

Ted Jacobson

List of Publications by Year in descending order

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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	Thermodynamics of Spacetime: The Einstein Equation of State. <i>Physical Review Letters</i> , 1995, 75, 1260-1263.	7.8	1,644
2	Gravity with a dynamical preferred frame. <i>Physical Review D</i> , 2001, 64, .	4.7	673
3	On black hole entropy. <i>Physical Review D</i> , 1994, 49, 6587-6598.	4.7	539
4	Nonequilibrium Thermodynamics of Spacetime. <i>Physical Review Letters</i> , 2006, 96, 121301.	7.8	380
5	Black hole entropy and higher curvature interactions. <i>Physical Review Letters</i> , 1993, 70, 3684-3687.	7.8	322
6	Lorentz violation at high energy: Concepts, phenomena, and astrophysical constraints. <i>Annals of Physics</i> , 2006, 321, 150-196.	2.8	308
7	Hawking spectrum and high frequency dispersion. <i>Physical Review D</i> , 1996, 54, 1568-1586.	4.7	282
8	Black holes in Einstein-aether and Ho \checkmark TM ava-Lifshitz gravity. <i>Physical Review D</i> , 2011, 83, .	4.7	190
9	Overspinning a Black Hole with a Test Body. <i>Physical Review Letters</i> , 2009, 103, 141101.	7.8	162
10	Spinning Black Holes as Particle Accelerators. <i>Physical Review Letters</i> , 2010, 104, 021101.	7.8	162
11	Entanglement Equilibrium and the Einstein Equation. <i>Physical Review Letters</i> , 2016, 116, 201101.	7.8	160
12	TeV astrophysics constraints on Planck scale Lorentz violation. <i>Physical Review D</i> , 2002, 66, .	4.7	155
13	Extended Ho \checkmark TM ava gravity and Einstein-aether theory. <i>Physical Review D</i> , 2010, 81, .	4.7	154
14	Trans-Planckian Redshifts and the Substance of the Space-Time River. <i>Progress of Theoretical Physics Supplement</i> , 1999, 136, 1-17.	0.1	149
15	Horizon Entropy. <i>Foundations of Physics</i> , 2003, 33, 323-348.	1.3	149
16	General relativity without the metric. <i>Physical Review Letters</i> , 1989, 63, 2325-2328.	7.8	147
17	Post-Newtonian parameters and constraints on Einstein-aether theory. <i>Physical Review D</i> , 2006, 73, .	4.7	146
18	Increase of black hole entropy in higher curvature gravity. <i>Physical Review D</i> , 1995, 52, 3518-3528.	4.7	144

#	ARTICLE	IF	CITATIONS
19	Black hole radiation in the presence of a short distance cutoff. <i>Physical Review D</i> , 1993, 48, 728-741.	4.7	141
20	Black hole lasers. <i>Physical Review D</i> , 1999, 59, .	4.7	137
21	Black holes in Einstein-aether theory. <i>Classical and Quantum Gravity</i> , 2006, 23, 5643-5660.	4.0	130
22	The left-handed spin connection as a variable for canonical gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 196, 39-42.	4.1	111
23	Spacetime approach to force-free magnetospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2500-2534.	4.4	101
24	Spherical solutions in Einstein-aether theory: static aether and stars. <i>Classical and Quantum Gravity</i> , 2006, 23, 5625-5642.	4.0	98
25	Static post-Newtonian equivalence of general relativity and gravity with a dynamical preferred frame. <i>Physical Review D</i> , 2004, 69, .	4.7	96
26	A new characterization of half-flat solutions to Einstein's equation. <i>Communications in Mathematical Physics</i> , 1988, 115, 631-648.	2.2	82
27	Neutron stars in Einstein-aether theory. <i>Physical Review D</i> , 2007, 76, .	4.7	74
28	Black hole entropy and Lorentz-diffeomorphism Noether charge. <i>Physical Review D</i> , 2015, 92, .	4.7	74
29	Numerical simulations of gravitational collapse in Einstein-aether theory. <i>Physical Review D</i> , 2007, 76, .	4.7	68
30	On the origin of the outgoing black hole modes. <i>Physical Review D</i> , 1996, 53, 7082-7088.	4.7	66
31	Generally covariant model of a scalar field with high frequency dispersion and the cosmological horizon problem. <i>Physical Review D</i> , 2001, 63, .	4.7	65
32	Lorentz violation and perpetual motion. <i>Physical Review D</i> , 2007, 75, .	4.7	65
33	A Positive-Energy Theorem for Einstein-Aether and Ho ^Å ™ava Gravity. <i>Physical Review Letters</i> , 2011, 107, 191102.	7.8	62
34	On horizon structure of bimetric spacetimes. <i>Classical and Quantum Gravity</i> , 2012, 29, 065009.	4.0	53
35	Exact solutions to force-free electrodynamics in black hole backgrounds. <i>Classical and Quantum Gravity</i> , 2013, 30, 195012.	4.0	52
36	Coupling the inflaton to an expanding aether. <i>Physical Review D</i> , 2010, 82, .	4.7	49

