

Niayesh Afshordi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	2,861 citations	28 h-index	51 g-index
92 ext. papers	3,290 ext. citations	5.1 avg, IF	5.86 L-index

#	Paper	IF	Citations
89	Spacing statistics of energy spectra: random matrices, black hole thermalization, and echoes. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	
88	Multimessenger cosmology: Correlating cosmic microwave background and stochastic gravitational wave background measurements. <i>Physical Review D</i> , 2021 , 103,	4.9	7
87	How loud are echoes from exotic compact objects?. <i>Physical Review D</i> , 2021 , 103,	4.9	9
86	Extracting Hawking radiation near the horizon of AdS black holes. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
85	Electromagnetic albedo of Quantum Black Holes. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
84	Echoes in the Kerr/CFT correspondence. <i>Physical Review D</i> , 2020 , 102,	4.9	4
83	Amending the halo model to satisfy cosmological conservation laws. <i>Physical Review D</i> , 2020 , 101,	4.9	8
82	Echoes from braneworld black holes. <i>Physical Review D</i> , 2020 , 101,	4.9	14
81	Gravitational potential from small-scale clustering in action space: application to Gaia Data Release 2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 3061-3080	4.3	2
80	Echoes from quantum black holes. <i>Physical Review D</i> , 2020 , 101,	4.9	27
79	On reflectivity of quantum black hole horizons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 016-016	6.4	21
78	Quantum nature of black holes: fast scrambling versus echoes. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	11
77	How dark are filaments in the cosmic web?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 3158-3170	4.3	3
76	Quantum black hole seismology. I. Echoes, ergospheres, and spectra. <i>Physical Review D</i> , 2020 , 102,	4.9	5
75	Quantum black hole seismology. II. Applications to astrophysical black holes. <i>Physical Review D</i> , 2020 , 102,	4.9	2
74	Quantum Black Holes in the Sky. <i>Universe</i> , 2020 , 6, 43	2.5	18
73	Probing microstructure of black hole spacetimes with gravitational wave echoes. <i>Physical Review D</i> , 2019 , 99,	4.9	27

72	H0 tension as a hint for a transition in gravitational theory. <i>Physical Review D</i> , 2019 , 99,	4.9	47
71	Does history repeat itself? Periodic Time Cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 058-058	6.4	1
70	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	6.4	28
69	Cosmological zero modes. <i>Physical Review D</i> , 2018 , 98,	4.9	1
68	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	6.4	5
67	Black hole echology: The observer's manual. <i>Physical Review D</i> , 2018 , 97,	4.9	39
66	Temperatures of renormalizable quantum field theories in curved spacetime. <i>Classical and Quantum Gravity</i> , 2018 , 35, 225008	3.3	0
65	Cosmological tests of Everpresent Λ . <i>Classical and Quantum Gravity</i> , 2018 , 35, 194002	3.3	9
64	From Planck Data to Planck Era: Observational Tests of Holographic Cosmology. <i>Physical Review Letters</i> , 2017 , 118, 041301	7.4	29
63	Dynamical friction in the primordial neutrino sea. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 2164-2175	4.3	6
62	Echoes from the abyss: Tentative evidence for Planck-scale structure at black hole horizons. <i>Physical Review D</i> , 2017 , 96,	4.9	153
61	Off-shell dark matter: A cosmological relic of quantum gravity. <i>Physical Review D</i> , 2017 , 95,	4.9	5
60	Constraining holographic cosmology using Planck data. <i>Physical Review D</i> , 2017 , 95,	4.9	12
59	Accretion in Radiative Equipartition (AiRE) Disks. <i>Astrophysical Journal</i> , 2017 , 843, 22	4.7	1
58	Cosmological bounds on TeV-scale physics and beyond. <i>Physical Review D</i> , 2016 , 93,	4.9	6
57	Cosmic censorship in Lorentz-violating theories of gravity. <i>Physical Review D</i> , 2016 , 93,	4.9	9
56	Critical geometry of a thermal big bang. <i>Physical Review D</i> , 2016 , 94,	4.9	15
55	Birewall phenomenology with astrophysical neutrinos. <i>Classical and Quantum Gravity</i> , 2016 , 33, 235017	3.3	4

54	Universal clustering of dark matter in phase space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 986-992	4.3	9
53	Concentration, ellipsoidal collapse, and the densest dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 3068-3078	4.3	20
52	A Non-local Reality: Is There a Phase Uncertainty in Quantum Mechanics?. <i>Foundations of Physics</i> , 2015 , 45, 1620-1644	1.2	
51	Out of the white hole: a holographic origin for the Big Bang. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014 , 2014, 005-005	6.4	14
50	Horndeski theory meets the McVittie solution: A scalar field theory for accretion onto cosmological black holes. <i>Physical Review D</i> , 2014 , 90,	4.9	19
49	Clustering in the phase space of dark matter haloes II. Results from the Aquarius simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 441, 1317-1328	4.3	5
48	Clustering in the phase space of dark matter haloes III. Stable clustering and dark matter annihilation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 441, 1329-1339	4.3	12
47	Emergent spacetime in stochastically evolving dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 117-124	4.2	12
46	How does pressure gravitate? Cosmological constant problem confronts observational cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014 , 2014, 049-049	6.4	5
45	Transient weak lensing by cosmological dark matter microhaloes. <i>Physical Review D</i> , 2014 , 89,	4.9	8
44	Cosmological black holes from self-gravitating fields. <i>Physical Review D</i> , 2014 , 89,	4.9	20
43	Dynamical emergence of universal horizons during the formation of black holes. <i>Physical Review D</i> , 2014 , 89,	4.9	30
42	Thermal tachyacoustic cosmology. <i>Physical Review D</i> , 2014 , 90,	4.9	6
41	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	5.4	89
40	Empty black holes, firewalls, and the origin of Bekenstein-Hawking entropy. <i>International Journal of Modern Physics D</i> , 2014 , 23, 1443007	2.2	25
39	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	4.3	37
38	An optimal and model-independent measurement of the intracluster pressure profile II. Methodology and first applications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 435, 1788-1808	4.3	1
37	A distinguished vacuum state for a quantum field in a curved spacetime: formalism, features, and cosmology. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	29

