Kevork N Abazajian

List of Publications by Year
in descending order

71	17,746	66315	85498
papers	citations	42 h-index	71 g-index

73	73	73	9522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Near to long-term forecasts in x-ray and gamma-ray bands: Are we entering the era of dark matter astronomy?. Physical Review D, 2020, 102, .	1.6	11
2	Strong constraints on thermal relic dark matter from Fermi-LAT observations of the Galactic Center. Physical Review D, 2020, 102, .	1.6	54
3	Observational signatures of gamma-rays from bright blazars and wakefield theory. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2229-2237.	1.6	5
4	Observing Dirac neutrinos in the cosmic microwave background. Physical Review D, 2019, 100, .	1.6	39
5	Warm FIRE: simulating galaxy formation with resonant sterile neutrino dark matter. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4086-4099.	1.6	34
6	Hidden treasures: Sterile neutrinos as dark matter with miraculous abundance, structure formation for different production mechanisms, and a solution to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math> problem. Physical Review D, 2019, 100, .	1.6	19
7	Sterile Neutrino/Dark Fermion Dark Matter: Searches in the X-Ray Sky, the Nuclear Physics Laboratory and in Galaxy Formation. Thirty Years of Astronomical Discovery With UKIRT, 2019, , 1-8.	0.3	0
8	What the MilkyÂWayâ€™s dwarfs tell us about the Galactic Center extended gamma-ray excess. Physical Review D, 2018, 97, .	1.6	10
9	Sterile neutrinos in cosmology. Physics Reports, 2017, 711-712, 1-28.	10.3	156
10	Sterile neutrino dark matter: Weak interactions in the strong coupling epoch. Physical Review D, 2016, 94, .	1.6	70
11	Neutrino Physics from the Cosmic Microwave Background and Large-Scale Structure. Annual Review of Nuclear and Particle Science, 2016, 66, 401-420.	3.5	23
12	Bright gamma-ray Galactic Center excess and dark dwarfs: Strong tension for dark matter annihilation despite MilkyÂWay halo profile and diffuse emission uncertainties. Physical Review D, 2016, 93, .	1.6	38
13	Testing for new physics: neutrinos and the primordial power spectrum. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 022-022.	1.9	22
14	Resonant sterile neutrino dark matter in the local and high-zUniverse. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1489-1504.	1.6	51
15	Properties of resonantly produced sterile neutrino dark matter subhaloes. Monthly Notices of the Royal Astronomical Society, 2016, 456, 4346-4353.	1.6	45
16	Discovery of a new galactic center excess consistent with upscattered starlight. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 013-013.	1.9	34
17	Inflation physics from the cosmic microwave background and large scale structure. Astroparticle Physics, 2015, 63, 55-65.	1.9	90
18	Neutrino physics from the cosmic microwave background and large scale structure. Astroparticle Physics, 2015, 63, 66-80.	1.9	218

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19	The Knotted Sky I: Planck constraints on the primordial power spectrum. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 052-052.	1.9	26
20	The Knotted Sky II: does BICEP2 require a nontrivial primordial power spectrum?. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 053-053.	1.9	32
21	Running with BICEP2: implications for small-scale problems in CDM. Monthly Notices of the Royal Astronomical Society, 2014, 444, 961-970.	1.6	18
22	Resonantly Produced 7ÂkeV Sterile Neutrino Dark Matter Models and the Properties of Milky Way Satellites. Physical Review Letters, 2014, 112, 161303.	2.9	127
23	Sterile neutrino dark matter bounds from galaxies of the Local Group. Physical Review D, 2014, 89, .	1.6	169
24	Astrophysical and dark matter interpretations of extended gamma-ray emission from the Galactic Center. Physical Review D, 2014, 90, .	1.6	298
25	The high-z universe confronts warm dark matter: Galaxy counts, reionization and the nature of dark matter. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1597-1609.	1.6	70
26	X-Ray Line May Have Dark Matter Origin. Physics Magazine, 2014, 7, .	0.1	2
27	Are light sterile neutrinos preferred or disfavored by cosmology?. Physical Review D, 2013, 87, .	1.6	19
28	Models of the contribution of blazars to the anisotropy of the extragalactic diffuse gamma-ray background. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 026-026.	1.9	45
29	Constraints on WIMP and Sommerfeld-enhanced dark matter annihilation from HESS observations of the galactic center. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 041-041.	1.9	52
30	Detection of a gamma-ray source in the Galactic Center consistent with extended emission from dark matter annihilation and concentrated astrophysical emission. Physical Review D, 2012, 86, .	1.6	392
31	Current and future constraints on dark matter from prompt and inverse-Compton photon emission in the isotropic diffuse gamma-ray background. Physical Review D, 2012, 85, .	1.6	34
32	Lower limits on the strengths of gamma ray lines from WIMP dark matter annihilation. Physical Review D, 2012, 85, .	1.6	14
33	Contribution of blazars to the extragalactic diffuse gamma-ray background and their future spatial resolution. Physical Review D, 2011, 84, .	1.6	42
34	Cosmological and astrophysical neutrino mass measurements. Astroparticle Physics, 2011, 35, 177-184.	1.9	108
35	The consistency of Fermi-LAT observations of the galactic center with a millisecond pulsar population in the central stellar cluster. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 010-010.	1.9	188
36	Conservative constraints on dark matter from the Fermi-LAT isotropic diffuse gamma-ray background spectrum. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 041-041.	1.9	54

