

Larry Ford

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

3,995
citations

136950

32
h-index

118850

62
g-index

103
all docs

103
docs citations

103
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational particle creation and inflation. Physical Review D, 1987, 35, 2955-2960.	4.7	458
2	Quantized gravitational wave perturbations in Robertson-Walker universes. Physical Review D, 1977, 16, 1601-1608.	4.7	229
3	Averaged energy conditions and quantum inequalities. Physical Review D, 1995, 51, 4277-4286.	4.7	206
4	Infrared divergences in a class of Robertson-Walker universes. Physical Review D, 1977, 16, 245-250.	4.7	186
5	Semiclassical gravity theory and quantum fluctuations. Physical Review D, 1993, 47, 4510-4519.	4.7	156
6	Quantum radiation by moving mirrors. Physical Review D, 1982, 25, 2569-2575.	4.7	140
7	Quantum field theory constrains traversable wormhole geometries. Physical Review D, 1996, 53, 5496-5507.	4.7	133
8	Restrictions on negative energy density in flat spacetime. Physical Review D, 1997, 55, 2082-2089.	4.7	127
9	Constraints on negative-energy fluxes. Physical Review D, 1991, 43, 3972-3978.	4.7	113
10	The unphysical nature of 'warp drive'. Classical and Quantum Gravity, 1997, 14, 1743-1751.	4.0	106
11	Gravitons and light cone fluctuations. Physical Review D, 1995, 51, 1692-1700.	4.7	103
12	Cosmological and black hole horizon fluctuations. Physical Review D, 1997, 56, 2226-2235.	4.7	78
13	Light-cone fluctuations in flat spacetimes with nontrivial topology. Physical Review D, 1999, 60, .	4.7	73
14	Effects of field interactions upon particle creation in Robertson-Walker universes. Journal of Physics A, 1980, 13, 961-968.	1.6	62
15	Vacuum energy density near fluctuating boundaries. Physical Review D, 1998, 58, .	4.7	61
16	Energy density in the Casimir effect. Physical Review D, 2002, 66, .	4.7	61
17	Probability distributions of smeared quantum stress tensors. Physical Review D, 2010, 81, .	4.7	60
18	Probability distributions for quantum stress tensors in four dimensions. Physical Review D, 2012, 85, .	4.7	59

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19	Fluctuations of the Hawking flux. <i>Physical Review D</i> , 1999, 60, .	4.7	58
20	Scalar field quantum inequalities in static spacetimes. <i>Physical Review D</i> , 1998, 57, 3489-3502.	4.7	56
21	Stress tensor correlators in the Schwingerâ€Keldysh formalism. <i>Classical and Quantum Gravity</i> , 2005, 22, 1637-1645.	4.0	56
22	Vacuum fluctuations and Brownian motion of a charged test particle near a reflecting boundary. <i>Physical Review D</i> , 2004, 70, .	4.7	55
23	"Cosmic flashing" in four dimensions. <i>Physical Review D</i> , 1992, 46, 1328-1339.	4.7	54
24	Spectrum of the Casimir effect. <i>Physical Review D</i> , 1988, 38, 528-532.	4.7	50
25	Electromagnetic vacuum fluctuations and electron coherence. <i>Physical Review D</i> , 1993, 47, 5571-5580.	4.7	49
26	Stress Tensor Fluctuations and Passive Quantum Gravity. <i>International Journal of Theoretical Physics</i> , 2003, 42, 15-26.	1.2	49
27	Gravitons and light cone fluctuations. II. Correlation functions. <i>Physical Review D</i> , 1996, 54, 2640-2646.	4.7	47
28	Estimate of the vibrational frequencies of spherical virus particles. <i>Physical Review E</i> , 2003, 67, 051924.	2.1	46
29	Effects of stress tensor fluctuations upon focusing. <i>Physical Review D</i> , 2004, 70, .	4.7	43
30	Classical scalar fields and the generalized second law. <i>Physical Review D</i> , 2001, 64, .	4.7	42
31	Casimir force between a dielectric sphere and a wall: A model for amplification of vacuum fluctuations. <i>Physical Review A</i> , 1998, 58, 4279-4286.	2.5	41
32	Spectrum of the Casimir effect and the Lifshitz theory. <i>Physical Review A</i> , 1993, 48, 2962-2967.	2.5	39
33	Enhanced black hole horizon fluctuations. <i>Physical Review D</i> , 2008, 78, .	4.7	33
34	Global symmetry breaking in two-dimensional flat spacetime and in de Sitter spacetime. <i>Physical Review D</i> , 1986, 33, 2833-2839.	4.7	32
35	Quantum fluctuations of radiation pressure. <i>Physical Review D</i> , 2001, 64, .	4.7	32
36	Quantum light-cone fluctuations in compactified spacetimes. <i>Physical Review D</i> , 2009, 80, .	4.7	32

