Nicola Vittorio

List of Publications by Year
in descending order

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72 papers	4,840 citations	218677 26 h-index	155660 55 g-index
72 all docs	72 docs citations	72 times ranked	2928 citing authors

#	Article	IF	Citations
1	Sources of <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 in dark energy scenarios. Physical Review D, 2021, 103, .	4.7	22
2	<scp>muscle-ups</scp>: improved approximations of the matter field with the extended Pressâ€“Schechter formalism and Lagrangian perturbation theory. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2999-3015.	4.4	7
3	Beyond the lognormal approximation: a general simulation scheme. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2663-2675.	4.4	4
4	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	1.4	64
5	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
6	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
7	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
8	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0
9	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
10	Constraints on field flows of quintessence dark energy. Physical Review D, 2019, 99, .	4.7	16
11	An improved model-independent assessment of the late-time cosmic expansion. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 015-015.	5.4	89
12	Cosmological Constraints from Low-Redshift Data. Foundations of Physics, 2018, 48, 1446-1485.	1.3	12
13	Isotropic vs. anisotropic components of BAO data: a tool for model selection. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 033-033.	5.4	20
14	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
15	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
16	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
17	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19
18	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0

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19	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
20	Reconstruction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math> -attractor supergravity models of inflation. Physical Review D, 2017, 95, .	4.7	7
21	Strong evidence for an accelerating Universe. Astronomy and Astrophysics, 2017, 600, L1.	5.1	47
22	Constraining the general reheating phase in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math> -attractor inflationary cosmology. Physical Review D, 2017, 95, .	4.7	22
23	Is there a concordance value forH₀?. Astronomy and Astrophysics, 2016, 595, A109.	5.1	50
24	Planck2013 results. XIII. Galactic CO emission. Astronomy and Astrophysics, 2014, 571, A13.	5.1	144
25	Dark matter in cosmology. International Journal of Modern Physics A, 2014, 29, 1443001.	1.5	16
26	Needlet bispectrum asymmetries in the WMAP 5-year data. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 402, L34-L38.	3.3	22
27	Constraints on primordial non-Gaussianity from a needlet analysis of theWMAP-5 data. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1682-1688.	4.4	37
28	Astrophysical Cosmology. , 2009, , 203-299.		1
29	Spherical needlets for cosmic microwave background data analysis. Monthly Notices of the Royal Astronomical Society, 2008, 383, 539-545.	4.4	135
30	Cosmological Parameters from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 799-812.	4.5	159
31	A Measurement of the Polarizationâ€Temperature Angular Crossâ€Power Spectrum of the Cosmic Microwave Background from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 833-839.	4.5	123
32	A Measurement of the CMB âŒ©EEâŒª Spectrum from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 813-822.	4.5	217
33	A Measurement of the Angular Power Spectrum of the CMB Temperature Anisotropy from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 823-832.	4.5	186
34	Search for non-Gaussianity in pixel, harmonic, and wavelet space: Compared and combined. Physical Review D, 2004, 69, .	4.7	35
35	Asymmetries in the Local Curvature of the Wilkinson Microwave Anisotropy Probe Data. Astrophysical Journal, 2004, 607, L67-L70.	4.5	149
36	The empirical process approach for detection of non-Gaussianity in the CMB. New Astronomy Reviews, 2003, 47, 811-814.	12.8	0

