# Ted Jacobson

## List of Publications by Year
## in descending order

| 76 papers | 8,207 citations | 81900 39 h-index | 88630 70 g-index |
|---|---|---|---|
| 77 all docs | 77 docs citations | 77 times ranked | 3039 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Rotating black holes in Einstein-aether theory. Classical and Quantum Gravity, 2022, 39, 125001. | 4.0 | 10 |
| 2 | Phonon redshift and Hubble friction in an expanding BEC. SciPost Physics, 2021, 10, . | 4.9 | 7 |
| 3 | Diffeomorphism invariance and the black hole information paradox. Physical Review D, 2019, 100, . | 4.7 | 19 |
| 4 | Blandford-Znajek process <i>inÂvacuo</i> and its holographic dual. Physical Review D, 2019, 99, . | 4.7 | 6 |
| 5 | Spacetime equilibrium at negative temperature and the attraction of gravity. International Journal of Modern Physics D, 2019, 28, 1944016. | 2.1 | 12 |
| 6 | Entropy from Carnot to Bekenstein. , 2019, , 73-87. | | 1 |
| 7 | Holographic complexity and volume. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 33 |
| 8 | Area deficits and the Belâ€"Robinson tensor. Classical and Quantum Gravity, 2018, 35, 085005. | 4.0 | 11 |
| 9 | Spin on a 4D Feynman Checkerboard. International Journal of Theoretical Physics, 2017, 56, 129-144. | 1.2 | 3 |
| 10 | Membrane paradigm for Einstein-Gauss-Bonnet gravity. Physical Review D, 2017, 95, . | 4.7 | 10 |
| 11 | Mechanism of stimulated Hawking radiation in a laboratory Bose-Einstein condensate. Physical Review A, 2017, 96, . | 2.5 | 21 |
| 12 | Entanglement Equilibrium and the Einstein Equation. Physical Review Letters, 2016, 116, 201101. | 7.8 | 160 |
| 13 | BLACK HOLE ENTROPY AND THE RENORMALIZATION GROUP. , 2015, , . | | 0 |
| 14 | Structure of Aristotelian electrodynamics. Physical Review D, 2015, 92, . | 4.7 | 7 |
| 15 | Nonaxisymmetric Poynting jets. Physical Review D, 2015, 92, . | 4.7 | 10 |
| 16 | Variations on an aethereal theme. Physical Review D, 2015, 92, . | 4.7 | 16 |
| 17 | Black hole entropy and Lorentz-diffeomorphism Noether charge. Physical Review D, 2015, 92, . | 4.7 | 74 |
| 18 | Spacetime approach to force-free magnetospheres. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2500-2534. | 4.4 | 101 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | Exact solutions to force-free electrodynamics in black hole backgrounds. Classical and Quantum Gravity, 2013, 30, 195012. | 4.0 | 52 |
| 20 | Black hole entanglement entropy and the renormalization group. Physical Review D, 2013, 87, . | 4.7 | 19 |
| 21 | BOUNDARY UNITARITY AND THE BLACK HOLE INFORMATION PARADOX. International Journal of Modern Physics D, 2013, 22, 1342002. | 2.1 | 31 |
| 22 | On horizon structure of bimetric spacetimes. Classical and Quantum Gravity, 2012, 29, 065009. | 4.0 | 53 |
| 23 | GRAVITATION AND VACUUM ENTANGLEMENT ENTROPY. International Journal of Modern Physics D, 2012, 21, 1242006. | 2.1 | 30 |
| 24 | Horizon entropy and higher curvature equations of state. Journal of Physics: Conference Series, 2012, 405, 012031. | 0.4 | 0 |
| 25 | Horizon entropy and higher curvature equations of state. Physical Review D, 2012, 85, . | 4.7 | 37 |
| 26 | Cosmic alignment of the aether. Physical Review D, 2011, 83, . | 4.7 | 36 |
| 27 | Black holes in Einstein-aether and Hořava-Lifshitz gravity. Physical Review D, 2011, 83, . | 4.7 | 190 |
| 28 | Initial value constraints with tensor matter. Classical and Quantum Gravity, 2011, 28, 245011. | 4.0 | 18 |
| 29 | A Positive-Energy Theorem for Einstein-Aether and Hořava Gravity. Physical Review Letters, 2011, 107, 191102. | 7.8 | 62 |
| 30 | Black Hole Thermodynamics and Lorentz Symmetry. Foundations of Physics, 2010, 40, 1076-1080. | 1.3 | 39 |
| 31 | Spinning Black Holes as Particle Accelerators. Physical Review Letters, 2010, 104, 021101. | 7.8 | 162 |
| 32 | Destroying black holes with test bodies. Journal of Physics: Conference Series, 2010, 222, 012041. | 0.4 | 32 |
| 33 | Extended Hořava gravity and Einstein-aether theory. Physical Review D, 2010, 81, . | 4.7 | 154 |
| 34 | Coupling the inflaton to an expanding aether. Physical Review D, 2010, 82, . | 4.7 | 49 |
| 35 | Overspinning a Black Hole with a Test Body. Physical Review Letters, 2009, 103, 141101. | 7.8 | 162 |
| 36 | Horizon surface gravity as 2D geodesic expansion. Classical and Quantum Gravity, 2008, 25, 195009. | 4.0 | 9 |

