

Niayesh Afshordi

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,712
citations

117625

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133252

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92
all docs

92
docs citations

92
times ranked

2973
citing authors

#	ARTICLE	IF	CITATIONS
1	Spacing statistics of energy spectra: random matrices, black hole thermalization, and echoes. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
2	The effect of non-ionizing excitations on the diffusion of ion species and inter-track correlations in FLASH ultra-high dose rate radiotherapy. Physics in Medicine and Biology, 2022, 67, 105005.	3.0	11
3	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
4	Non-Gaussian signatures of a thermal Big Bang. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 005.	5.4	2
5	Multimessenger cosmology: Correlating cosmic microwave background and stochastic gravitational wave background measurements. Physical Review D, 2021, 103, .	4.7	28
6	How loud are echoes from exotic compact objects?. Physical Review D, 2021, 103, .	4.7	18
7	Extracting Hawking radiation near the horizon of AdS black holes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
8	Electromagnetic albedo of Quantum Black Holes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
9	How dark are filaments in the cosmic web?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3158-3170.	4.4	4
10	Quantum black hole seismology. I. Echoes, ergospheres, and spectra. Physical Review D, 2020, 102, .	4.7	16
11	Quantum black hole seismology. II. Applications to astrophysical black holes. Physical Review D, 2020, 102, .	4.7	5
12	Echoes in the Kerr/CFT correspondence. Physical Review D, 2020, 102, .	4.7	6
13	Amending the halo model to satisfy cosmological conservation laws. Physical Review D, 2020, 101, .	4.7	14
14	Echoes from braneworld black holes. Physical Review D, 2020, 101, .	4.7	45
15	Gravitational potential from small-scale clustering in action space: application to Gaia Data Release 2. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3061-3080.	4.4	3
16	Echoes from quantum black holes. Physical Review D, 2020, 101, .	4.7	54
17	On reflectivity of quantum black hole horizons. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 016-016.	5.4	39
18	Quantum Black Holes in the Sky. Universe, 2020, 6, 43.	2.5	38

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19	Quantum nature of black holes: fast scrambling versus echoes. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	17
20	Does history repeat itself? Periodic Time Cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 058-058.	5.4	1
21	Echoes from the abyss: a highly spinning black hole remnant for the binary neutron star merger GW170817. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 010-010.	5.4	47
22	Probing microstructure of black hole spacetimes with gravitational wave echoes. <i>Physical Review D</i> , 2019, 99, .	4.7	43
23	$\langle H^2 \rangle < \mathbb{1} \rangle$ tension as a hint for a transition in gravitational theory. <i>Physical Review D</i> , 2019, 99, .	4.7	60
24	Temperatures of renormalizable quantum field theories in curved spacetime. <i>Classical and Quantum Gravity</i> , 2018, 35, 225008.	4.0	2
25	Cosmological tests of Everpresent $\hat{\mathbb{1}}$. <i>Classical and Quantum Gravity</i> , 2018, 35, 194002.	4.0	16
26	Cosmological zero modes. <i>Physical Review D</i> , 2018, 98, .	4.7	2
27	Searching for dark matter annihilation from individual halos: uncertainties, scatter and signal-to-noise ratios. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 019-019.	5.4	10
28	Black hole echology: The observer's manual. <i>Physical Review D</i> , 2018, 97, .	4.7	50
29	From Planck Data to Planck Era: Observational Tests of Holographic Cosmology. <i>Physical Review Letters</i> , 2017, 118, 041301.	7.8	44
30	Echoes from the abyss: Tentative evidence for Planck-scale structure at black hole horizons. <i>Physical Review D</i> , 2017, 96, .	4.7	217
31	Off-shell dark matter: A cosmological relic of quantum gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	6
32	Constraining holographic cosmology using Planck data. <i>Physical Review D</i> , 2017, 95, .	4.7	14
33	Accretion in Radiative Equipartition (AiRE) Disks. <i>Astrophysical Journal</i> , 2017, 843, 22.	4.5	1
34	Dynamical friction in the primordial neutrino sea. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2164-2175.	4.4	7
35	Cosmological bounds on TeV-scale physics and beyond. <i>Physical Review D</i> , 2016, 93, .	4.7	6
36	Cosmic censorship in Lorentz-violating theories of gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	10

