

Bei Lok Hu

List of Publications by Year in descending order

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204
papers

9,784
citations

30070

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91
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213
all docs

213
docs citations

213
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational decoherence: A thematic overview. AVS Quantum Science, 2022, 4, .	4.9	8
2	Quantum-parametric-oscillator heat engines in squeezed thermal baths: Foundational theoretical issues. Physical Review E, 2022, 105, 014108.	2.1	5
3	No Intrinsic Decoherence of Inflationary Cosmological Perturbations. Universe, 2022, 8, 27.	2.5	10
4	Gravity, Quantum Fields and Quantum Information: Problems with Classical Channel and Stochastic Theories. Entropy, 2022, 24, 490.	2.2	6
5	Quantum noise of gravitons and stochastic force on geodesic separation. Physical Review D, 2022, 105, .	4.7	9
6	Quantum Capacity and Vacuum Compressibility of Spacetime: Thermal Fields. Universe, 2022, 8, 291.	2.5	1
7	Quantum Thermodynamic Uncertainties in Nonequilibrium Systems from Robertson-Schrödinger Relations. Entropy, 2022, 24, 870.	2.2	3
8	Nonequilibrium quantum free energy and effective temperature, generating functional, and influence action. Physical Review D, 2021, 103, .	4.7	11
9	Zeroth law in quantum thermodynamics at strong coupling: In equilibrium, not at equal temperature. Physical Review D, 2021, 103, .	4.7	2
10	Quantum teleportation and entanglement swapping with long baseline in outer space. Classical and Quantum Gravity, 2021, 38, 165002.	4.0	3
11	Goals and feasibility of the deep space quantum link. , 2021, , .		4
12	Fluctuation-dissipation relation for a quantum Brownian oscillator in a parametrically squeezed thermal field. Annals of Physics, 2021, 433, 168594.	2.8	9
13	NonMarkovianity in cosmology: Memories kept in a quantum field. Annals of Physics, 2021, 434, 168656.	2.8	3
14	Weyl Curvature Hypothesis in Light of Quantum Backreaction at Cosmological Singularities or Bounces. Universe, 2021, 7, 424.	2.5	5
15	Intrinsic Entropy of Squeezed Quantum Fields and Nonequilibrium Quantum Dynamics of Cosmological Perturbations. Entropy, 2021, 23, 1544.	2.2	7
16	Nonequilibrium nonlinear open quantum systems: Functional perturbative analysis of a weakly anharmonic oscillator. Physical Review D, 2020, 101, .	4.7	9
17	Fluctuation-dissipation relation from the nonequilibrium dynamics of a nonlinear open quantum system. Physical Review D, 2020, 101, .	4.7	15
18	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