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37	Cosmological particle production: a review. Reports on Progress in Physics, 2021, 84, 116901.	20.1	32
38	Quantum inequalities on the energy density in static Robertson-Walker spacetimes. Physical Review D, 1997, 55, 4813-4821.	4.7	31
39	Possible constraints on the duration of inflationary expansion from quantum stress tensor fluctuations. Physical Review D, 2007, 75, .	4.7	31
40	Probability distributions for quantum stress tensors measured in a finite time interval. Physical Review D, 2015, 92, .	4.7	31
41	Fluctuations of the retarded van der Waals force. Physical Review A, 2002, 65, .	2.5	29
42	Minkowski vacuum stress tensor fluctuations. Physical Review D, 2005, 72, .	4.7	29
43	Spectral line broadening and angular blurring due to spacetime geometry fluctuations. Physical Review D, 2006, 74, .	4.7	29
44	Stochastic Spacetime and Brownian Motion of Test Particles. International Journal of Theoretical Physics, 2005, 44, 1753-1768.	1.2	27
45	Stress Tensor Fluctuations and Stochastic Spacetimes. International Journal of Theoretical Physics, 2000, 39, 1803-1815.	1.2	26
46	NEGATIVE ENERGY DENSITIES IN QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2010, 25, 2355-2363.	1.5	26
47	Quantum stress tensor fluctuations of a conformal field and inflationary cosmology. Physical Review D, 2010, 82, .	4.7	26
48	STOCHASTIC GRAVITY AND THE LANGEVIN-RAYCHAUDHURI EQUATION. International Journal of Modern Physics A, 2005, 20, 2364-2373.	1.5	24
49	Quantum Gravitational Force Between Polarizable Objects. Physical Review Letters, 2016, 116, 151301.	7.8	24
50	The Classical Singularity Theorems and Their Quantum Loopholes. International Journal of Theoretical Physics, 2003, 42, 1219-1227.	1.2	21
51	Brownian motion in Robertson-Walker spacetimes from electromagnetic vacuum fluctuations. Journal of Mathematical Physics, 2009, 50, .	1.1	21
52	Macroscopic detection of negative-energy fluxes. Physical Review D, 1992, 46, 4566-4573.	4.7	20
53	Model for noncancellation of quantum electric field fluctuations. Physical Review A, 2011, 84, .	2.5	18
54	Graviton emission by a thermal bath of photons. Physical Review D, 1988, 38, 3657-3661.	4.7	16

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55	External Time-Varying Fields and Electron Coherence. Physical Review Letters, 2004, 92, 250402.	7.8	16
56	Gravity waves from quantum stress tensor fluctuations in inflation. Physical Review D, 2011, 84, .	4.7	15
57	Graviton creation by small scale factor oscillations in an expanding universe. Physical Review D, 2016, 94, .	4.7	15
58	SPACETIME IN SEMICLASSICAL GRAVITY. , 2005, , 293-310.		14
59	Quantum Density Fluctuations in Classical Liquids. Physical Review Letters, 2009, 102, 030602.	7.8	14
60	Quantum electric field fluctuations and potential scattering. Physical Review D, 2015, 91, .	4.7	14
61	Model for lightcone fluctuations due to stress tensor fluctuations. Physical Review D, 2016, 93, .	4.7	14
62	Electromagnetic field stress tensor between dielectric half-spaces. Physical Review D, 2005, 72, .	4.7	13
63	Probability distributions for space and time averaged quantum stress tensors. Physical Review D, 2020, 101, .	4.7	12
64	Vacuum radiation pressure fluctuations and barrier penetration. Physical Review D, 2017, 96, .	4.7	11
65	Fluid analog model for boundary effects in field theory. Physical Review D, 2009, 80, .	4.7	10
66	Decoherence induced by long wavelength gravitons. Physical Review D, 2015, 91, .	4.7	10
67	Focusing vacuum fluctuations. II. Physical Review A, 2002, 66, .	2.5	9
68	Effects of quantum stress tensor fluctuations with compact extra dimensions. Physical Review D, 2004, 70, .	4.7	9
69	Quantum Stress Tensor Fluctuations and their Physical Effects. AIP Conference Proceedings, 2008, , .	0.4	9
70	Enhanced geometry fluctuations in Minkowski and black hole spacetimes. Classical and Quantum Gravity, 2008, 25, 154006.	4.0	9
71	DECOHERENCE AND RECOHERENCE IN MODEL QUANTUM SYSTEMS. International Journal of Modern Physics A, 2009, 24, 1705-1712.	1.5	9
72	Quantum modifications to gravity waves in deSitter spacetime. Physical Review D, 2011, 83, .	4.7	9

