

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	A flat Universe from high-resolution maps of the cosmic microwave background radiation. <i>Nature</i> , 2000, 404, 955-959.	27.8	2,232
2	A Measurement of the CMB ℓ - ℓ Spectrum from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 813-822.	4.5	217
3	A Measurement of the Angular Power Spectrum of the CMB Temperature Anisotropy from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 823-832.	4.5	186
4	A Measurement of Ω from the North American Test Flight of Boomerang. <i>Astrophysical Journal</i> , 2000, 536, L63-L66.	4.5	169
5	Cosmological Parameters from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 799-812.	4.5	159
6	Asymmetries in the Local Curvature of the Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2004, 607, L67-L70.	4.5	149
7	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	5.1	144
8	Spherical needlets for cosmic microwave background data analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 383, 539-545.	4.4	135
9	A Measurement of the Polarization Temperature Angular Cross Power Spectrum of the Cosmic Microwave Background from the 2003 Flight of BOOMERANG. <i>Astrophysical Journal</i> , 2006, 647, 833-839.	4.5	123
10	An improved model-independent assessment of the late-time cosmic expansion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 015-015.	5.4	89
11	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
12	The BOOMERANG experiment and the curvature of the universe. <i>Progress in Particle and Nuclear Physics</i> , 2002, 48, 243-261.	14.4	73
13	Constraints on flat cosmologies with tracking quintessence from cosmic microwave background observations. <i>Physical Review D</i> , 2002, 65, .	4.7	69
14	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	1.4	64
15	Is there a concordance value for H_0 ? <i>Astronomy and Astrophysics</i> , 2016, 595, A109.	5.1	50
16	Fast Spherical Harmonic Analysis: A Quick Algorithm for Generating and/or Inverting Full-Sky, High-Resolution Cosmic Microwave Background Anisotropy Maps. <i>Astrophysical Journal</i> , 1997, 488, L63-L66.	4.5	47
17	Strong evidence for an accelerating Universe. <i>Astronomy and Astrophysics</i> , 2017, 600, L1.	5.1	47
18	Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. <i>Astrophysical Journal</i> , 2002, 572, L27-L31.	4.5	43

#	ARTICLE	IF	CITATIONS
19	Cold dark matter dominated, inflationary universe with $\Omega(0)$ less than 1 and N less than 1. <i>Astrophysical Journal</i> , 1988, 328, 69.	4.5	41
20	Constraints on primordial non-Gaussianity from a needlet analysis of the WMAP-5 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1682-1688.	4.4	37
21	Large-scale velocity fields as a test of cosmological models. <i>Nature</i> , 1986, 323, 132-133.	27.8	36
22	Hot spots in the microwave sky. <i>Astrophysical Journal</i> , 1987, 314, L29.	4.5	36
23	Implications for Quintessence Models from MAXIMA-1 and BOOMERANG-98. <i>Astrophysical Journal</i> , 2001, 547, L89-L92.	4.5	36
24	Search for non-Gaussianity in pixel, harmonic, and wavelet space: Compared and combined. <i>Physical Review D</i> , 2004, 69, .	4.7	35
25	The Gravitational Wave Contribution to the Cosmic Microwave Background Anisotropies. <i>Astrophysical Journal</i> , 1999, 518, 562-569.	4.5	31
26	Is the Cluster Temperature Function a Reliable Test for Ω_0 ?. <i>Astrophysical Journal</i> , 1997, 488, 566-571.	4.5	30
27	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. <i>Astrophysical Journal</i> , 1997, 480, 1-5.	4.5	26
28	Local gravity and large-scale structure. <i>Astrophysical Journal</i> , 1990, 349, 408.	4.5	26
29	Non-Gaussian temperature fluctuations in the cosmic microwave background sky from a random Gaussian density field. <i>Astrophysical Journal</i> , 1991, 375, 439.	4.5	25
30	Needlet bispectrum asymmetries in the WMAP 5-year data. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 402, L34-L38.	3.3	22
31	Constraining the general reheating phase in the $\hat{\mu} \pm$ -attractor inflationary cosmology. <i>Physical Review D</i> , 2017, 95, .	4.7	22
32	Sources of H_0 -tension in dark energy scenarios. <i>Physical Review D</i> , 2021, 103, .	4.7	22
33	Exploring the evidence for a large local void with supernovae Ia data. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	21
34	Limits on cold dark matter cosmologies from new anisotropy bounds on the cosmic microwave background. <i>Astrophysical Journal</i> , 1991, 372, L1.	4.5	21
35	Cold dark matter confronts the cosmic microwave background: Large-angular-scale anisotropies in $\Omega_0 = 1$ models. <i>Physical Review Letters</i> , 1992, 68, 733-736.	7.8	20
36	Isotropic vs. anisotropic components of BAO data: a tool for model selection. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 033-033.	5.4	20

