

Larry Ford

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6395486/publications.pdf>

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 | Electric field and voltage fluctuations in the Casimir effect. Physical Review D, 2022, 105, . | 4.7 | 3 |
| 2 | Vacuum decay induced by quantum fluctuations. Physical Review D, 2022, 105, . | 4.7 | 3 |
| 3 | Space and time averaged quantum stress tensor fluctuations. Physical Review D, 2021, 103, . | 4.7 | 6 |
| 4 | Vacuum radiation pressure fluctuations on atoms. Physical Review A, 2021, 104, . | 2.5 | 5 |
| 5 | Cosmological particle production: a review. Reports on Progress in Physics, 2021, 84, 116901. | 20.1 | 32 |
| 6 | Probability distributions for space and time averaged quantum stress tensors. Physical Review D, 2020, 101, . | 4.7 | 12 |
| 7 | Large zero point density fluctuations in fluids. Physical Review Research, 2020, 2, . | 3.6 | 5 |
| 8 | Quantum-induced birefringence in nonlinear optical materials. Physical Review A, 2019, 100, . | 2.5 | 0 |
| 9 | Subvacuum effects on light propagation. Physical Review A, 2019, 99, . | 2.5 | 5 |
| 10 | Spacetime geometry fluctuations and geodesic deviation. Physical Review D, 2018, 98, . | 4.7 | 3 |
| 11 | Maximal subvacuum effects: A single mode example. Physical Review D, 2018, 98, . | 4.7 | 2 |
| 12 | Vacuum quantum stress tensor fluctuations: A diagonalization approach. Physical Review D, 2018, 97, . | 4.7 | 9 |
| 13 | Classical enhancement of quantum vacuum fluctuations. Physical Review D, 2017, 95, . | 4.7 | 0 |
| 14 | Vacuum radiation pressure fluctuations and barrier penetration. Physical Review D, 2017, 96, . | 4.7 | 11 |
| 15 | Quantum stress tensor fluctuations and primordial gravity waves. Physical Review D, 2017, 95, . | 4.7 | 4 |
| 16 | Model for lightcone fluctuations due to stress tensor fluctuations. Physical Review D, 2016, 93, . | 4.7 | 14 |
| 17 | Quantum Gravitational Force Between Polarizable Objects. Physical Review Letters, 2016, 116, 151301. | 7.8 | 24 |
| 18 | Graviton creation by small scale factor oscillations in an expanding universe. Physical Review D, 2016, 94, . | 4.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Quantum electric field fluctuations and potential scattering. Physical Review D, 2015, 91, . | 4.7 | 14 |
| 20 | Probability distributions for quantum stress tensors measured in a finite time interval. Physical Review D, 2015, 92, . | 4.7 | 31 |
| 21 | Decoherence induced by long wavelength gravitons. Physical Review D, 2015, 91, . | 4.7 | 10 |
| 22 | Analog model for light propagation in semiclassical gravity. Physical Review D, 2014, 90, . | 4.7 | 9 |
| 23 | Noncancellation of quantum geometry fluctuations. Physical Review D, 2014, 89, . | 4.7 | 5 |
| 24 | Negative energy seen by accelerated observers. Physical Review D, 2013, 87, . | 4.7 | 5 |
| 25 | Probability distributions for quantum stress tensors in four dimensions. Physical Review D, 2012, 85, . | 4.7 | 59 |
| 26 | Quantum modifications to gravity waves in deSitter spacetime. Physical Review D, 2011, 83, . | 4.7 | 9 |
| 27 | Gravity waves from quantum stress tensor fluctuations in inflation. Physical Review D, 2011, 84, . | 4.7 | 15 |
| 28 | Quantum Modifications to Gravity Waves in de Sitter Spacetime. Journal of Physics: Conference Series, 2011, 314, 012121. | 0.4 | 0 |
| 29 | Quantum stress tensor fluctuation effects in inflationary cosmology. Journal of Physics: Conference Series, 2011, 330, 012006. | 0.4 | 1 |
| 30 | Model for noncancellation of quantum electric field fluctuations. Physical Review A, 2011, 84, . | 2.5 | 18 |
| 31 | Ford and Svaiter Reply:. Physical Review Letters, 2011, 106, . | 7.8 | 0 |
| 32 | NEGATIVE ENERGY DENSITIES IN QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2010, 25, 2355-2363. | 1.5 | 26 |
| 33 | Quantum stress tensor fluctuations of a conformal field and inflationary cosmology. Physical Review D, 2010, 82, . | 4.7 | 26 |
| 34 | Probability distributions of smeared quantum stress tensors. Physical Review D, 2010, 81, . | 4.7 | 60 |
| 35 | NEGATIVE ENERGY DENSITIES IN QUANTUM FIELD THEORY. , 2010, , . | | 4 |
