Giancarlo de Gasperis

List of Publications by Year
in descending order

108	10,563	38742 50	33894 99
papers	citations	h-index	g-index

108	108	108	5810
all docs	docs citations	times ranked	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 â€“ status update. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201096.	0.8	0
2	Progress Report on the Large-Scale Polarization Explorer. Journal of Low Temperature Physics, 2020, 200, 374-383.	1.4	16
3	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
4	Energy density, temperature, and entropy dynamics in perturbative reheating. Physical Review D, 2019, 100, .	4.7	10
5	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
6	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	75
7	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	73
8	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
9	Exploring cosmic origins with CORE: Cluster science. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	17
10	Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	20
11	Exploring cosmic origins with CORE: Mitigation of systematic effects. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 022-022.	5.4	14
12	Exploring cosmic origins with CORE:<i>B</i>-mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
13	Impact of polarized foregrounds on LSPE-SWIPE observations. Journal of Physics: Conference Series, 2018, 956, 012002.	0.4	1
14	Optimal strategy for polarization modulation in the LSPE-SWIPE experiment. Astronomy and Astrophysics, 2018, 609, A52.	5.1	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.	0.4	0
21	Optimization of the half wave plate configuration for the LSPE-SWIPE experiment. Journal of Physics: Conference Series, 2017, 841, 012001.	0.4	2
22	Optimal cosmic microwave background map-making in the presence of cross-correlated noise. Astronomy and Astrophysics, 2016, 593, A15.	5.1	9
23	Polarization of Cosmic Microwave Background. Journal of Physics: Conference Series, 2016, 689, 012003.	0.4	4
24	Planckintermediate results. Astronomy and Astrophysics, 2014, 561, A97.	5.1	80
25	Planckintermediate results. Astronomy and Astrophysics, 2013, 557, A52.	5.1	141
26	PlanckÂintermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	5.1	19
27	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A140.	5.1	101
28	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A128.	5.1	20
29	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A131.	5.1	276
30	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A139.	5.1	106
31	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A129.	5.1	63
32	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A132.	5.1	15
33	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A133.	5.1	52
34	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A134.	5.1	94
35	Planckintermediate results. Astronomy and Astrophysics, 2012, 543, A102.	5.1	50
36	Planckearly results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	5.1	119

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37	Planckearly results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	5.1	180
38	Planckearly results. XIII. Statistical properties of extragalactic radio sources in thePlanckEarly Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A13.	5.1	103
39	Planckearly results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. Astronomy and Astrophysics, 2011, 536, A17.	5.1	123
40	Planckearly results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	5.1	100
41	Planckearly results. II. The thermal performance ofPlanck. Astronomy and Astrophysics, 2011, 536, A2.	5.1	91
42	Planckearly results. XX. New light on anomalous microwave emission from spinning dust grains. Astronomy and Astrophysics, 2011, 536, A20.	5.1	155
43	Planckearly results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	5.1	184
44	Planckearly results. XXII. The submillimetre properties of a sample of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A22.	5.1	88
45	Planckearly results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	5.1	152
46	Planckearly results. V. The Low Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A5.	5.1	77
47	Planckearly results. XVI. ThePlanckview of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	5.1	74
48	Planckearly results. XIX. All-sky temperature and dust optical depth fromPlanckand IRAS. Constraints on the â€œdark gasâ€•in our Galaxy. Astronomy and Astrophysics, 2011, 536, A19.	5.1	314
49	Planckearly results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. Astronomy and Astrophysics, 2011, 536, A24.	5.1	179
50	Planckearly results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. Astronomy and Astrophysics, 2011, 536, A10.	5.1	124
51	Planckearly results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. Astronomy and Astrophysics, 2011, 536, A11.	5.1	174
52	Planckearly results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	5.1	61
53	Planckearly results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	5.1	335
54	Planckearly results. XXVI. Detection withPlanckand confirmation byXMM-Newtonof PLCKÂG266.6â€“27.3, an exceptionally X-ray luminous and massive galaxy cluster atzÂ–Â 1. Astronomy and Astrophysics, 2011, 536, A26.	5.1	72