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19	Fluctuation-dissipation relation for open quantum systems in a nonequilibrium steady state. <i>Physical Review D</i> , 2020, 102, .	4.7	7
20	Nonequilibrium thermodynamics of quantum friction. <i>Physical Review A</i> , 2020, 102, .	2.5	23
21	Quantum superposition of two gravitational cat states. <i>Classical and Quantum Gravity</i> , 2020, 37, 235012.	4.0	34
22	Fluctuation-dissipation and correlation-propagation relations from the nonequilibrium dynamics of detector-quantum field systems. <i>Physical Review D</i> , 2019, 100, .	4.7	14
23	Fluctuation-dissipation and correlation-propagation relations in $(1+\hat{\epsilon}^{-3})D$ moving detector-quantum field systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 694-699.	4.1	11
24	Ground state excitation of an atom strongly coupled to a free quantum field. <i>Physical Review D</i> , 2019, 100, .	4.7	4
25	Atom-Field Interaction: From Vacuum Fluctuations to Quantum Radiation and Quantum Dissipation or Radiation Reaction. <i>Physics</i> , 2019, 1, 430-444.	1.4	12
26	Equivalence principle for quantum systems: dephasing and phase shift of free-falling particles. <i>Classical and Quantum Gravity</i> , 2018, 35, 035011.	4.0	31
27	Quantum thermodynamics from the nonequilibrium dynamics of open systems: Energy, heat capacity, and the third law. <i>Physical Review E</i> , 2018, 97, 012135.	2.1	38
28	Quantum Thermodynamics at Strong Coupling: Operator Thermodynamic Functions and Relations. <i>Entropy</i> , 2018, 20, 423.	2.2	23
29	Fractal spacetimes in stochastic gravity? "views from anomalous diffusion and the correlation hierarchy. <i>Journal of Physics: Conference Series</i> , 2017, 880, 012004.	0.4	2
30	Conformally related Einstein-Langevin equations for metric fluctuations in stochastic gravity. <i>Physical Review D</i> , 2016, 94, .	4.7	2
31	Probing a gravitational cat state: Experimental Possibilities. <i>Journal of Physics: Conference Series</i> , 2016, 701, 012015.	0.4	35
32	Entanglement dynamics of detectors in an Einstein cylinder. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	15
33	"Hot entanglement" " A nonequilibrium quantum field theory scrutiny. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 750, 396-400.	4.1	11
34	Distance and coupling dependence of entanglement in the presence of a quantum field. <i>Physical Review D</i> , 2015, 92, .	4.7	17
35	Mirror-field entanglement in a microscopic model for quantum optomechanics. <i>Physical Review A</i> , 2015, 92, .	2.5	15
36	Quantum entanglement at high temperatures? Bosonic systems in nonequilibrium steady state. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	11

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37	Quantum teleportation between moving detectors. <i>Physical Review D</i> , 2015, 91, .	4.7	21
38	Noise kernels of stochastic gravity in conformally-flat spacetimes. <i>Classical and Quantum Gravity</i> , 2015, 32, 055006.	4.0	26
39	Probing a gravitational cat state. <i>Classical and Quantum Gravity</i> , 2015, 32, 165022.	4.0	63
40	Problems with the Newtonian Schrödinger equations. <i>New Journal of Physics</i> , 2014, 16, 085007.	2.9	77
41	Noise kernel near the horizon of de Sitter space. <i>Classical and Quantum Gravity</i> , 2014, 31, 025015.	4.0	24
42	Gravitational decoherence, alternative quantum theories and semiclassical gravity. <i>Journal of Physics: Conference Series</i> , 2014, 504, 012021.	0.4	19
43	Nonequilibrium fluctuation-dissipation inequality and nonequilibrium uncertainty principle. <i>Physical Review E</i> , 2013, 88, 012102.	2.1	7
44	Boundary effects on quantum entanglement and its dynamics in a detector-field system. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	7
45	Unruh effect under non-equilibrium conditions: oscillatory motion of an Unruh-DeWitt detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	41
46	Oscillator-field model of moving mirrors in quantum optomechanics. <i>Physical Review A</i> , 2013, 87, .	2.5	21
47	A master equation for gravitational decoherence: probing the textures of spacetime. <i>Classical and Quantum Gravity</i> , 2013, 30, 165007.	4.0	99
48	Pathways toward understanding Macroscopic Quantum Phenomena. <i>Journal of Physics: Conference Series</i> , 2013, 442, 012010.	0.4	1
49	Stress-energy tensor correlators in N-dimensional hot flat spaces via the generalized zeta-function method. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 374013.	2.1	22
50	Emergence: Key physical issues for deeper philosophical inquiries. <i>Journal of Physics: Conference Series</i> , 2012, 361, 012003.	0.4	3
51	Equilibrium states of open quantum systems in the strong coupling regime. <i>Physical Review E</i> , 2012, 86, 061132.	2.1	57
52	Entanglement dynamics between inertial and non-uniformly accelerated detectors. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	44
53	Non-Markovian dynamics and entanglement of two-level atoms in a common field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 065301.	2.1	19
54	Nonequilibrium dynamics of charged particles in a quantized electromagnetic field: causal, stable and self-consistent dynamics from 1/c expansion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 255002.	2.1	5