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37	Extended empirical process test for non-Gaussianity in the CMB, with an application to non-Gaussian inflationary models. Physical Review D, 2003, 67, .	4.7	13
38	Constraints on flat cosmologies with tracking quintessence from cosmic microwave background observations. Physical Review D, 2002, 65, .	4.7	69
39	Testing for non-Gaussianity of the cosmic microwave background in harmonic space: An empirical process approach. Physical Review D, 2002, 66, .	4.7	12
40	The BOOMERanG experiment and the curvature of the universe. Progress in Particle and Nuclear Physics, 2002, 48, 243-261.	14.4	73
41	Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. Astrophysical Journal, 2002, 572, L27-L31.	4.5	43
42	Implications for Quintessence Models from MAXIMA-1 and BOOMERANG-98. Astrophysical Journal, 2001, 547, L89-L92.	4.5	36
43	A Measurement of Î© from the North American Test Flight of Boomerang. Astrophysical Journal, 2000, 536, L63-L66.	4.5	169
44	A flat Universe from high-resolution maps of the cosmic microwave background radiation. Nature, 2000, 404, 955-959.	27.8	2,232
45	The Gravitational Wave Contribution to the Cosmic Microwave Background Anisotropies. Astrophysical Journal, 1999, 518, 562-569.	4.5	31
46	Is the Cluster Temperature Function a Reliable Test for Î©0?. Astrophysical Journal, 1997, 488, 566-571.	4.5	30
47	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. Astrophysical Journal, 1997, 480, 1-5.	4.5	26
48	Fast Spherical Harmonic Analysis: A Quick Algorithm for Generating and/or InvertingFull-Sky, High-Resolution Cosmic Microwave Background Anisotropy Maps. Astrophysical Journal, 1997, 488, L63-L66.	4.5	47
49	Polarization of the Microwave Background: Theoretical Framework. , 1997, , 419-440.		1
50	Observational Constraints on Blue Primordial Spectra. Astrophysical Journal, 1996, 459, 455.	4.5	12
51	Tilted hybrid dark matter models and cosmic microwave background anisotropies. Astrophysical Journal, 1995, 439, 1.	4.5	8
52	Detection of cosmic microwave background anisotropy at 1.8 deg: Theoretical implications on inflationary models. Astrophysical Journal, 1994, 433, L1.	4.5	11
53	Cosmic microwave background fluctuations as observed by COBE - Theoretical and experimental uncertainties. Astrophysical Journal, 1993, 411, 1.	4.5	5
54	Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field. Astrophysical Journal, 1993, 410, L61.	4.5	9

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55	Reionization and Cosmic Microwave Anisotropies. Astrophysical Journal, 1993, 419, L1.	4.5	15
56	Cold dark matter confronts the cosmic microwave background: Large-angular-scale anisotropies inÎ©0+Î»=1 models. Physical Review Letters, 1992, 68, 733-736.	7.8	20
57	CMB and Galactic Maps in the Millimetric Region. , 1992, , 315-330.		1
58	Anisotropies of the cosmic microwave background in nonstandard cold dark matter models. Astrophysical Journal, 1992, 385, L9.	4.5	6
59	Cold dark matter versus baryon-dominated universes - Comparison with peculiar velocity and acceleration measurements. Astrophysical Journal, 1992, 397, 26.	4.5	1
60	Non-Gaussian temperature fluctuations in the cosmic microwave background sky from a random Gaussian density field. Astrophysical Journal, 1991, 375, 439.	4.5	25
61	Cosmic microwave background and Galactic quadrupoles in the millimetric region. Astrophysical Journal, 1991, 382, 515.	4.5	3
62	Limits on cold dark matter cosmologies from new anisotropy bounds on the cosmic microwave background. Astrophysical Journal, 1991, 372, L1.	4.5	21
63	Local gravity and large-scale structure. Astrophysical Journal, 1990, 349, 408.	4.5	26
64	Constraints on the amplitude of primordial density fluctuations from the large-scale cosmic microwave background temperature distribution. Astrophysical Journal, 1990, 353, 372.	4.5	18
65	The Large Scale Structure of the Universe. Astrophysics and Space Science Library, 1989, , 159-180.	2.7	0
66	Peculiar Velocity and Gravity as Cosmological Probes. Astrophysics and Space Science Library, 1989, , 241-258.	2.7	0
67	Cold dark matter dominated, inflationary universe with Omega(0) less than 1 and N less than 1. Astrophysical Journal, 1988, 328, 69.	4.5	41
68	Hot spots in the microwave sky. Astrophysical Journal, 1987, 314, L29.	4.5	36
69	Large-scale velocity fields as a test of cosmological models. Nature, 1986, 323, 132-133.	27.8	36
70	Microwave-background anisotropy and decaying-cold-particle scenarios. Physical Review D, 1986, 34, 940-943.	4.7	3
71	Microwave Background Anisotropy and Decaying-Particle Models for a Flat Universe. Physical Review Letters, 1985, 54, 2269-2272.	7.8	18
72	Exploring the evidence for a large local void with supernovae Ia data. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	21