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73	Analog model for light propagation in semiclassical gravity. <i>Physical Review D</i> , 2014, 90, .	4.7	9
74	Vacuum quantum stress tensor fluctuations: A diagonalization approach. <i>Physical Review D</i> , 2018, 97, .	4.7	9
75	Casimir force between a small dielectric sphere and a dielectric wall. <i>Physical Review A</i> , 2004, 70, .	2.5	7
76	Energy flux correlations and moving mirrors. <i>Physical Review D</i> , 2004, 70, .	4.7	7
77	Space and time averaged quantum stress tensor fluctuations. <i>Physical Review D</i> , 2021, 103, .	4.7	6
78	Frequency Spectra and Probability Distributions for Quantum Fluctuations. <i>International Journal of Theoretical Physics</i> , 2007, 46, 2218-2226.	1.2	5
79	Negative energy seen by accelerated observers. <i>Physical Review D</i> , 2013, 87, .	4.7	5
80	Noncancellation of quantum geometry fluctuations. <i>Physical Review D</i> , 2014, 89, .	4.7	5
81	Subvacuum effects on light propagation. <i>Physical Review A</i> , 2019, 99, .	2.5	5
82	Vacuum radiation pressure fluctuations on atoms. <i>Physical Review A</i> , 2021, 104, .	2.5	5
83	Large zero point density fluctuations in fluids. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
84	Decoherence and Vacuum Fluctuations. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 741-747.	3.8	4
85	Quantum stress tensor fluctuations and primordial gravity waves. <i>Physical Review D</i> , 2017, 95, .	4.7	4
86	NEGATIVE ENERGY DENSITIES IN QUANTUM FIELD THEORY. , 2010, , .		4
87	D3: QUANTUM FIELD THEORY IN CURVED SPACETIME. , 2002, , .		3
88	Spacetime geometry fluctuations and geodesic deviation. <i>Physical Review D</i> , 2018, 98, .	4.7	3
89	Electric field and voltage fluctuations in the Casimir effect. <i>Physical Review D</i> , 2022, 105, .	4.7	3
90	Vacuum decay induced by quantum fluctuations. <i>Physical Review D</i> , 2022, 105, .	4.7	3

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91	Contributions of vacuum and plasmon modes to the force on a small sphere near a plate. Journal of Physics A, 2006, 39, 6365-6370.	1.6	2
92	Maximal subvacuum effects: A single mode example. Physical Review D, 2018, 98, .	4.7	2
93	Quantum stress tensor fluctuation effects in inflationary cosmology. Journal of Physics: Conference Series, 2011, 330, 012006.	0.4	1
94	QUANTUM MAGNETIC FIELD FLUCTUATIONS AND ELECTRON COHERENCE. , 1991, , .		0
95	Quantum stress tensor fluctuations. AIP Conference Proceedings, 2000, , .	0.4	0
96	Quantum Modifications to Gravity Waves in de Sitter Spacetime. Journal of Physics: Conference Series, 2011, 314, 012121.	0.4	0
97	Ford and Svaiter Reply:. Physical Review Letters, 2011, 106, .	7.8	0
98	Classical enhancement of quantum vacuum fluctuations. Physical Review D, 2017, 95, .	4.7	0
99	Quantum-induced birefringence in nonlinear optical materials. Physical Review A, 2019, 100, .	2.5	0
100	QUASI-OSCILLATORY CASIMIR FORCES. , 2006, , .		0
101	ENHANCED VACUUM FLUCTUATIONS NEAR THE FOCUS OF A PARABOLIC MIRROR. , 2006, , .		0
102	COMMENTS ON THE ALLOWED SPATIAL DISTRIBUTIONS OF NEGATIVE ENERGY. , 2006, , .		0
103	Signatures of Spacetime Geometry Fluctuations. , 2006, , .		0