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55	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
56	Relativistic quantum information in detectorsâ€™field interactions. Classical and Quantum Gravity, 2012, 29, 224005.	4.0	71
57	Quantum and classical fluctuation theorems from a decoherent histories, open-system analysis. Physical Review E, 2012, 85, 011112.	2.1	23
58	Noise kernel for a quantum field in Schwarzschild spacetime under the Gaussian approximation. Physical Review D, 2012, 85, .	4.7	35
59	Non-Markovian dynamics of open quantum systems: Stochastic equations and their perturbative solutions. Annals of Physics, 2012, 327, 1238-1276.	2.8	49
60	Decoherence strength of multiple non-Markovian environments. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4206-4214.	2.6	2
61	Stress-energy tensor correlators of a quantum field in EuclideanRNandAdSnspace via the generalized zeta-function method. Physical Review D, 2011, 84, .	4.7	28
62	Initial-state preparation with dynamically generated system-environment correlations. Physical Review E, 2011, 84, 021106.	2.1	13
63	Macroscopic quantum phenomena from the large N perspective. Journal of Physics: Conference Series, 2011, 306, 012002.	0.4	8
64	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
65	Macroscopic Quantum Phenomena from the Correlation, Coupling and Criticality Perspectives. Journal of Physics: Conference Series, 2011, 330, 012003.	0.4	3
66	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
67	Nonequilibrium forces between atoms and dielectrics mediated by a quantum field. Physical Review A, 2011, 84, .	2.5	33
68	GRAVITY AND NONEQUILIBRIUM THERMODYNAMICS OF CLASSICAL MATTER. International Journal of Modern Physics D, 2011, 20, 697-716.	2.1	34
69	Nonequilibrium forces between neutral atoms mediated by a quantum field. Physical Review A, 2010, 82, .	2.5	20
70	Vortex formation in a two-dimensional Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095004.	1.5	1
71	Entanglement creation between two causally disconnected objects. Physical Review D, 2010, 81, .	4.7	63
72	Quantum entanglement and entropy in particle creation. Physical Review D, 2010, 81, .	4.7	21

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73	Nonequilibrium Casimir-Polder force in non-stationary systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 012001.	2.1	16
74	The rotating-wave approximation: consistency and applicability from an open quantum system analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 405304.	2.1	66
75	Non-Markovian entanglement dynamics of two qubits interacting with a common electromagnetic field. <i>Quantum Information Processing</i> , 2009, 8, 549-563.	2.2	28
76	Guest Editors' Preface. <i>Quantum Information Processing</i> , 2009, 8, 477-478.	2.2	0
77	Emergent/quantum gravity: macro/micro structures of spacetime. <i>Journal of Physics: Conference Series</i> , 2009, 174, 012015.	0.4	38
78	Temporal and spatial dependence of quantum entanglement from a field theory perspective. <i>Physical Review D</i> , 2009, 79, .	4.7	44
79	Self-force on extreme mass ratio inspirals via curved spacetime effective field theory. <i>Physical Review D</i> , 2009, 79, .	4.7	44
80	Quantum Brownian motion of a macroscopic object in a general environment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 432-444.	2.6	19
81	Entanglement, recoherence and information flow in an accelerated detector's quantum field system: implications for the black hole information issue. <i>Classical and Quantum Gravity</i> , 2008, 25, 154004.	4.0	16
82	Exact master equation and quantum decoherence of two coupled harmonic oscillators in a general environment. <i>Physical Review E</i> , 2008, 77, 011112.	2.1	116
83	Dynamics of atom-field entanglement: Towards strong-coupling and non-Markovian regimes. <i>Physical Review A</i> , 2008, 77, .	2.5	14
84	Disentanglement of two harmonic oscillators in relativistic motion. <i>Physical Review D</i> , 2008, 78, .	4.7	50
85	Intrinsic and fundamental decoherence: issues and problems. <i>Classical and Quantum Gravity</i> , 2008, 25, 154003.	4.0	33
86	NEW VIEW ON QUANTUM GRAVITY: MICRO-STRUCTURE OF SPACETIME AND ORIGIN OF THE UNIVERSE. , 2008, , .		0
87	Stochastic Gravity: Theory and Applications. <i>Living Reviews in Relativity</i> , 2008, 11, 1.	26.7	106
88	STOCHASTIC GROSS-PITAEVSKY EQUATION FOR BEC VIA COARSE-GRAINED EFFECTIVE ACTION. <i>International Journal of Modern Physics B</i> , 2007, 21, 4239-4247.	2.0	9
89	Decoherence in quantum gravity: issues and critiques. <i>Journal of Physics: Conference Series</i> , 2007, 67, 012012.	0.4	14
90	Metric fluctuations of an evaporating black hole from backreaction of stress tensor fluctuations. <i>Physical Review D</i> , 2007, 76, .	4.7	46

