David Garfinkle

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9295737/publications.pdf

Version: 2024-02-01

186265 233421 2,096 79 28 45 citations h-index g-index papers 79 79 79 1162 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Gravitational wave memory and the wave equation. Classical and Quantum Gravity, 2022, 39, 135010.	4.0	5
2	Can Thorne-Żytkow objects source GW190814-type events?. Physical Review D, 2022, 105, .	4.7	3
3	A non-trivial PT-symmetric continuum Hamiltonian and its eigenstates and eigenvalues. Journal of Mathematical Physics, 2022, 63, .	1.1	1
4	A numerical stability analysis of mean curvature flow of noncompact hypersurfaces with type-II curvature blowup. Nonlinearity, 2021, 34, 6539-6560.	1.4	1
5	Electric field of a charge in the vicinity of a higher dimensional black hole. Physical Review D, 2021, 103, .	4.7	3
6	Dynamical attractors in contracting spacetimes dominated by kinetically coupled scalar fields. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 030.	5.4	3
7	Cosmological initial data for numerical relativity. Physical Review D, 2020, 102, .	4.7	5
8	A no-boundary method for numerical relativity. Classical and Quantum Gravity, 2020, 37, 045015.	4.0	1
9	Spike behavior in the approach to spacetime singularities. Physical Review D, 2020, 102, .	4.7	7
10	Hair loss in parity violating gravity. Classical and Quantum Gravity, 2019, 36, 115004.	4.0	17
11	Black hole entropy without microstates. Classical and Quantum Gravity, 2019, 36, 087002.	4.0	0
12	White holes in Einstein-aether theory. Classical and Quantum Gravity, 2018, 35, 035006.	4.0	7
13	The shape of the orbit in FLRW spacetimes. Journal of Physics Communications, 2018, 2, 111001.	1.2	2
14	The memory effect for particle scattering in even spacetime dimensions. Classical and Quantum Gravity, 2017, 34, 145015.	4.0	32
15	Do spikes persist in a quantum treatment of spacetime singularities?. Physical Review D, 2017, 95, .	4.7	9
16	Gravitational wave memory in Î-CDM cosmology. Classical and Quantum Gravity, 2017, 34, 215002.	4.0	33
17	A selection rule for transitions in PT-symmetric quantum theory. AIP Advances, 2017, 7, .	1.3	5
18	Numerical relativity beyond astrophysics. Reports on Progress in Physics, 2017, 80, 016901.	20.1	5

#	Article	IF	Citations
19	A simple estimate of gravitational wave memory in binary black hole systems. Classical and Quantum Gravity, 2016, 33, 177001.	4.0	7
20	Gravitational wave memory in de Sitter spacetime. Physical Review D, 2016, 94, .	4.7	32
21	Resolving a gravitational wave memory paradox. General Relativity and Gravitation, 2015, 47, 1.	2.0	1
22	The 1965 Penrose singularity theorem. Classical and Quantum Gravity, 2015, 32, 124008.	4.0	119
23	Neutrino Radiation Showing a Christodoulou Memory Effect in General Relativity. Annales Henri Poincare, 2015, 16, 801-839.	1.7	22
24	Gravitational waves and their memory in general relativity. Journal of Differential Geometry, 2015, 20, 75-97.	1.0	2
25	Examination of a simple example of gravitational wave memory. Physical Review D, 2014, 90, .	4.7	30
26	Perturbative and gauge invariant treatment of gravitational wave memory. Physical Review D, 2014, 89,	4.7	88
27	Summary of session B3 at GR20/Amaldi10. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
28	Killing-Yano tensors in spaces admitting a hypersurface orthogonal Killing vector. Journal of Mathematical Physics, 2013, 54, 032501.	1.1	3
29	Summation by parts methods for spherical harmonic decompositions of the wave equation in any dimensions. Classical and Quantum Gravity, 2013, 30, 145003.	4.0	7
30	An electromagnetic analogue of gravitational wave memory. Classical and Quantum Gravity, 2013, 30, 195009.	4.0	114
31	Nonperturbative analysis of the evolution of cosmological perturbations through a nonsingular bounce. Physical Review D, 2013, 88, .	4.7	52
32	Non-astrophysical numerical relativity. Classical and Quantum Gravity, 2012, 29, 240301.	4.0	O
33	Gravitational collapse of thick domain walls. Classical and Quantum Gravity, 2012, 29, 095015.	4.0	2
34	Numerical simulations of singular spacetimes. Classical and Quantum Gravity, 2012, 29, 244003.	4.0	1
35	On field theory thermalization from gravitational collapse. Journal of High Energy Physics, 2012, 2012, 1.	4.7	67
36	SPIKY MIXMASTER DYNAMICS., 2012, , .		O