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37	Critical geometry of a thermal big bang. <i>Physical Review D</i> , 2016, 94, .	4.7	20
38	“Firewall” phenomenology with astrophysical neutrinos. <i>Classical and Quantum Gravity</i> , 2016, 33, 235017.	4.0	5
39	Universal clustering of dark matter in phase space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 986-992.	4.4	13
40	Concentration, ellipsoidal collapse, and the densest dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3068-3078.	4.4	29
41	A Non-local Reality: Is There a Phase Uncertainty in Quantum Mechanics?. <i>Foundations of Physics</i> , 2015, 45, 1620-1644.	1.3	0
42	Emergent spacetime in stochastically evolving dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 739, 117-124.	4.1	16
43	How does pressure gravitate? Cosmological constant problem confronts observational cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 049-049.	5.4	7
44	Transient weak lensing by cosmological dark matter microhaloes. <i>Physical Review D</i> , 2014, 89, .	4.7	10
45	Cosmological black holes from self-gravitating fields. <i>Physical Review D</i> , 2014, 89, .	4.7	23
46	Dynamical emergence of universal horizons during the formation of black holes. <i>Physical Review D</i> , 2014, 89, .	4.7	32
47	Thermal tachyacoustic cosmology. <i>Physical Review D</i> , 2014, 90, .	4.7	7
48	Schwinger effect in 4D de Sitter space and constraints on magnetogenesis in the early universe. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	106
49	Empty black holes, firewalls, and the origin of Bekenstein’s Hawking entropy. <i>International Journal of Modern Physics D</i> , 2014, 23, 1443007.	2.1	29
50	Out of the white hole: a holographic origin for the Big Bang. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 005-005.	5.4	22
51	Horndeski theory meets the McVittie solution: A scalar field theory for accretion onto cosmological black holes. <i>Physical Review D</i> , 2014, 90, .	4.7	23
52	Clustering in the phase space of dark matter haloes – I. Results from the Aquarius simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1317-1328.	4.4	5
53	Clustering in the phase space of dark matter haloes – II. Stable clustering and dark matter annihilation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1329-1339.	4.4	16
54	First measurement of the bulk flow of nearby galaxies using the cosmic microwave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1617-1635.	4.4	41

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55	An optimal and model-independent measurement of the intracluster pressure profile – I. Methodology and first applications. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1788-1808.	4.4	1
56	A distinguished vacuum state for a quantum field in a curved spacetime: formalism, features, and cosmology. Journal of High Energy Physics, 2012, 2012, 1.	4.7	38
57	A ground state for the causal diamond in 2 dimensions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	25
58	Removal and mixing of the coronal gas from satellites in galaxy groups: cooling the intragroup gas. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3464-3476.	4.4	8
59	Prospects for detecting dark matter halo substructure with pulsar timing. Physical Review D, 2011, 84, .	4.7	46
60	Phenomenology of gravitational aether as a solution to the old cosmological constant problem. Physical Review D, 2011, 84, .	4.7	12
61	A theory of a spot. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 019-019.	5.4	28
62	Neutron stars and the cosmological constant problem. Physical Review D, 2011, 84, .	4.7	8
63	THE CASE FOR A DIRECTIONAL DARK MATTER DETECTOR AND THE STATUS OF CURRENT EXPERIMENTAL EFFORTS. International Journal of Modern Physics A, 2010, 25, 1-51.	1.5	151
64	Hierarchy in the phase space and dark matter astronomy. Physical Review D, 2010, 81, .	4.7	18
65	Do observations offer evidence for cosmological-scale extra dimensions?. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 030-030.	5.4	52
66	Stellar black holes and the origin of cosmic acceleration. Physical Review D, 2009, 80, .	4.7	25
67	Cuscuton and low-energy limit of Hořava-Lifshitz gravity. Physical Review D, 2009, 80, .	4.7	92
68	Hierarchical phase space structure of dark matter haloes: Tidal debris, caustics, and dark matter annihilation. Physical Review D, 2009, 79, .	4.7	13
69	Extended Limber approximation. Physical Review D, 2008, 78, .	4.7	295
70	Does the Planck Mass Run on the Cosmological-Horizon Scale?. Physical Review Letters, 2008, 100, 111101.	7.8	11
71	Primordial non-Gaussianity, statistics of collapsed objects, and the integrated Sachs-Wolfe effect. Physical Review D, 2008, 78, .	4.7	164
72	Fundamental Plane of Sunyaev-Zeldovich Clusters. Astrophysical Journal, 2008, 686, 201-205.	4.5	8