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91	Backreaction and the Unruh effect: New insights from exact solutions of uniformly accelerated detectors. <i>Physical Review D</i> , 2007, 76, .	4.7	73
92	Non-Markovian Quantum Error Deterrence by Dynamical Decoupling in a General Environment. <i>Quantum Information Processing</i> , 2007, 6, 55-79.	2.2	6
93	New Insights into Uniformly Accelerated Detector in a Quantum Field. <i>Foundations of Physics</i> , 2007, 37, 480-490.	1.3	7
94	Fluctuations of an Evaporating Black Hole from Back Reaction of Its Hawking Radiation: Questioning a Premise in Earlier Work. <i>International Journal of Theoretical Physics</i> , 2007, 46, 2204-2217.	1.2	28
95	Accelerated detector-quantum field correlations: From vacuum fluctuations to radiation flux. <i>Physical Review D</i> , 2006, 73, .	4.7	69
96	Gravitational wave detectors based on matter wave interferometers (MIGO) are no better than laser interferometers (LIGO). <i>Physical Review D</i> , 2006, 73, .	4.7	40
97	Self-force on a scalar charge in radial infall from rest using the Hadamard-WKB expansion. <i>Physical Review D</i> , 2006, 73, .	4.7	12
98	Electromagnetic and gravitational self-force on a relativistic particle from quantum fields in curved space. <i>Physical Review D</i> , 2006, 74, .	4.7	33
99	BOSE-EINSTEIN CONDENSATE SUPERFLUID - MOTT INSULATOR TRANSITION IN AN OPTICAL LATTICE. , 2006, , .		0
100	Bose-Einstein-condensate superfluidâ€™Mott-insulator transition in an optical lattice. <i>Physical Review A</i> , 2006, 73, .	2.5	14
101	BOSE - EINSTEIN CONDENSATE SUPERFLUID - MOTT INSULATOR TRANSITION IN AN OPTICAL LATTICE. <i>International Journal of Modern Physics B</i> , 2006, 20, 5214-5217.	2.0	0
102	Black hole fluctuations and dynamics from back-reaction of Hawking radiation: Current work and further studies based on stochastic gravity. , 2006, , .		22
103	Uniformly Accelerated Detector in (3+1)D Spacetime: From Vacuum Fluctuations to Radiation Flux. , 2006, , .		0
104	Uniformly Accelerated Charge in a Quantum Field: From Radiation Reaction to Unruh Effect. <i>Foundations of Physics</i> , 2005, 35, 1117-1147.	1.3	45
105	Early Universe Quantum Processes in BEC Collapse Experiments. <i>International Journal of Theoretical Physics</i> , 2005, 44, 1691-1704.	1.2	38
106	Can Spacetime be a Condensate?. <i>International Journal of Theoretical Physics</i> , 2005, 44, 1785-1806.	1.2	68
107	The classical and commutative limits of noncommutative quantum mechanics: a superstar * Wigner-Moyal equation. <i>Brazilian Journal of Physics</i> , 2005, 35, 333.	1.4	12
108	Quantum kinetic theory of a Bose-Einstein gas confined in a lattice. <i>Physical Review A</i> , 2005, 72, .	2.5	17

