

Giancarlo de Gasperis

List of Publications by Year in descending order

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108
papers

10,563
citations

38720

50
h-index

33869

99
g-index

108
all docs

108
docs citations

108
times ranked

5810
citing authors

#	ARTICLE	IF	CITATIONS
1	Baryon Acoustic Oscillations from Integrated Neutral Gas Observations: an instrument to observe the 21cm hydrogen line in the redshift range $0.13 < z < 0.45$ status update. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201096.	0.3	0
2	Progress Report on the Large-Scale Polarization Explorer. Journal of Low Temperature Physics, 2020, 200, 374-383.	0.6	16
3	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	0.9	15
4	Energy density, temperature, and entropy dynamics in perturbative reheating. Physical Review D, 2019, 100, .	1.6	10
5	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	1.9	98
6	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	1.9	75
7	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	1.9	73
8	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	1.9	29
9	Exploring cosmic origins with CORE: Cluster science. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	1.9	17
10	Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	1.9	20
11	Exploring cosmic origins with CORE: Mitigation of systematic effects. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 022-022.	1.9	14
12	Exploring cosmic origins with CORE: B_{l} -mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	1.9	44
13	Impact of polarized foregrounds on LSPE-SWIPE observations. Journal of Physics: Conference Series, 2018, 956, 012002.	0.3	1
14	Optimal strategy for polarization modulation in the LSPE-SWIPE experiment. Astronomy and Astrophysics, 2018, 609, A52.	2.1	5
15	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
16	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
17	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
18	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
20	Derivation of the Hubble parameter using galaxy clusters. Journal of Physics: Conference Series, 2017, 841, 012004.	0.3	0
21	Optimization of the half wave plate configuration for the LSPE-SWIPE experiment. Journal of Physics: Conference Series, 2017, 841, 012001.	0.3	2
22	Optimal cosmic microwave background map-making in the presence of cross-correlated noise. Astronomy and Astrophysics, 2016, 593, A15.	2.1	9
23	Polarization of Cosmic Microwave Background. Journal of Physics: Conference Series, 2016, 689, 012003.	0.3	4
24	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2014, 561, A97.	2.1	80
25	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
26	<i>Planck</i> intermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	2.1	19
27	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A140.	2.1	101
28	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A128.	2.1	20
29	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A131.	2.1	276
30	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A139.	2.1	106
31	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A129.	2.1	63
32	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A132.	2.1	15
33	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A133.	2.1	52
34	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A134.	2.1	94
35	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2012, 543, A102.	2.1	50
36	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	2.1	119

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37	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. <i>Astronomy and Astrophysics</i> , 2011, 536, A18.	2.1	180
38	<i>Planck</i> early results. XIII. Statistical properties of extragalactic radio sources in the <i>Planck</i> Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A13.	2.1	103
39	<i>Planck</i> early results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A17.	2.1	123
40	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12.	2.1	100
41	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
42	<i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. <i>Astronomy and Astrophysics</i> , 2011, 536, A20.	2.1	155
43	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	2.1	184
44	<i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A22.	2.1	88
45	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A23.	2.1	152
46	<i>Planck</i> early results. V. The Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2011, 536, A5.	2.1	77
47	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2011, 536, A16.	2.1	74
48	<i>Planck</i> early results. XIX. All-sky temperature and dust optical depth from <i>Planck</i> and IRAS. Constraints on the "dark gas" in our Galaxy. <i>Astronomy and Astrophysics</i> , 2011, 536, A19.	2.1	314
49	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. <i>Astronomy and Astrophysics</i> , 2011, 536, A24.	2.1	179
50	<i>Planck</i> early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. <i>Astronomy and Astrophysics</i> , 2011, 536, A10.	2.1	124
51	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A11.	2.1	174
52	Planck early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	2.1	61
53	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. <i>Astronomy and Astrophysics</i> , 2011, 536, A8.	2.1	335
54	<i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKG266.6"27.3, an exceptionally X-ray luminous and massive galaxy cluster at <i>z</i> = 1. <i>Astronomy and Astrophysics</i> , 2011, 536, A26.	2.1	72

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55	<i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A15.	2.1	93
56	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	2.1	394
57	<i>Planck</i> early results. III. First assessment of the Low Frequency Instrument in-flight performance. <i>Astronomy and Astrophysics</i> , 2011, 536, A3.	2.1	108
58	Data reduction pipeline for the Hi-GAL survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 2932-2943.	1.6	110
59	<i>Planck</i> early results. IX. <i>XMM-Newton</i> follow-up for validation of <i>Planck</i> cluster candidates. <i>Astronomy and Astrophysics</i> , 2011, 536, A9.	2.1	126
60	<i>Planck</i> pre-launch status: The <i>Planck</i>-LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	2.1	81
61	Residual noise covariance for Planck low-resolution data analysis. <i>Astronomy and Astrophysics</i> , 2010, 522, A94.	2.1	9
62	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	2.1	268
63	PROPERTIES OF GALACTIC CIRRUS CLOUDS OBSERVED BY BOOMERANG. <i>Astrophysical Journal</i> , 2010, 713, 959-969.	1.6	58
64	Needlet bispectrum asymmetries in the <i>WMAP</i> 5-year data. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 402, L34-L38.	1.2	22
65	BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1658-1665.	1.6	20
66	Foreground influence on primordial non-Gaussianity estimates: needlet analysis of WMAP 5-year data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	1.6	8
67	Clouds, filaments, and protostars: The <i>Herschel</i> Hi-GAL Milky Way. <i>Astronomy and Astrophysics</i> , 2010, 518, L100.	2.1	573
68	<i>Planck</i> pre-launch status: Design and description of the Low Frequency Instrument. <i>Astronomy and Astrophysics</i> , 2010, 520, A4.	2.1	125
69	Hi-GAL: The Herschel Infrared Galactic Plane Survey. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 314-325.	1.0	440
70	Making maps from Planck LFI 30 GHz data with asymmetric beams and cooler noise. <i>Astronomy and Astrophysics</i> , 2009, 493, 753-783.	2.1	25
71	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.	1.6	37
72	New estimates of the CMB angular power spectra from the WMAP 5 year low-resolution data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 463-469.	1.6	38