36	A ground state for the causal diamond in 2 dimensions. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	18
35	Removal and mixing of the coronal gas from satellites in galaxy groups: cooling the intragroup gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 426, 3464-3476	4.3	8
34	Phenomenology of gravitational aether as a solution to the old cosmological constant problem. <i>Physical Review D</i> , 2011 , 84,	4.9	11
33	Prospects for detecting dark matter halo substructure with pulsar timing. <i>Physical Review D</i> , 2011 , 84,	4.9	31
32	A theory of a spot. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011 , 2011, 019-019	6.4	25
31	Neutron stars and the cosmological constant problem. <i>Physical Review D</i> , 2011 , 84,	4.9	7
30	THE CASE FOR A DIRECTIONAL DARK MATTER DETECTOR AND THE STATUS OF CURRENT EXPERIMENTAL EFFORTS. <i>International Journal of Modern Physics A</i> , 2010 , 25, 1-51	1.2	140
29	Hierarchy in the phase space and dark matter astronomy. <i>Physical Review D</i> , 2010 , 81,	4.9	17
28	Do observations offer evidence for cosmological-scale extra dimensions?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009 , 2009, 030-030	6.4	52
27	Stellar black holes and the origin of cosmic acceleration. <i>Physical Review D</i> , 2009 , 80,	4.9	18
26	Cuscuton and low-energy limit of Hořava-Lifshitz gravity. <i>Physical Review D</i> , 2009 , 80,	4.9	74
25	Hierarchical phase space structure of dark matter haloes: Tidal debris, caustics, and dark matter annihilation. <i>Physical Review D</i> , 2009 , 79,	4.9	12
24	Extended Limber approximation. <i>Physical Review D</i> , 2008 , 78,	4.9	223
23	Does the planck mass run on the cosmological-horizon scale?. <i>Physical Review Letters</i> , 2008 , 100, 111101	7.4	9
22	Primordial non-Gaussianity, statistics of collapsed objects, and the integrated Sachs-Wolfe effect. <i>Physical Review D</i> , 2008 , 78,	4.9	156
21	Fundamental Plane of Sunyaev-Zel'dovich Clusters. <i>Astrophysical Journal</i> , 2008 , 686, 201-205	4.7	7
20	Causal field theory with an infinite speed of sound. <i>Physical Review D</i> , 2007 , 75,	4.9	132
19	How well can (renormalized) perturbation theory predict dark matter clustering properties?. <i>Physical Review D</i> , 2007 , 75,	4.9	16

18	Cuscuton cosmology: Dark energy meets modified gravity. <i>Physical Review D</i> , 2007 , 75,	4.9	69
17	Missing thermal energy of the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 378, 293-300	4.3	65
16	Growth of hydrodynamic perturbations in accretion disks: Possible route to non-magnetic turbulence. <i>Advances in Space Research</i> , 2006 , 38, 2877-2879	2.4	10
15	Intracluster medium through three years of WMAP. <i>New Astronomy Reviews</i> , 2006 , 50, 905-908	7.9	
14	Bypass to Turbulence in Hydrodynamic Accretion: Lagrangian Analysis of Energy Growth. <i>Astrophysical Journal</i> , 2005 , 629, 373-382	4.7	71
13	Instability of dark energy with mass-varying neutrinos. <i>Physical Review D</i> , 2005 , 72,	4.9	114
12	CMB B-mode polarization from Thomson scattering in the local universe. <i>Physical Review D</i> , 2005 , 71,	4.9	3
11	Do large-scale inhomogeneities explain away dark energy?. <i>Physical Review D</i> , 2005 , 72,	4.9	44
10	Wilkinson Microwave Anisotropy Probe Constraints on the Intracluster Medium. <i>Astrophysical Journal</i> , 2005 , 629, 1-14	4.7	34
9	Bypass to Turbulence in Hydrodynamic Accretion Disks: An Eigenvalue Approach. <i>Astrophysical Journal</i> , 2005 , 629, 383-396	4.7	60
8	Coarse-grained back reaction in single scalar field driven inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005 , 2005, 011-011	6.4	18
7	Integrated Sachs-Wolfe effect in cross-correlation: The observer's manual. <i>Physical Review D</i> , 2004 , 70,	4.9	98
6	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,	4.9	180
5	Primordial Black Holes as Dark Matter: The Power Spectrum and Evaporation of Early Structures. <i>Astrophysical Journal</i> , 2003 , 594, L71-L74	4.7	103
4	Geometrically Thin Disk Accreting into a Black Hole. <i>Astrophysical Journal</i> , 2003 , 592, 354-367	4.7	71
3	Mass-Temperature Relation of Galaxy Clusters: A Theoretical Study. <i>Astrophysical Journal</i> , 2002 , 564, 669-682	4.7	39
2	Super-Hubble nonlinear perturbations during inflation. <i>Physical Review D</i> , 2001 , 63,	4.9	47
1	Diverse local epidemics reveal the distinct effects of population density, demographics, climate, depletion of susceptibles, and intervention in the first wave of COVID-19 in the United States		6