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73	Causal field theory with an infinite speed of sound. <i>Physical Review D</i> , 2007, 75, .	4.7	187
74	How well can (renormalized) perturbation theory predict dark matter clustering properties?. <i>Physical Review D</i> , 2007, 75, .	4.7	17
75	Cuscuton cosmology: Dark energy meets modified gravity. <i>Physical Review D</i> , 2007, 75, .	4.7	95
76	Missing thermal energy of the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 293-300.	4.4	65
77	Growth of hydrodynamic perturbations in accretion disks: Possible route to non-magnetic turbulence. <i>Advances in Space Research</i> , 2006, 38, 2877-2879.	2.6	10
78	Intracluster medium through three years of WMAP. <i>New Astronomy Reviews</i> , 2006, 50, 905-908.	12.8	0
79	Wilkinson Microwave Anisotropy Probe Constraints on the Intracluster Medium. <i>Astrophysical Journal</i> , 2005, 629, 1-14.	4.5	37
80	Bypass to Turbulence in Hydrodynamic Accretion Disks: An Eigenvalue Approach. <i>Astrophysical Journal</i> , 2005, 629, 383-396.	4.5	62
81	Coarse-grained back reaction in single scalar field driven inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 011-011.	5.4	20
82	Bypass to Turbulence in Hydrodynamic Accretion: Lagrangian Analysis of Energy Growth. <i>Astrophysical Journal</i> , 2005, 629, 373-382.	4.5	80
83	Instability of dark energy with mass-varying neutrinos. <i>Physical Review D</i> , 2005, 72, .	4.7	129
84	CMBB-mode polarization from Thomson scattering in the local universe. <i>Physical Review D</i> , 2005, 71, .	4.7	3
85	Do large-scale inhomogeneities explain away dark energy?. <i>Physical Review D</i> , 2005, 72, .	4.7	48
86	Integrated Sachs-Wolfe effect in cross-correlation: The observer's manual. <i>Physical Review D</i> , 2004, 70, .	4.7	106
87	Cross-correlation of the cosmic microwave background with the 2MASS galaxy survey: Signatures of dark energy, hot gas, and point sources. <i>Physical Review D</i> , 2004, 69, .	4.7	194
88	Primordial Black Holes as Dark Matter: The Power Spectrum and Evaporation of Early Structures. <i>Astrophysical Journal</i> , 2003, 594, L71-L74.	4.5	158
89	Geometrically Thin Disk Accreting into a Black Hole. <i>Astrophysical Journal</i> , 2003, 592, 354-367.	4.5	75
90	Mass-Temperature Relation of Galaxy Clusters: A Theoretical Study. <i>Astrophysical Journal</i> , 2002, 564, 669-682.	4.5	41

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91	Super-Hubble nonlinear perturbations during inflation. Physical Review D, 2001, 63, .	4.7	54