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73	Probing primordial non Gaussianity in the BOOMERanG CMB maps: an analysis based on analytical Minkowski functionals. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 278-286.	0.5	2
74	SUBDEGREE SUNYAEV-ZEL'DOVICH SIGNAL FROM MULTIFREQUENCY BOOMERANG OBSERVATIONS. Astrophysical Journal, 2009, 702, L61-L65.	1.6	10
75	Searching for Non-Gaussian Signals in the BOOMERANG 2003 CMB Maps. Astrophysical Journal, 2007, 670, L73-L76.	1.6	18
76	Making sky maps from Planck data. Astronomy and Astrophysics, 2007, 467, 761-775.	2.1	45
77	CMB polarization with Boomerang 2003. New Astronomy Reviews, 2007, 51, 244-249.	5.2	2
78	The millimeter sky as seen with BOOMERanG. New Astronomy Reviews, 2007, 51, 236-243.	5.2	1
79	Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: Preliminary results. New Astronomy Reviews, 2007, 51, 250-255.	5.2	3
80	Making maps from Planck LFI 30 GHz data. Astronomy and Astrophysics, 2007, 471, 361-380.	2.1	25
81	Cosmological Parameters from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 799-812.	1.6	159
82	A Measurement of the Polarization-Temperature Angular Cross-Power Spectrum of the Cosmic Microwave Background from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 833-839.	1.6	123
83	Comparison of map-making algorithms for CMB experiments. Astronomy and Astrophysics, 2006, 449, 1311-1322.	2.1	30
84	A Measurement of the CMB Q Spectrum from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 813-822.	1.6	217
85	A Measurement of the Angular Power Spectrum of the CMB Temperature Anisotropy from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 823-832.	1.6	186
86	Observations of the temperature and polarization anisotropies with Boomerang 2003. New Astronomy Reviews, 2006, 50, 945-950.	5.2	9
87	Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERanG. Astronomy and Astrophysics, 2006, 458, 687-716.	2.1	99
88	BOOMERanG results. Advances in Space Research, 2005, 36, 1064-1069.	1.2	1
89	ROMA: A map-making algorithm for polarised CMB data sets. Astronomy and Astrophysics, 2005, 436, 1159-1165.	2.1	48
90	Planck/LFI DPC pipeline integration and testing. , 2004, , .		0

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91	BOOMERANG returns. <i>New Astronomy Reviews</i> , 2003, 47, 733-740.	5.2	1
92	Measuring CMB polarization with Boomerang. <i>New Astronomy Reviews</i> , 2003, 47, 1057-1065.	5.2	13
93	The new images of the microwave sky: a concordance cosmology ?. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 110, 128-136.	0.5	0
94	The BOOMERANG experiment and the curvature of the universe. <i>Progress in Particle and Nuclear Physics</i> , 2002, 48, 243-261.	5.6	73
95	Non-iterative methods to estimate the in-flight noise properties of CMB detectors. <i>Astronomy and Astrophysics</i> , 2002, 383, 1100-1112.	2.1	17
96	CMB power spectrum estimation for the Planck Surveyor. <i>Astronomy and Astrophysics</i> , 2002, 395, 417-421.	2.1	6
97	Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. <i>Astrophysical Journal</i> , 2002, 572, L27-L31.	1.6	43
98	A Map-Making algorithm for the Planck Surveyor. <i>Astronomy and Astrophysics</i> , 2001, 372, 346-356.	2.1	75
99	Deprojection of Galaxy Cluster X-ray, Sunyaev-Zeldovich Temperature Decrement, and Weak Lensing Mass Maps. <i>Astrophysical Journal</i> , 2001, 561, 600-620.	1.6	33
100	Measurement of a Peak in the Cosmic Microwave Background Power Spectrum from the North American Test Flight of Boomerang. <i>Astrophysical Journal</i> , 2000, 536, L59-L62.	1.6	126
101	A Measurement of $\hat{\Omega}_m$ from the North American Test Flight of Boomerang. <i>Astrophysical Journal</i> , 2000, 536, L63-L66.	1.6	169
102	A flat Universe from high-resolution maps of the cosmic microwave background radiation. <i>Nature</i> , 2000, 404, 955-959.	13.7	2,232
103	How the universe got its spots. <i>Physical Review D</i> , 1998, 58, .	1.6	24
104	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. <i>Astrophysical Journal</i> , 1997, 480, 1-5.	1.6	26
105	Observational Constraints on Blue Primordial Spectra. <i>Astrophysical Journal</i> , 1996, 459, 455.	1.6	12
106	Tilted hybrid dark matter models and cosmic microwave background anisotropies. <i>Astrophysical Journal</i> , 1995, 439, 1.	1.6	8
107	Detection of cosmic microwave background anisotropy at 1.8 deg: Theoretical implications on inflationary models. <i>Astrophysical Journal</i> , 1994, 433, L1.	1.6	11
108	Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field. <i>Astrophysical Journal</i> , 1993, 410, L61.	1.6	9