

Kevork N Abazajian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2355951/publications.pdf>

Version: 2024-02-01

71
papers

17,746
citations

66234

42
h-index

85405

71
g-index

73
all docs

73
docs citations

73
times ranked

9522
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?. <i>Physical Review D</i> , 2020, 102, . | 1.6 | 11 |
| 2 | Strong constraints on thermal relic dark matter from Fermi-LAT observations of the Galactic Center. <i>Physical Review D</i> , 2020, 102, . | 1.6 | 54 |
| 3 | Observational signatures of gamma-rays from bright blazars and wakefield theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2229-2237. | 1.6 | 5 |
| 4 | Observing Dirac neutrinos in the cosmic microwave background. <i>Physical Review D</i> , 2019, 100, . | 1.6 | 39 |
| 5 | Warm FIRE: simulating galaxy formation with resonant sterile neutrino dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 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 $\int_0^{\infty} \frac{dN}{dz} dz > 8$ problem. <i>Physical Review D</i> , 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. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2019, , 1-8. | 0.3 | 0 |
| 8 | What the Milky Way's dwarfs tell us about the Galactic Center extended gamma-ray excess. <i>Physical Review D</i> , 2018, 97, . | 1.6 | 10 |
| 9 | Sterile neutrinos in cosmology. <i>Physics Reports</i> , 2017, 711-712, 1-28. | 10.3 | 156 |
| 10 | Sterile neutrino dark matter: Weak interactions in the strong coupling epoch. <i>Physical Review D</i> , 2016, 94, . | 1.6 | 70 |
| 11 | Neutrino Physics from the Cosmic Microwave Background and Large-Scale Structure. <i>Annual Review of Nuclear and Particle Science</i> , 2016, 66, 401-420. | 3.5 | 23 |
| 12 | Bright gamma-ray Galactic Center excess and dark dwarfs: Strong tension for dark matter annihilation despite Milky Way halo profile and diffuse emission uncertainties. <i>Physical Review D</i> , 2016, 93, . | 1.6 | 38 |
| 13 | Testing for new physics: neutrinos and the primordial power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 022-022. | 1.9 | 22 |
| 14 | Resonant sterile neutrino dark matter in the local and high- z Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 1489-1504. | 1.6 | 51 |
| 15 | Properties of resonantly produced sterile neutrino dark matter subhaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 4346-4353. | 1.6 | 45 |
| 16 | Discovery of a new galactic center excess consistent with upscattered starlight. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 013-013. | 1.9 | 34 |
| 17 | Inflation physics from the cosmic microwave background and large scale structure. <i>Astroparticle Physics</i> , 2015, 63, 55-65. | 1.9 | 90 |
| 18 | Neutrino physics from the cosmic microwave background and large scale structure. <i>Astroparticle Physics</i> , 2015, 63, 66-80. | 1.9 | 218 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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 |

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

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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 at $z = 0.385$. 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 X-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 primordial ^4He yield in the two-doublet four-neutrino mixing scheme. Physical Review D, 2000, 62, . | 1.6 | 8 |
| 71 | Neutrino-mixing-generated lepton asymmetry and the primordial ^4He abundance. Physical Review D, 1999, 60, . | 1.6 | 21 |