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|---|---------|----|-----------| 
| 37 | EINSTEIN-Ã†THER GRAVITY: THEORY AND OBSERVATIONAL CONSTRAINTS. , 2008, , . | | 5 |
| 38 | Lorentz violation and perpetual motion. Physical Review D, 2007, 75, . | 4.7 | 65 |
| 39 | Neutron stars in Einstein-aether theory. Physical Review D, 2007, 76, . | 4.7 | 74 |
| 40 | Numerical simulations of gravitational collapse in Einstein-aether theory. Physical Review D, 2007, 76, . | 4.7 | 68 |
| 41 | Black hole entanglement entropy regularized in a freely falling frame. Physical Review D, 2007, 76, . | 4.7 | 29 |
| 42 | Nonequilibrium Thermodynamics of Spacetime. Physical Review Letters, 2006, 96, 121301. | 7.8 | 380 |
| 43 | Spherical solutions in Einstein-aether theory: static aether and stars. Classical and Quantum Gravity, 2006, 23, 5625-5642. | 4.0 | 98 |
| 44 | Post-Newtonian parameters and constraints on Einstein-aether theory. Physical Review D, 2006, 73, . | 4.7 | 146 |
| 45 | Lorentz violation at high energy: Concepts, phenomena, and astrophysical constraints. Annals of Physics, 2006, 321, 150-196. | 2.8 | 308 |
| 46 | Black holes in Einstein-aether theory. Classical and Quantum Gravity, 2006, 23, 5643-5660. | 4.0 | 130 |
| 47 | Two-dimensional gravity with a dynamical aether. Physical Review D, 2006, 74, . | 4.7 | 21 |
| 48 | EINSTEIN-Ã†THER THEORY. , 2006, , . | | 10 |
| 49 | Black Hole Entropy: Inside or Out?. International Journal of Theoretical Physics, 2005, 44, 1807-1837. | 1.2 | 39 |
| 50 | Introduction to Quantum Fields in Curved Spacetime and the Hawking Effect. , 2005, , 39-89. | | 30 |
| 51 | Quantum field theory on a growing lattice. Journal of High Energy Physics, 2004, 2004, 024-024. | 4.7 | 15 |
| 52 | Static post-Newtonian equivalence of general relativity and gravity with a dynamical preferred frame. Physical Review D, 2004, 69, . | 4.7 | 96 |
| 53 | Horizon Entropy. Foundations of Physics, 2003, 33, 323-348. | 1.3 | 149 |
| 54 | Threshold configurations in the presence of Lorentz violating dispersion relations. Physical Review D, 2003, 67, . | 4.7 | 40 |

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|---|---------|----|-----------| 
| 55 | TeV astrophysics constraints on Planck scale Lorentz violation. Physical Review D, 2002, 66, . | 4.7 | 155 |
| 56 | Gravity with a dynamical preferred frame. Physical Review D, 2001, 64, . | 4.7 | 673 |
| 57 | Generally covariant model of a scalar field with high frequency dispersion and the cosmological horizon problem. Physical Review D, 2001, 63, . | 4.7 | 65 |
| 58 | Trans-Planckian Redshifts and the Substance of the Space-Time River. Progress of Theoretical Physics Supplement, 1999, 136, 1-17. | 0.1 | 149 |
| 59 | Hawking radiation on a falling lattice. Physical Review D, 1999, 61, . | 4.7 | 34 |
| 60 | Black hole lasers. Physical Review D, 1999, 59, . | 4.7 | 137 |
| 61 | On the nature of black hole entropy. , 1999, , . | | 22 |
| 62 | Comment on accelerated detectors and temperature in (anti-) de Sitter spaces. Classical and Quantum Gravity, 1998, 15, 251-253. | 4.0 | 32 |
| 63 | Lattice black holes. Physical Review D, 1998, 57, 6269-6279. | 4.7 | 45 |
| 64 | Hawking spectrum and high frequency dispersion. Physical Review D, 1996, 54, 1568-1586. | 4.7 | 282 |
| 65 | On the origin of the outgoing black hole modes. Physical Review D, 1996, 53, 7082-7088. | 4.7 | 66 |
| 66 | Thermodynamics of Spacetime: The Einstein Equation of State. Physical Review Letters, 1995, 75, 1260-1263. | 7.8 | 1,644 |
| 67 | Increase of black hole entropy in higher curvature gravity. Physical Review D, 1995, 52, 3518-3528. | 4.7 | 144 |
| 68 | Note on Hartle-Hawking vacua. Physical Review D, 1994, 50, R6031-R6032. | 4.7 | 46 |
| 69 | On black hole entropy. Physical Review D, 1994, 49, 6587-6598. | 4.7 | 539 |
| 70 | The spin holonomy group in general relativity. Communications in Mathematical Physics, 1993, 155, 261-276. | 2.2 | 8 |
| 71 | Black hole entropy and higher curvature interactions. Physical Review Letters, 1993, 70, 3684-3687. | 7.8 | 322 |
| 72 | Black hole radiation in the presence of a short distance cutoff. Physical Review D, 1993, 48, 728-741. | 4.7 | 141 |

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|---|---------|-----|-----------|
| 73 | General relativity without the metric. Physical Review Letters, 1989, 63, 2325-2328. | 7.8 | 147 |
| 74 | A new characterization of half-flat solutions to Einstein's equation. Communications in Mathematical Physics, 1988, 115, 631-648. | 2.2 | 82 |
| 75 | The left-handed spin connection as a variable for canonical gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 196, 39-42. | 4.1 | 111 |
| 76 | Random walk representations for spinor and vector propagators. Journal of Mathematical Physics, 1985, 26, 1600-1604. | 1.1 | 9 |