Physical Review D, 2016, 94, .	4.7	2
190	Fractal spacetimes in stochastic gravity? â€“views from anomalous diffusion and the correlation hierarchy. Journal of Physics: Conference Series, 2017, 880, 012004.	0.4	2
191	Zeroth law in quantum thermodynamics at strong coupling: In equilibrium, not at equal temperature. Physical Review D, 2021, 103, .	4.7	2
192	Quantum Noise in Gravitation and Cosmology. Institute for Nonlinear Science, 1996, , 429-454.	0.2	2
193	Vortex formation in a two-dimensional Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095004.	1.5	1
194	Pathways toward understanding Macroscopic Quantum Phenomena. Journal of Physics: Conference Series, 2013, 442, 012010.	0.4	1
195	WORLDLINE INFLUENCE FUNCTIONAL: ABRAHAM-LORENTZ-DIRAC-LANGEVIN EQUATION FROM QED. , 2002, , .		1
196	Quantum Capacity and Vacuum Compressibility of Spacetime: Thermal Fields. Universe, 2022, 8, 291.	2.5	1
197	BOSE-EINSTEIN CONDENSATE SUPERFLUID - MOTT INSULATOR TRANSITION IN AN OPTICAL LATTICE. , 2006, , .		0
198	BOSE - EINSTEIN CONDENSATE SUPERFLUID - MOTT INSULATOR TRANSITION IN AN OPTICAL LATTICE. International Journal of Modern Physics B, 2006, 20, 5214-5217.	2.0	0

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199	NEW VIEW ON QUANTUM GRAVITY: MICRO-STRUCTURE OF SPACETIME AND ORIGIN OF THE UNIVERSE. , 2008, , .		0
200	Guest Editorsâ€™ Preface. Quantum Information Processing, 2009, 8, 477-478.	2.2	0
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