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109	Non-Markovian qubit dynamics in a thermal field bath: Relaxation, decoherence, and entanglement. <i>Physical Review A</i> , 2005, 71, .	2.5	50
110	Self-force with a stochastic component from radiation reaction of a scalar charge moving in curved spacetime. <i>Physical Review D</i> , 2005, 72, .	4.7	29
111	Induced quantum metric fluctuations and the validity of semiclassical gravity. <i>Physical Review D</i> , 2004, 70, .	4.7	68
112	Comment on "Enhancing Acceleration Radiation from Ground-State Atoms via Cavity Quantum Electrodynamics"; <i>Physical Review Letters</i> , 2004, 93, 129301; author reply 129302.	7.8	33
113	Radiation reaction in Schwarzschild spacetime: Retarded Green's function via Hadamard-WKB expansion. <i>Physical Review D</i> , 2004, 69, .	4.7	22
114	Qubit decoherence and non-Markovian dynamics at low temperatures via an effective spin-boson model. <i>Physical Review A</i> , 2004, 70, .	2.5	22
115	Vacuum fluctuations and moving atoms/detectors: from the Casimir-Polder to the Unruh-Davies-DeWitt-Fulling effect. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S698-S705.	1.4	25
116	Stability of Semiclassical Gravity Solutions with Respect to Quantum Metric Fluctuations. <i>International Journal of Theoretical Physics</i> , 2004, 43, 749-766.	1.2	29
117	Nonequilibrium dynamics of optical-lattice-loaded Bose-Einstein-condensate atoms: Beyond the Hartree-Fock-Bogoliubov approximation. <i>Physical Review A</i> , 2004, 69, .	2.5	80
118	Stochastic Gravity: Theory and Applications. <i>Living Reviews in Relativity</i> , 2004, 7, 3.	26.7	90
119	Black Hole Fluctuations and Backreaction in Stochastic Gravity. <i>Foundations of Physics</i> , 2003, 33, 37-64.	1.3	39
120	Decoherence of two-level systems can be very different from Brownian particles. <i>Chaos, Solitons and Fractals</i> , 2003, 16, 391-398.	5.1	2
121	Stochastic gravity: a primer with applications. <i>Classical and Quantum Gravity</i> , 2003, 20, R1-R42.	4.0	63
122	Moving atom-field interaction: Quantum motional decoherence and relaxation. <i>Physical Review A</i> , 2003, 68, .	2.5	8
123	Moving atom-field interaction: Correction to the Casimir-Polder effect from coherent backaction. <i>Physical Review A</i> , 2003, 68, .	2.5	20
124	Bose-Einstein condensate collapse and dynamical squeezing of vacuum fluctuations. <i>Physical Review A</i> , 2003, 68, .	2.5	67
125	Noise kernel and the stress energy bitensor of quantum fields in hot flat space and the Schwarzschild black hole under the Gaussian approximation. <i>Physical Review D</i> , 2003, 67, .	4.7	44
126	Correlation entropy of an interacting quantum field and Htheorem for the O(N) model. <i>Physical Review D</i> , 2003, 68, .	4.7	16