| 36 | Brownian motion in Robertson-Walker spacetimes from electromagnetic vacuum fluctuations. Journal of Mathematical Physics, 2009, 50, . | 1.1 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Quantum Density Fluctuations in Classical Liquids. <i>Physical Review Letters</i> , 2009, 102, 030602. | 7.8 | 14 |
| 38 | DECOHERENCE AND RECOHERENCE IN MODEL QUANTUM SYSTEMS. <i>International Journal of Modern Physics A</i> , 2009, 24, 1705-1712. | 1.5 | 9 |
| 39 | Fluid analog model for boundary effects in field theory. <i>Physical Review D</i> , 2009, 80, . | 4.7 | 10 |
| 40 | Quantum light-cone fluctuations in compactified spacetimes. <i>Physical Review D</i> , 2009, 80, . | 4.7 | 32 |
| 41 | Enhanced black hole horizon fluctuations. <i>Physical Review D</i> , 2008, 78, . | 4.7 | 33 |
| 42 | Quantum Stress Tensor Fluctuations and their Physical Effects. <i>AIP Conference Proceedings</i> , 2008, , . | 0.4 | 9 |
| 43 | Enhanced geometry fluctuations in Minkowski and black hole spacetimes. <i>Classical and Quantum Gravity</i> , 2008, 25, 154006. | 4.0 | 9 |
| 44 | Possible constraints on the duration of inflationary expansion from quantum stress tensor fluctuations. <i>Physical Review D</i> , 2007, 75, . | 4.7 | 31 |
| 45 | Frequency Spectra and Probability Distributions for Quantum Fluctuations. <i>International Journal of Theoretical Physics</i> , 2007, 46, 2218-2226. | 1.2 | 5 |
| 46 | Spectral line broadening and angular blurring due to spacetime geometry fluctuations. <i>Physical Review D</i> , 2006, 74, . | 4.7 | 29 |
| 47 | Contributions of vacuum and plasmon modes to the force on a small sphere near a plate. <i>Journal of Physics A</i> , 2006, 39, 6365-6370. | 1.6 | 2 |
| 48 | QUASI-OSCILLATORY CASIMIR FORCES. , 2006, , . | | 0 |
| 49 | ENHANCED VACUUM FLUCTUATIONS NEAR THE FOCUS OF A PARABOLIC MIRROR. , 2006, , . | | 0 |
| 50 | COMMENTS ON THE ALLOWED SPATIAL DISTRIBUTIONS OF NEGATIVE ENERGY. , 2006, , . | | 0 |
| 51 | Signatures of Spacetime Geometry Fluctuations. , 2006, , . | | 0 |
| 52 | Stochastic Spacetime and Brownian Motion of Test Particles. <i>International Journal of Theoretical Physics</i> , 2005, 44, 1753-1768. | 1.2 | 27 |
| 53 | Stress tensor correlators in the Schwinger-Keldysh formalism. <i>Classical and Quantum Gravity</i> , 2005, 22, 1637-1645. | 4.0 | 56 |
| 54 | STOCHASTIC GRAVITY AND THE LANGEVIN-RAYCHAUDHURI EQUATION. <i>International Journal of Modern Physics A</i> , 2005, 20, 2364-2373. | 1.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | SPACETIME IN SEMICLASSICAL GRAVITY. , 2005, , 293-310. | | 14 |
| 56 | Minkowski vacuum stress tensor fluctuations. Physical Review D, 2005, 72, . | 4.7 | 29 |
| 57 | Electromagnetic field stress tensor between dielectric half-spaces. Physical Review D, 2005, 72, . | 4.7 | 13 |
| 58 | External Time-Varying Fields and Electron Coherence. Physical Review Letters, 2004, 92, 250402. | 7.8 | 16 |
| 59 | Effects of quantum stress tensor fluctuations with compact extra dimensions. Physical Review D, 2004, 70, . | 4.7 | 9 |
| 60 | Casimir force between a small dielectric sphere and a dielectric wall. Physical Review A, 2004, 70, . | 2.5 | 7 |
| 61 | Effects of stress tensor fluctuations upon focusing. Physical Review D, 2004, 70, . | 4.7 | 43 |
| 62 | Energy flux correlations and moving mirrors. Physical Review D, 2004, 70, . | 4.7 | 7 |
| 63 | Vacuum fluctuations and Brownian motion of a charged test particle near a reflecting boundary. Physical Review D, 2004, 70, . | 4.7 | 55 |
| 64 | Stress Tensor Fluctuations and Passive Quantum Gravity. International Journal of Theoretical Physics, 2003, 42, 15-26. | 1.2 | 49 |
| 65 | The Classical Singularity Theorems and Their Quantum Loopholes. International Journal of Theoretical Physics, 2003, 42, 1219-1227. | 1.2 | 21 |
| 66 | Estimate of the vibrational frequencies of spherical virus particles. Physical Review E, 2003, 67, 051924. | 2.1 | 46 |
| 67 | Focusing vacuum fluctuations. II. Physical Review A, 2002, 66, . | 2.5 | 9 |