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37	Note on Hartle-Hawking vacua. <i>Physical Review D</i> , 1994, 50, R6031-R6032.	4.7	46
38	Lattice black holes. <i>Physical Review D</i> , 1998, 57, 6269-6279.	4.7	45
39	Threshold configurations in the presence of Lorentz violating dispersion relations. <i>Physical Review D</i> , 2003, 67, .	4.7	40
40	Black Hole Entropy: Inside or Out?. <i>International Journal of Theoretical Physics</i> , 2005, 44, 1807-1837.	1.2	39
41	Black Hole Thermodynamics and Lorentz Symmetry. <i>Foundations of Physics</i> , 2010, 40, 1076-1080.	1.3	39
42	Horizon entropy and higher curvature equations of state. <i>Physical Review D</i> , 2012, 85, .	4.7	37
43	Cosmic alignment of the aether. <i>Physical Review D</i> , 2011, 83, .	4.7	36
44	Hawking radiation on a falling lattice. <i>Physical Review D</i> , 1999, 61, .	4.7	34
45	Holographic complexity and volume. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	33
46	Comment on accelerated detectors and temperature in (anti-) de Sitter spaces. <i>Classical and Quantum Gravity</i> , 1998, 15, 251-253.	4.0	32
47	Destroying black holes with test bodies. <i>Journal of Physics: Conference Series</i> , 2010, 222, 012041.	0.4	32
48	BOUNDARY UNITARITY AND THE BLACK HOLE INFORMATION PARADOX. <i>International Journal of Modern Physics D</i> , 2013, 22, 1342002.	2.1	31
49	Introduction to Quantum Fields in Curved Spacetime and the Hawking Effect. , 2005, , 39-89.		30
50	GRAVITATION AND VACUUM ENTANGLEMENT ENTROPY. <i>International Journal of Modern Physics D</i> , 2012, 21, 1242006.	2.1	30
51	Black hole entanglement entropy regularized in a freely falling frame. <i>Physical Review D</i> , 2007, 76, .	4.7	29
52	On the nature of black hole entropy. , 1999, , .		22
53	Two-dimensional gravity with a dynamical aether. <i>Physical Review D</i> , 2006, 74, .	4.7	21
54	Mechanism of stimulated Hawking radiation in a laboratory Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 96, .	2.5	21

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55	Black hole entanglement entropy and the renormalization group. <i>Physical Review D</i> , 2013, 87, .	4.7	19
56	Diffeomorphism invariance and the black hole information paradox. <i>Physical Review D</i> , 2019, 100, .	4.7	19
57	Initial value constraints with tensor matter. <i>Classical and Quantum Gravity</i> , 2011, 28, 245011.	4.0	18
58	Variations on an aethereal theme. <i>Physical Review D</i> , 2015, 92, .	4.7	16
59	Quantum field theory on a growing lattice. <i>Journal of High Energy Physics</i> , 2004, 2004, 024-024.	4.7	15
60	Spacetime equilibrium at negative temperature and the attraction of gravity. <i>International Journal of Modern Physics D</i> , 2019, 28, 1944016.	2.1	12
61	Area deficits and the Belâ€“Robinson tensor. <i>Classical and Quantum Gravity</i> , 2018, 35, 085005.	4.0	11
62	Nonaxisymmetric Poynting jets. <i>Physical Review D</i> , 2015, 92, .	4.7	10
63	Membrane paradigm for Einstein-Gauss-Bonnet gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	10
64	EINSTEIN-Ã†THER THEORY. , 2006, , .		10
65	Rotating black holes in Einstein-aether theory. <i>Classical and Quantum Gravity</i> , 2022, 39, 125001.	4.0	10
66	Random walk representations for spinor and vector propagators. <i>Journal of Mathematical Physics</i> , 1985, 26, 1600-1604.	1.1	9
67	Horizon surface gravity as 2D geodesic expansion. <i>Classical and Quantum Gravity</i> , 2008, 25, 195009.	4.0	9
68	The spin holonomy group in general relativity. <i>Communications in Mathematical Physics</i> , 1993, 155, 261-276.	2.2	8
69	Structure of Aristotelian electrodynamics. <i>Physical Review D</i> , 2015, 92, .	4.7	7
70	Phonon redshift and Hubble friction in an expanding BEC. <i>SciPost Physics</i> , 2021, 10, .	4.9	7
71	Blandford-Znajek process $\langle i \rangle$ inâ€“vacuo</i> and its holographic dual. <i>Physical Review D</i> , 2019, 99, .	4.7	6
72	EINSTEIN-Ã†THER GRAVITY: THEORY AND OBSERVATIONAL CONSTRAINTS. , 2008, , .		5

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73	Spin on a 4D Feynman Checkerboard. International Journal of Theoretical Physics, 2017, 56, 129-144.	1.2	3
74	Entropy from Carnot to Bekenstein. , 2019, , 73-87.		1
75	Horizon entropy and higher curvature equations of state. Journal of Physics: Conference Series, 2012, 405, 012031.	0.4	0
76	BLACK HOLE ENTROPY AND THE RENORMALIZATION GROUP. , 2015, , .		0