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	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	5.4	741
2	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
3	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
4	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
5	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
6	Hunting for extra dimensions in the shadow of M87*. Physical Review D, 2019, 100, .	4.7	224
7	Nonminimal dark sector physics and cosmological tensions. Physical Review D, 2020, 101, .	4.7	211
8	Dissipative hidden sector dark matter. Physical Review D, 2015, 91, .	4.7	208
9	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
10	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></m and cosmic shear tensions. Physics of the Dark Universe, 2020, 30, 100666.	4.9	184
11	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
12	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
13	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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 257 Td (stretchy="false">) are tighter than those obtained in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" disp	4.7	144
14	Inflation in $$f(R,phi)$$ f (R , Ï•) -theories and mimetic gravity scenario. European Physical Journal C, 2015, 75, 1.	3.9	140
15	Improvement of cosmological neutrino mass bounds. Physical Review D, 2016, 94, .	4.7	136
16	Static spherically symmetric solutions in mimetic gravity: rotation curves and wormholes. Classical and Quantum Gravity, 2016, 33, 125005.	4.0	131
17	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
18	Implications of the NANOGrav results for inflation. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L11-L15.	3.3	116

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19	Eppur Ã¨ piatto? The Cosmic Chronometers Take on Spatial Curvature and Cosmic Concordance. Astrophysical Journal, 2021, 908, 84.	4.5	112
20	Revisiting a Negative Cosmological Constant from Low-Redshift Data. Symmetry, 2019, 11, 1035.	2.2	104
21	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
22	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
23	Brane-world extra dimensions in light of GW170817. Physical Review D, 2018, 97, .	4.7	94
24	Concerns regarding the use of black hole shadows as standard rulers. Classical and Quantum Gravity, 2020, 37, 087001.	4.0	91
25	Solving the small-scale structure puzzles with dissipative dark matter. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 013-013.	5.4	90
26	Cosmological dynamics of mimetic gravity. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 041-041.	5.4	88
27	Covariant HorÌŒava-like and mimetic Horndeski gravity: cosmological solutions and perturbations. Classical and Quantum Gravity, 2016, 33, 225014.	4.0	85
28	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
29	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
30	Cosmological window onto the string axiverse and the supersymmetry breaking scale. Physical Review D, 2019, 99, .	4.7	77
31	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
32	The galaxy power spectrum take on spatial curvature and cosmic concordance. Physics of the Dark Universe, 2021, 33, 100851.	4.9	76
33	Recovering a MOND-like acceleration law in mimetic gravity. Classical and Quantum Gravity, 2017, 34, 185006.	4.0	73
34	Scale-dependent galaxy bias, CMB lensing-galaxy cross-correlation, and neutrino masses. Physical Review D, 2018, 98, .	4.7	73
35	Alive and well: mimetic gravity and a higher-order extension in light of GW170817. Classical and Quantum Gravity, 2019, 36, 017001.	4.0	72
36	Impact of neutrino properties on the estimation of inflationary parameters from current and future observations. Physical Review D, 2017, 95, .	4.7	70

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37	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
38	Bias due to neutrinos must not uncorrect'd go. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 001-001.	5.4	65
39	Superradiance evolution of black hole shadows revisited. Physical Review D, 2022, 105, .	4.7	63
40	Primordial gravitational waves from NANOGrav: A broken power-law approach. Physical Review D, 2022, 105, .	4.7	62
41	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
42	New tests of dark sector interactions from the full-shape galaxy power spectrum. Physical Review D, 2022, 105, .	4.7	42
43	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
44	Direct detection of dark energy: The XENON1T excess and future prospects. Physical Review D, 2021, 104, .	4.7	34
45	Soundness of dark energy properties. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	32
46	Bounds on light sterile neutrino mass and mixing from cosmology and laboratory searches. Physical Review D, 2021, 104, .	4.7	32
47	Solar Models in Light of New High Metallicity Measurements from Solar Wind Data. Astrophysical Journal, 2017, 839, 55.	4.5	24
48	New Solar Metallicity Measurements. Atoms, 2019, 7, 41.	1.6	24
49	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
50	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
51	Early 2017 Limits on Neutrino Masses and Mass Ordering. Springer Theses, 2020, , 137-150.	0.1	5
52	A Brief Interlude: Statistical Methods in Cosmology. Springer Theses, 2020, , 123-136.	0.1	0
53	Standard Models and What Lies Beyond. Springer Theses, 2020, , 5-36.	0.1	0
54	Massive Neutrinos Meet Inflation. Springer Theses, 2020, , 179-188.	0.1	0

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55	Massive Neutrinos Meet (Non-Phantom) Dark Energy. Springer Theses, 2020, , 167-177.	0.1	0
56	Scale-Dependent Galaxy Bias Induced by Massive Neutrinos. Springer Theses, 2020, , 159-165.	0.1	0
57	Overview of Physical Cosmology. Springer Theses, 2020, , 37-63.	0.1	0
58	Massive Neutrinos and How to Search for Them with Cosmological Observations. Springer Theses, 2020, , 65-121.	0.1	0
59	Scale-Dependent Galaxy Bias and CMB Lensing-Galaxy Cross-Correlations. Springer Theses, 2020, , 151-157.	0.1	0