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55	Planckearly results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	5.1	93
56	Planckearly results. I. ThePlanckmission. Astronomy and Astrophysics, 2011, 536, A1.	5.1	394
57	Planckearly results. III. First assessment of the Low Frequency Instrument in-flight performance. Astronomy and Astrophysics, 2011, 536, A3.	5.1	108
58	Data reduction pipeline for the Hi-GAL survey. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2932-2943.	4.4	110
59	Planckearly results. IX.XMM-Newtonfollow-up for validation ofPlanckcluster candidates. Astronomy and Astrophysics, 2011, 536, A9.	5.1	126
60	Planckpre-launch status: ThePlanck-LFI programme. Astronomy and Astrophysics, 2010, 520, A3.	5.1	81
61	Residual noise covariance forPlancklow-resolution data analysis. Astronomy and Astrophysics, 2010, 522, A94.	5.1	9
62	Planckpre-launch status: ThePlanckmission. Astronomy and Astrophysics, 2010, 520, A1.	5.1	268
63	PROPERTIES OF GALACTIC CIRRUS CLOUDS OBSERVED BY BOOMERANG. Astrophysical Journal, 2010, 713, 959-969.	4.5	58
64	Needlet bispectrum asymmetries in the WMAP 5-year data. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 402, L34-L38.	3.3	22
65	BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1658-1665.	4.4	20
66	Foreground influence on primordial non-Gaussianity estimates: needlet analysis ofWMAP5-year data. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	8
67	Clouds, filaments, and protostars: TheHerschelâ€‰Hi-GAL Milky Way. Astronomy and Astrophysics, 2010, 518, L100.	5.1	573
68	Planckpre-launch status: Design and description of the Low Frequency Instrument. Astronomy and Astrophysics, 2010, 520, A4.	5.1	125
69	Hi-GAL: The Herschel Infrared Galactic Plane Survey. Publications of the Astronomical Society of the Pacific, 2010, 122, 314-325.	3.1	440
70	Making maps from Planck LFI 30ÂGHz data with asymmetric beams and cooler noise. Astronomy and Astrophysics, 2009, 493, 753-783.	5.1	25
71	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
72	New estimates of the CMB angular power spectra from theWMAP5 year low-resolution data. Monthly Notices of the Royal Astronomical Society, 2009, 400, 463-469.	4.4	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.	0.4	2
74	SUBDEGREE SUNYAEV-ZEL'DOVICH SIGNAL FROM MULTIFREQUENCY BOOMERANG OBSERVATIONS. Astrophysical Journal, 2009, 702, L61-L65.	4.5	10
75	Searching for Non-Gaussian Signals in the BOOMERANG 2003 CMB Maps. Astrophysical Journal, 2007, 670, L73-L76.	4.5	18
76	Making sky maps from Planck data. Astronomy and Astrophysics, 2007, 467, 761-775.	5.1	45
77	CMB polarization with Boomerang 2003. New Astronomy Reviews, 2007, 51, 244-249.	12.8	2
78	The millimeter sky as seen with BOOMERanG. New Astronomy Reviews, 2007, 51, 236-243.	12.8	1
79	Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: Preliminary results. New Astronomy Reviews, 2007, 51, 250-255.	12.8	3
80	Making maps from Planck LFI 30 GHz data. Astronomy and Astrophysics, 2007, 471, 361-380.	5.1	25
81	Cosmological Parameters from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 799-812.	4.5	159
82	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
83	Comparison of map-making algorithms for CMB experiments. Astronomy and Astrophysics, 2006, 449, 1311-1322.	5.1	30
84	A Measurement of the CMB âŒ©EEâŒª Spectrum from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 813-822.	4.5	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.	4.5	186
86	Observations of the temperature and polarization anisotropies with Boomerang 2003. New Astronomy Reviews, 2006, 50, 945-950.	12.8	9
87	Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERanG. Astronomy and Astrophysics, 2006, 458, 687-716.	5.1	99
88	BOOMERanG results. Advances in Space Research, 2005, 36, 1064-1069.	2.6	1
89	ROMA: A map-making algorithm for polarised CMB data sets. Astronomy and Astrophysics, 2005, 436, 1159-1165.	5.1	48
90	Planck/LFI DPC pipeline integration and testing. , 2004, , .		0

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91	BOOMERANG returns. New Astronomy Reviews, 2003, 47, 733-740.	12.8	1
92	Measuring CMB polarization with Boomerang. New Astronomy Reviews, 2003, 47, 1057-1065.	12.8	13
93	The new images of the microwave sky: a concordance cosmology ?. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 128-136.	0.4	0
94	The BOOMERanG experiment and the curvature of the universe. Progress in Particle and Nuclear Physics, 2002, 48, 243-261.	14.4	73
95	Non-iterative methods to estimate the in-flight noise properties of CMB detectors. Astronomy and Astrophysics, 2002, 383, 1100-1112.	5.1	17
96	CMB power spectrum estimation for the Planck Surveyor. Astronomy and Astrophysics, 2002, 395, 417-421.	5.1	6
97	Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. Astrophysical Journal, 2002, 572, L27-L31.	4.5	43
98	A Map-Making algorithm for the Planck Surveyor. Astronomy and Astrophysics, 2001, 372, 346-356.	5.1	75
99	Deprojection of Galaxy Cluster Xâ€Ray, Sunyaevâ€Zeldovich Temperature Decrement, and Weakâ€Lensing Mass Maps. Astrophysical Journal, 2001, 561, 600-620.	4.5	33
100	Measurement of a Peak in the Cosmic Microwave Background Power Spectrum from the North American Test Flight of Boomerang. Astrophysical Journal, 2000, 536, L59-L62.	4.5	126
101	A Measurement of Î© from the North American Test Flight of Boomerang. Astrophysical Journal, 2000, 536, L63-L66.	4.5	169
102	A flat Universe from high-resolution maps of the cosmic microwave background radiation. Nature, 2000, 404, 955-959.	27.8	2,232
103	How the universe got its spots. Physical Review D, 1998, 58, .	4.7	24
104	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. Astrophysical Journal, 1997, 480, 1-5.	4.5	26
105	Observational Constraints on Blue Primordial Spectra. Astrophysical Journal, 1996, 459, 455.	4.5	12
106	Tilted hybrid dark matter models and cosmic microwave background anisotropies. Astrophysical Journal, 1995, 439, 1.	4.5	8
107	Detection of cosmic microwave background anisotropy at 1.8 deg: Theoretical implications on inflationary models. Astrophysical Journal, 1994, 433, L1.	4.5	11
108	Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field. Astrophysical Journal, 1993, 410, L61.	4.5	9