#	Article	IF	Citations
37	Nonstationary dark energy around a black hole. Physical Review D, 2011, 83, .	4.7	4
38	Gravitational collapse of k-essence. Journal of High Energy Physics, 2011, 2011, 1.	4.7	27
39	How extreme are extreme black holes?. Classical and Quantum Gravity, 2011, 28, 175005.	4.0	4
40	A Positive-Energy Theorem for Einstein-Aether and Hořava Gravity. Physical Review Letters, 2011, 107, 191102.	7.8	62
41	Killing tensors and symmetries. Classical and Quantum Gravity, 2010, 27, 095004.	4.0	9
42	Examining gravitational collapse with test scalar fields. Classical and Quantum Gravity, 2010, 27, 165019.	4.0	6
43	The motion of galaxy clusters in inhomogeneous cosmologies. Classical and Quantum Gravity, 2010, 27, 065002.	4.0	8
44	Linear stability analysis and the speed of gravitational waves in dynamical Chern-Simons modified gravity. Physical Review D, 2010, 82, .	4.7	24
45	The Parallelometer: a mechanical device to study curvature. Canadian Journal of Physics, 2009, 87, 615-617.	1.1	1
46	Spikes in the mixmaster regime of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>G</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> cosmolog Physical Review D, 2009, 79, .	ie s. .7	45
47	Comments on Bona–Massó-type slicing conditions in long-term black hole evolutions. Classical and Quantum Gravity, 2008, 25, 075007.	4.0	20
48	The modeling of degenerate neck pinch singularities in Ricci flow by Bryant solitons. Journal of Mathematical Physics, 2008, 49, 073505.	1.1	10
49	Evolution to a smooth universe in an ekpyrotic contracting phase with <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>w</mml:mi><mml:mi>><mml:mn>1</mml:mn></mml:mi></mml:math> . Physical Review D. 2008. 78	4.7	73
50	Numerical simulations of general gravitational singularities. Classical and Quantum Gravity, 2007, 24, S295-S306.	4.0	26
51	Numerical simulations of gravitational collapse in Einstein-aether theory. Physical Review D, 2007, 76, .	4.7	68
52	Inhomogeneous spacetimes as a dark energy model. Classical and Quantum Gravity, 2006, 23, 4811-4818.	4.0	58
53	The need for dark matter in galaxies. Classical and Quantum Gravity, 2006, 23, 1391-1392.	4.0	8
54	Well-posedness of the scale-invariant tetrad formulation of the vacuum Einstein equations. Classical and Quantum Gravity, 2005, 22, 2679-2686.	4.0	7

#	Article	IF	Citations
55	Numerical simulations of stiff fluid gravitational singularities. Physical Review D, 2005, 72, .	4.7	9
56	The fine structure of Gowdy spacetimes. Classical and Quantum Gravity, 2004, 21, S219-S231.	4.0	7
57	Numerical Simulations of Generic Singularities. Physical Review Letters, 2004, 93, 161101.	7.8	100
58	High velocity spikes in Gowdy spacetimes. Physical Review D, 2003, 67, .	4.7	18
59	Harmonic coordinate method for simulating generic singularities. Physical Review D, 2002, 65, .	4.7	161
60	Perturbations of an exact solution for $(2+1)$ -dimensional critical collapse. Physical Review D, 2002, 66,	4.7	15
61	Numerical evolution of Brill waves. Physical Review D, 2001, 63, .	4.7	44
62	Exact solution for (2+1)-dimensional critical collapse. Physical Review D, 2001, 63, .	4.7	39
63	Generalized entropy and Noether charge. Classical and Quantum Gravity, 2000, 17, 3317-3323.	4.0	32
64	Existence, uniqueness and other properties of the BCT (minimal strain lapse and shift) gauge. Classical and Quantum Gravity, 2000, 17, 3899-3904.	4.0	4
65	Symmetry-seeking spacetime coordinates. Classical and Quantum Gravity, 1999, 16, 4111-4123.	4.0	31
66	Metrics with distributional curvature. Classical and Quantum Gravity, 1999, 16, 4101-4109.	4.0	24
67	Choptuik scaling in six dimensions. Physical Review D, 1999, 60, .	4.7	19
68	Numerical simulations of Gowdy spacetimes on S2×S1×R. Physical Review D, 1999, 60, .	4.7	16
69	Phenomenology of the Gowdy universe onT3×R. Physical Review D, 1998, 57, 4767-4777.	4.7	54
70	Scaling of curvature in subcritical gravitational collapse. Physical Review D, 1998, 58, .	4.7	59
71	Ricci fall-off in static and stationary, globally hyperbolic, non-singular spacetimes. Classical and Quantum Gravity, 1997, 14, 139-151.	4.0	16
72	New algorithm for Mixmaster dynamics. Classical and Quantum Gravity, 1997, 14, L29-L36.	4.0	48

DAVID GARFINKLE

#	Article	IF	CITATIONS
73	Detection of computer generated gravitational waves in numerical cosmologies. General Relativity and Gravitation, 1995, 27, 511-527.	2.0	4
74	Traveling waves on a magnetic universe. Physical Review D, 1992, 45, 1188-1191.	4.7	12
75	Black string traveling waves. Physical Review D, 1992, 46, 4286-4288.	4.7	51
76	Corrections to the thin-wall approximation in general relativity. Physical Review D, 1990, 41, 1889-1894.	4.7	47
77	Dynamics of domain walls and strings. Physical Review D, 1990, 42, 343-348.	4.7	41
78	Cosmic-string traveling waves. Physical Review D, 1990, 42, 1960-1963.	4.7	70
79	What is the relation betweenl̂"φandl̂¼for a cosmic string?. Physical Review D, 1988, 37, 2086-2091.	4.7	29