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37	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19
38	Microwave Background Anisotropy and Decaying-Particle Models for a Flat Universe. Physical Review Letters, 1985, 54, 2269-2272.	7.8	18
39	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
40	Dark matter in cosmology. International Journal of Modern Physics A, 2014, 29, 1443001.	1.5	16
41	Constraints on field flows of quintessence dark energy. Physical Review D, 2019, 99, .	4.7	16
42	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
43	Reionization and Cosmic Microwave Anisotropies. Astrophysical Journal, 1993, 419, L1.	4.5	15
44	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
45	Testing for non-Gaussianity of the cosmic microwave background in harmonic space: An empirical process approach. Physical Review D, 2002, 66, .	4.7	12
46	Cosmological Constraints from Low-Redshift Data. Foundations of Physics, 2018, 48, 1446-1485.	1.3	12
47	Observational Constraints on Blue Primordial Spectra. Astrophysical Journal, 1996, 459, 455.	4.5	12
48	Detection of cosmic microwave background anisotropy at 1.8 deg: Theoretical implications on inflationary models. Astrophysical Journal, 1994, 433, L1.	4.5	11
49	Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field. Astrophysical Journal, 1993, 410, L61.	4.5	9
50	Tilted hybrid dark matter models and cosmic microwave background anisotropies. Astrophysical Journal, 1995, 439, 1.	4.5	8
51	Reconstruction of $\langle \delta^2 \rangle$ -attractor supergravity models of inflation. Physical Review D, 2017, 95, .	4.7	7
52	$\langle \delta^2 \rangle$: improved approximations of the matter field with the extended Press-Schechter formalism and Lagrangian perturbation theory. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2999-3015.	4.4	7
53	Anisotropies of the cosmic microwave background in nonstandard cold dark matter models. Astrophysical Journal, 1992, 385, L9.	4.5	6
54	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6

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55	Cosmic microwave background fluctuations as observed by COBE - Theoretical and experimental uncertainties. <i>Astrophysical Journal</i> , 1993, 411, 1.	4.5	5
56	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
57	Beyond the lognormal approximation: a general simulation scheme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2663-2675.	4.4	4
58	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
59	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
60	Microwave-background anisotropy and decaying-cold-particle scenarios. <i>Physical Review D</i> , 1986, 34, 940-943.	4.7	3
61	Cosmic microwave background and Galactic quadrupoles in the millimetric region. <i>Astrophysical Journal</i> , 1991, 382, 515.	4.5	3
62	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
63	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
64	<i>Astrophysical Cosmology</i> . , 2009, , 203-299.		1
65	Polarization of the Microwave Background: Theoretical Framework. , 1997, , 419-440.		1
66	CMB and Galactic Maps in the Millimetric Region. , 1992, , 315-330.		1
67	Cold dark matter versus baryon-dominated universes - Comparison with peculiar velocity and acceleration measurements. <i>Astrophysical Journal</i> , 1992, 397, 26.	4.5	1
68	The empirical process approach for detection of non-Gaussianity in the CMB. <i>New Astronomy Reviews</i> , 2003, 47, 811-814.	12.8	0
69	The Large Scale Structure of the Universe. <i>Astrophysics and Space Science Library</i> , 1989, , 159-180.	2.7	0
70	Peculiar Velocity and Gravity as Cosmological Probes. <i>Astrophysics and Space Science Library</i> , 1989, , 241-258.	2.7	0
71	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0
72	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0