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37	Morphological tests of the pulsar and dark matter interpretations of the WMAP haze. Physical Review D, 2010, 81, .	1.6	6
38	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. Astrophysical Journal, Supplement Series, 2009, 182, 543-558.	3.0	4,201
39	Chaos, determinacy and fractals in activeâ€“sterile neutrino oscillations in the early universe. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 006.	1.9	4
40	Toward a Halo Mass Function for Precision Cosmology: The Limits of Universality. Astrophysical Journal, 2008, 688, 709-728.	1.6	1,387
41	Limits on the radiative decay of sterile neutrino dark matter from the unresolved cosmic and soft x-ray backgrounds. Physical Review D, 2007, 75, .	1.6	77
42	Production and evolution of perturbations of sterile neutrino dark matter. Physical Review D, 2006, 73, .	1.6	121
43	Linear cosmological structure limits on warm dark matter. Physical Review D, 2006, 73, .	1.6	101
44	Light element signatures of sterile neutrinos and cosmological lepton numbers. Physical Review D, 2006, 74, .	1.6	32
45	Cosmological constraints from the SDSS luminous red galaxies. Physical Review D, 2006, 74, .	1.6	1,132
46	Constraints on sterile neutrino dark matter. Physical Review D, 2006, 74, .	1.6	111
47	Percolation Galaxy Groups and Clusters in the SDSS Redshift Survey: Identification, Catalogs, and the Multiplicity Function. Astrophysical Journal, Supplement Series, 2006, 167, 1-25.	3.0	311
48	Precision Determination of the Mass Function of Dark Matter Halos. Astrophysical Journal, 2006, 646, 881-885.	1.6	448
49	A Large Dark Matter Core in the Fornax Dwarf Spheroidal Galaxy?. Astrophysical Journal, 2006, 652, 306-312.	1.6	78
50	Cosmology and the Halo Occupation Distribution from Smallâ€Scale Galaxy Clustering in the Sloan Digital Sky Survey. Astrophysical Journal, 2005, 625, 613-620.	1.6	86
51	Parametrizing the power spectrum: beyond the truncated Taylor expansion. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 008-008.	1.9	14
52	Cosmological lepton asymmetry, primordial nucleosynthesis and sterile neutrinos. Physical Review D, 2005, 72, .	1.6	60
53	The Third Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2005, 129, 1755-1759.	1.9	634
54	Nonlinear cosmological matter power spectrum with massive neutrinos: The halo model. Physical Review D, 2005, 71, .	1.6	44

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55	The Cosmological Energy Density of Neutrinos from Oscillation Measurements. AIP Conference Proceedings, 2004, , .	0.3	3
56	Cosmological parameters from SDSS and WMAP. Physical Review D, 2004, 69, .	1.6	3,121
57	The Second Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2004, 128, 502-512.	1.9	953
58	Telling three from four neutrinos with cosmology. Astroparticle Physics, 2003, 19, 303-312.	1.9	47
59	The First Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2003, 126, 2081-2086.	1.9	800
60	Cosmological Constraints on Bulk Neutrinos. Physical Review Letters, 2003, 90, 061301.	2.9	12
61	Neutrino Mass and Dark Energy from Weak Lensing. Physical Review Letters, 2003, 91, 041301.	2.9	115
62	Stringent constraints on cosmological neutrino-antineutrino asymmetries from synchronized flavor transformation. Physical Review D, 2002, 66, .	1.6	177
63	Bulk QCD thermodynamics and sterile neutrino dark matter. Physical Review D, 2002, 66, .	1.6	65
64	SDSS J124602.54 + 011318.8: A Highly Luminous Optical Transient atz= 0.385. Astrophysical Journal, 2002, 576, 673-678.	1.6	16
65	Sterile neutrino hot, warm, and cold dark matter. Physical Review D, 2001, 64, .	1.6	406
66	Direct Detection of Warm Dark Matter in the Xâ€Ray. Astrophysical Journal, 2001, 562, 593-604.	1.6	261
67	Testing the Cosmic Coincidence Problem and the Nature of Dark Energy. Physical Review Letters, 2001, 87, 141302.	2.9	139
68	New connection between central engine weak physics and the dynamics of gamma-ray burst fireballs. Physical Review D, 2001, 64, .	1.6	15
69	Can a Large Neutron Excess Help Solve the Baryon Loading Problem in Gamma-Ray Burst Fireballs?. Physical Review Letters, 2000, 85, 2673-2676.	2.9	33
70	Increase in the primordial4Heyield in the two-doublet four-neutrino mixing scheme. Physical Review D, 2000, 62, .	1.6	8
71	Neutrino-mixing-generated lepton asymmetry and the primordial4Heabundance. Physical Review D, 1999, 60, .	1.6	21