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127	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
128	A Kinetic Theory Approach to Quantum Gravity. International Journal of Theoretical Physics, 2002, 41, 2091-2119.	1.2	39
129	Recent Advances in Stochastic Gravity: Theory and Issues. , 2002, , 133-218.		4
130	WORLDLINE INFLUENCE FUNCTIONAL: ABRAHAM-LORENTZ-DIRAC-LANGEVIN EQUATION FROM QED. , 2002, , .		1
131	BEYOND UNRUH EFFECT: NONEQUILIBRIUM QUANTUM DYNAMICS OF MOVING CHARGES. , 2002, , .		0
132	IS THERE EMITTED RADIATION IN UNRUH EFFECT?.. , 2002, , .		0
133	Notes on Black Hole Phase Transitions. International Journal of Theoretical Physics, 2001, 40, 2183-2200.	1.2	25
134	Noise kernel in stochastic gravity and stress energy bitensor of quantum fields in curved spacetimes. Physical Review D, 2001, 63, .	4.7	56
135	Fluctuations of Energy Density and Validity of Semiclassical Gravity. International Journal of Theoretical Physics, 2000, 39, 1817-1830.	1.2	43
136	Vacuum energy density fluctuations in Minkowski and Casimir states via smeared quantum fields and point separation. Physical Review D, 2000, 62, .	4.7	55
137	Hydrodynamic transport functions from quantum kinetic field theory. Physical Review D, 2000, 61, .	4.7	41
138	Two-level atom-field interaction: Exact master equations for non-Markovian dynamics, decoherence, and relaxation. Physical Review A, 2000, 62, .	2.5	83
139	Defect formation and critical dynamics in the early Universe. Physical Review D, 1999, 59, .	4.7	44
140	Finite number and finite size effects in relativistic Bose-Einstein condensation. Physical Review D, 1999, 60, .	4.7	11
141	Influence action and decoherence of hydrodynamic modes. Physical Review D, 1999, 59, .	4.7	12
142	Stochastic Gravity. International Journal of Theoretical Physics, 1999, 38, 2987-3037.	1.2	64
143	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
144	Stochastic dynamics of correlations in quantum field theory: From the Schwinger-Dyson to Boltzmann-Langevin equation. Physical Review D, 1999, 61, .	4.7	80

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145	Notes on Black Hole Fluctuations and Back-Reaction. , 1999, , 103-120.		8
146	Wave propagation in stochastic spacetimes: Localization, amplification, and particle creation. Physical Review D, 1998, 57, 3474-3483.	4.7	69
147	Nonequilibrium dynamics of a thermal plasma in a gravitational field. Physical Review D, 1998, 58, .	4.7	65
148	Nonequilibrium inflaton dynamics and reheating. II. Fermion production, noise, and stochasticity. Physical Review D, 1998, 57, 6003-6021.	4.7	49
149	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
150	Fluctuations of the vacuum energy density of quantum fields in curved spacetime via generalized η -functions. Physical Review D, 1997, 55, 6123-6134.	4.7	72
151	$O(N)$ quantum fields in curved spacetime. Physical Review D, 1997, 56, 661-677.	4.7	80
152	Stochastic behavior of effective field theories across the threshold. Physical Review D, 1997, 55, 3536-3551.	4.7	54
153	Near-thermal radiation in detectors, mirrors, and black holes: A stochastic approach. Physical Review D, 1997, 55, 4795-4812.	4.7	65
154	Entropy and uncertainty of squeezed quantum open systems. Physical Review D, 1997, 55, 5917-5935.	4.7	52
155	Thermal particle creation in cosmological spacetimes: A stochastic approach. Physical Review D, 1997, 56, 4905-4915.	4.7	9
156	Stochastic theory of accelerated detectors in a quantum field. Physical Review D, 1996, 53, 7003-7019.	4.7	77
157	Correlation Dynamics of Quantum Fields and Black Hole Information Paradox. , 1996, , 219-232.		0
158	Quantum Noise in Gravitation and Cosmology. Institute for Nonlinear Science, 1996, , 429-454.	0.2	2
159	Fluctuation-dissipation relation for semiclassical cosmology. Physical Review D, 1995, 51, 1587-1606.	4.7	104
160	Quantum fluctuations, decoherence of the mean field, and structure formation in the early Universe. Physical Review D, 1995, 52, 6770-6788.	4.7	168
161	Back reaction in semiclassical gravity: The Einstein-Langevin equation. Physical Review D, 1995, 51, 1577-1586.	4.7	100
162	Decoherence, delocalization, and irreversibility in quantum chaotic systems. Physical Review E, 1995, 52, 2497-2509.	2.1	38

