Sunny Vagnozzi

List of Publications by Year
in descending order

59 papers	6,010 citations	71102 41 h-index	182427 51 g-index
62 all docs	62 docs citations	62 times ranked	3012 citing authors

#	Article	IF	Citations
1	Primordial gravitational waves from NANOGrav: A broken power-law approach. Physical Review D, 2022, 105, .	4.7	62
2	Cosmological direct detection of dark energy: Non-linear structure formation signatures of dark energy scattering with visible matter. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1885-1905.	4.4	21
3	Superradiance evolution of black hole shadows revisited. Physical Review D, 2022, 105, .	4.7	63
4	Note on Fundamental Physics Tests from Black Hole Imaging: Comment on â€œHunting for Extra Dimensions in the Shadow of Sagittarius A*â€• Research Notes of the AAS, 2022, 6, 106.	0.7	6
5	New tests of dark sector interactions from the full-shape galaxy power spectrum. Physical Review D, 2022, 105, .	4.7	42
6	Eppur Ã¨ piatto? The Cosmic Chronometers Take on Spatial Curvature and Cosmic Concordance. Astrophysical Journal, 2021, 908, 84.	4.5	112
7	Arbitrating the <i>S</i>8 discrepancy with growth rate measurements from redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5427-5437.	4.4	97
8	Non-parametric spatial curvature inference using late-Universe cosmological probes. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 506, L1-L5.	3.3	70
9	The galaxy power spectrum take on spatial curvature and cosmic concordance. Physics of the Dark Universe, 2021, 33, 100851.	4.9	76
10	Direct detection of dark energy: The XENON1T excess and future prospects. Physical Review D, 2021, 104, .	4.7	34
11	Consistency tests of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î›</mml:mi><mml:mi>CDM</mml:mi></mml:math> from the early integrated Sachs-Wolfe effect: Implications for early-time new physics and the Hubble tension. Physical Review D, 2021, 104, .	4.7	102
12	Implications of the NANOGrav results for inflation. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L11-L15.	3.3	116
13	Bounds on light sterile neutrino mass and mixing from cosmology and laboratory searches. Physical Review D, 2021, 104, .	4.7	32
14	Black holes with scalar hair in light of the Event Horizon Telescope. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 026-026.	5.4	146
15	Soundness of dark energy properties. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	32
16	A Brief Interlude: Statistical Methods in Cosmology. Springer Theses, 2020, , 123-136.	0.1	0
17	Interacting dark energy in the early 2020s: A promising solution to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1519" altimg="si57.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></ and cosmic shear tensions. Physics of the Dark Universe, 2020, 30, 100666.	4.9	184
18	New physics in light of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension: An alternative view. Physical Review D, 2020, 102, .	4.7	267

#	Article	IF	Citations
19	Concerns regarding the use of black hole shadows as standard rulers. Classical and Quantum Gravity, 2020, 37, 087001.	4.0	91
20	Magnetically charged black holes from non-linear electrodynamics and the Event Horizon Telescope. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 003-003.	5.4	171
21	Nonminimal dark sector physics and cosmological tensions. Physical Review D, 2020, 101, .	4.7	211
22	Do we have any hope of detecting scattering between dark energy and baryons through cosmology?. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1139-1152.	4.4	58
23	Standard Models and What Lies Beyond. Springer Theses, 2020, , 5-36.	0.1	0
24	Massive Neutrinos Meet Inflation. Springer Theses, 2020, , 179-188.	0.1	0
25	Massive Neutrinos Meet (Non-Phantom) Dark Energy. Springer Theses, 2020, , 167-177.	0.1	0
26	Scale-Dependent Galaxy Bias Induced by Massive Neutrinos. Springer Theses, 2020, , 159-165.	0.1	0
27	Overview of Physical Cosmology. Springer Theses, 2020, , 37-63.	0.1	0
28	Early 2017 Limits on Neutrino Masses and Mass Ordering. Springer Theses, 2020, , 137-150.	0.1	5
29	Massive Neutrinos and How to Search for Them with Cosmological Observations. Springer Theses, 2020, , 65-121.	0.1	0
30	Scale-Dependent Galaxy Bias and CMB Lensing-Galaxy Cross-Correlations. Springer Theses, 2020, , 151-157.	0.1	0
31	The zoo plot meets the swampland: mutual (in)consistency of single-field inflation, string conjectures, and cosmological data. Classical and Quantum Gravity, 2019, 36, 117001.	4.0	118
32	Cosmological window onto the string axiverse and the supersymmetry breaking scale. Physical Review D, 2019, 99, .	4.7	77
33	Hunting for extra dimensions in the shadow of M87*. Physical Review D, 2019, 100, .	4.7	224
34	Listening to the sound of dark sector interactions with gravitational wave standard sirens. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 037-037.	5.4	77
35	Revisiting a Negative Cosmological Constant from Low-Redshift Data. Symmetry, 2019, 11, 1035.	2.2	104
36	Testing the rotational nature of the supermassive object M87* from the circularity and size of its first image. Physical Review D, 2019, 100, .	4.7	253