| 68 | Fluctuations of the retarded van der Waals force. Physical Review A, 2002, 65, . | 2.5 | 29 |
| 69 | Energy density in the Casimir effect. Physical Review D, 2002, 66, . | 4.7 | 61 |
| 70 | D3: QUANTUM FIELD THEORY IN CURVED SPACETIME. , 2002, , . | | 3 |
| 71 | Quantum fluctuations of radiation pressure. Physical Review D, 2001, 64, . | 4.7 | 32 |
| 72 | Classical scalar fields and the generalized second law. Physical Review D, 2001, 64, . | 4.7 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Stress Tensor Fluctuations and Stochastic Spacetimes. International Journal of Theoretical Physics, 2000, 39, 1803-1815. | 1.2 | 26 |
| 74 | Quantum stress tensor fluctuations. AIP Conference Proceedings, 2000, , . | 0.4 | 0 |
| 75 | Light-cone fluctuations in flat spacetimes with nontrivial topology. Physical Review D, 1999, 60, . | 4.7 | 73 |
| 76 | Fluctuations of the Hawking flux. Physical Review D, 1999, 60, . | 4.7 | 58 |
| 77 | Vacuum energy density near fluctuating boundaries. Physical Review D, 1998, 58, . | 4.7 | 61 |
| 78 | Casimir force between a dielectric sphere and a wall: A model for amplification of vacuum fluctuations. Physical Review A, 1998, 58, 4279-4286. | 2.5 | 41 |
| 79 | Scalar field quantum inequalities in static spacetimes. Physical Review D, 1998, 57, 3489-3502. | 4.7 | 56 |
| 80 | Restrictions on negative energy density in flat spacetime. Physical Review D, 1997, 55, 2082-2089. | 4.7 | 127 |
| 81 | Cosmological and black hole horizon fluctuations. Physical Review D, 1997, 56, 2226-2235. | 4.7 | 78 |
| 82 | Quantum inequalities on the energy density in static Robertson-Walker spacetimes. Physical Review D, 1997, 55, 4813-4821. | 4.7 | 31 |
| 83 | The unphysical nature of 'warp drive'. Classical and Quantum Gravity, 1997, 14, 1743-1751. | 4.0 | 106 |
| 84 | Quantum field theory constrains traversable wormhole geometries. Physical Review D, 1996, 53, 5496-5507. | 4.7 | 133 |
| 85 | Gravitons and light cone fluctuations. II. Correlation functions. Physical Review D, 1996, 54, 2640-2646. | 4.7 | 47 |
| 86 | Gravitons and light cone fluctuations. Physical Review D, 1995, 51, 1692-1700. | 4.7 | 103 |
| 87 | Averaged energy conditions and quantum inequalities. Physical Review D, 1995, 51, 4277-4286. | 4.7 | 206 |
| 88 | Decoherence and Vacuum Fluctuations. Annals of the New York Academy of Sciences, 1995, 755, 741-747. | 3.8 | 4 |
| 89 | Semiclassical gravity theory and quantum fluctuations. Physical Review D, 1993, 47, 4510-4519. | 4.7 | 156 |
| 90 | Spectrum of the Casimir effect and the Lifshitz theory. Physical Review A, 1993, 48, 2962-2967. | 2.5 | 39 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Electromagnetic vacuum fluctuations and electron coherence. Physical Review D, 1993, 47, 5571-5580. | 4.7 | 49 |
| 92 | "Cosmic flashing" in four dimensions. Physical Review D, 1992, 46, 1328-1339. | 4.7 | 54 |
| 93 | Macroscopic detection of negative-energy fluxes. Physical Review D, 1992, 46, 4566-4573. | 4.7 | 20 |
| 94 | Constraints on negative-energy fluxes. Physical Review D, 1991, 43, 3972-3978. | 4.7 | 113 |
| 95 | QUANTUM MAGNETIC FIELD FLUCTUATIONS AND ELECTRON COHERENCE. , 1991, , . | | 0 |
| 96 | Spectrum of the Casimir effect. Physical Review D, 1988, 38, 528-532. | 4.7 | 50 |
| 97 | Graviton emission by a thermal bath of photons. Physical Review D, 1988, 38, 3657-3661. | 4.7 | 16 |
| 98 | Gravitational particle creation and inflation. Physical Review D, 1987, 35, 2955-2960. | 4.7 | 458 |
| 99 | Global symmetry breaking in two-dimensional flat spacetime and in de Sitter spacetime. Physical Review D, 1986, 33, 2833-2839. | 4.7 | 32 |
| 100 | Quantum radiation by moving mirrors. Physical Review D, 1982, 25, 2569-2575. | 4.7 | 140 |
| 101 | Effects of field interactions upon particle creation in Robertson-Walker universes. Journal of Physics A, 1980, 13, 961-968. | 1.6 | 62 |
| 102 | Infrared divergences in a class of Robertson-Walker universes. Physical Review D, 1977, 16, 245-250. | 4.7 | 186 |
| 103 | Quantized gravitational wave perturbations in Robertson-Walker universes. Physical Review D, 1977, 16, 1601-1608. | 4.7 | 229 |