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163	SQUEEZED VACUA AND THE QUANTUM STATISTICS OF COSMOLOGICAL PARTICLE CREATION. International Journal of Modern Physics A, 1994, 09, 991-1007.	1.5	70
164	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
165	Noise and fluctuations in semiclassical gravity. Physical Review D, 1994, 49, 6636-6655.	4.7	177
166	Quantum Brownian motion in a general environment. II. Nonlinear coupling and perturbative approach. Physical Review D, 1993, 47, 1576-1594.	4.7	243
167	Critical dynamics in the early universe. Classical and Quantum Gravity, 1993, 10, S93-S100.	4.0	30
168	The Quantum Mechanics of Closed Systems. , 1993, , 104-124.		36
169	Quantum Origin of Noise and Fluctuations in Cosmology. , 1993, , 227-251.		24
170	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
171	Validity of the minisuperspace approximation: An example from interacting quantum field theory. Physical Review D, 1991, 44, 1028-1037.	4.7	56
172	Infrared behavior of quasilocal systems at finite temperature. Physical Review D, 1989, 39, 3647-3653.	4.7	3
173	A study of finite size systems. Annals of Physics, 1989, 190, 310-353.	2.8	14
174	Dissipation in quantum fields and semiclassical gravity. Physica A: Statistical Mechanics and Its Applications, 1989, 158, 399-424.	2.6	86
175	Dissipation of quantum fields from particle creation. Physical Review D, 1989, 40, 656-659.	4.7	101
176	Wigner distribution function and phase-space formulation of quantum cosmology. Physical Review D, 1989, 40, 380-389.	4.7	25
177	Nonequilibrium quantum fields: Closed-time-path effective action, Wigner function, and Boltzmann equation. Physical Review D, 1988, 37, 2878-2900.	4.7	447
178	Symmetry behavior in cosmological spacetimes: Effect of slowly varying background fields. Physical Review D, 1988, 38, 2423-2433.	4.7	16
179	Quantum kinetic field theory in curved spacetime: Covariant Wigner function and Liouville-Vlasov equations. Physical Review D, 1988, 37, 2901-2919.	4.7	57
180	Quantum effects of interacting fields in the early Universe. Physical Review D, 1988, 37, 2151-2164.	4.7	29

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181	Symmetry behavior in curved spacetime: Finite-size effect and dimensional reduction. <i>Physical Review D</i> , 1987, 36, 1701-1715.	4.7	62
182	Entropy generation in cosmological particle creation and interactions: A statistical subdynamics analysis. <i>Physical Review D</i> , 1987, 35, 1776-1792.	4.7	64
183	Finite-temperature quantum field theory in curved spacetime: Quasilocal effective Lagrangians. <i>Physical Review D</i> , 1987, 35, 510-527.	4.7	33
184	Closed-time-path functional formalism in curved spacetime: Application to cosmological back-reaction problems. <i>Physical Review D</i> , 1987, 35, 495-509.	4.7	415
185	Mixmaster inflation. <i>Physical Review D</i> , 1986, 34, 2535-2538.	4.7	28
186	Infrared Behavior and Finite-Size Effects in Inflationary Cosmology. <i>Physical Review Letters</i> , 1986, 56, 1613-1616.	7.8	51
187	Symmetry behavior of the static Taub universe: Effect of curvature anisotropy. <i>Physical Review D</i> , 1985, 31, 2401-2423.	4.7	60
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