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37	New Solar Metallicity Measurements. Atoms, 2019, 7, 41.	1.6	24
38	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	5.4	741
39	Alive and well: mimetic gravity and a higher-order extension in light of GW170817. Classical and Quantum Gravity, 2019, 36, 017001.	4.0	72
40	Dawn of the dark: unified dark sectors and the EDGES Cosmic Dawn 21-cm signal. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 044-044.	5.4	36
41	Brane-world extra dimensions in light of GW170817. Physical Review D, 2018, 97, .	4.7	94
42	Cosmological dynamics of mimetic gravity. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 041-041.	5.4	88
43	Scale-dependent galaxy bias, CMB lensing-galaxy cross-correlation, and neutrino masses. Physical Review D, 2018, 98, .	4.7	73
44	Constraints on the sum of the neutrino masses in dynamical dark energy models with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>w</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>z</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (stretchy="false")</mml:m are tighter than those obtained in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" disp	4.7	144
45	Mimicking dark matter and dark energy in a mimetic model compatible with GW170817. Physics of the Dark Universe, 2018, 22, 108-115.	4.9	77
46	Tale of stable interacting dark energy, observational signatures, and the <i>H</i>₀ tension. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	237
47	Bias due to neutrinos must not uncorrect'd go. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 001-001.	5.4	65
48	Solar Models in Light of New High Metallicity Measurements from Solar Wind Data. Astrophysical Journal, 2017, 839, 55.	4.5	24
49	Recovering a MOND-like acceleration law in mimetic gravity. Classical and Quantum Gravity, 2017, 34, 185006.	4.0	73
50	Unveiling <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi></mml:math> secrets with cosmological data: Neutrino masses and mass hierarchy. Physical Review D, 2017, 96, .	4.7	277
51	Impact of neutrino properties on the estimation of inflationary parameters from current and future observations. Physical Review D, 2017, 95, .	4.7	70
52	Mimetic Gravity: A Review of Recent Developments and Applications to Cosmology and Astrophysics. Advances in High Energy Physics, 2017, 2017, 1-43.	1.1	190
53	Static spherically symmetric solutions in mimetic gravity: rotation curves and wormholes. Classical and Quantum Gravity, 2016, 33, 125005.	4.0	131
54	Solving the small-scale structure puzzles with dissipative dark matter. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 013-013.	5.4	90

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55	Covariant HorÌŒava-like and mimetic Horndeski gravity: cosmological solutions and perturbations. Classical and Quantum Gravity, 2016, 33, 225014.	4.0	85
56	Improvement of cosmological neutrino mass bounds. Physical Review D, 2016, 94, .	4.7	136
57	Inflation in $$f(R,phi)$$ f (R , Ï•) -theories and mimetic gravity scenario. European Physical Journal C, 2015, 75, 1.	3.9	140
58	Dissipative hidden sector dark matter. Physical Review D, 2015, 91, .	4.7	208
59	Diurnal modulation signal from dissipative hidden sector dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 61-66.	4.1	84