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	A flat Universe from high-resolution maps of the cosmic microwave background radiation. Nature, 2000, 404, 955-959.	27.8	2,232
2	Clouds, filaments, and protostars: TheHerschelâ€‰Hi-GAL Milky Way. Astronomy and Astrophysics, 2010, 518, L100.	5.1	573
3	Hi-GAL: The Herschel Infrared Galactic Plane Survey. Publications of the Astronomical Society of the Pacific, 2010, 122, 314-325.	3.1	440
4	Planckearly results. I. ThePlanckmission. Astronomy and Astrophysics, 2011, 536, A1.	5.1	394
5	Planckearly results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	5.1	335
6	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
7	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A131.	5.1	276
8	Planckpre-launch status: ThePlanckmission. Astronomy and Astrophysics, 2010, 520, A1.	5.1	268
9	A Measurement of the CMB âŒ©EEâŒª Spectrum from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 813-822.	4.5	217
10	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
11	Planckearly results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	5.1	184
12	Planckearly results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	5.1	180
13	Planckearly results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. Astronomy and Astrophysics, 2011, 536, A24.	5.1	179
14	Planckearly results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. Astronomy and Astrophysics, 2011, 536, A11.	5.1	174
15	A Measurement of Î© from the North American Test Flight of Boomerang. Astrophysical Journal, 2000, 536, L63-L66.	4.5	169
16	Cosmological Parameters from the 2003 Flight of BOOMERANG. Astrophysical Journal, 2006, 647, 799-812.	4.5	159
17	Planckearly results. XX. New light on anomalous microwave emission from spinning dust grains. Astronomy and Astrophysics, 2011, 536, A20.	5.1	155
18	Planckearly results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	5.1	152

#	Article	IF	Citations
19	Planckintermediate results. Astronomy and Astrophysics, 2013, 557, A52.	5.1	141
20	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
21	Planckearly results. IX.XMM-Newtonfollow-up for validation ofPlanckcluster candidates. Astronomy and Astrophysics, 2011, 536, A9.	5.1	126
22	Planckpre-launch status: Design and description of the Low Frequency Instrument. Astronomy and Astrophysics, 2010, 520, A4.	5.1	125
23	Planckearly results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. Astronomy and Astrophysics, 2011, 536, A10.	5.1	124
24	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
25	Planckearly results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. Astronomy and Astrophysics, 2011, 536, A17.	5.1	123
26	Planckearly results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	5.1	119
27	Data reduction pipeline for the Hi-GAL survey. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2932-2943.	4.4	110
28	Planckearly results. III. First assessment of the Low Frequency Instrument in-flight performance. Astronomy and Astrophysics, 2011, 536, A3.	5.1	108
29	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A139.	5.1	106
30	Planckearly results. XIII. Statistical properties of extragalactic radio sources in thePlanckEarly Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A13.	5.1	103
31	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A140.	5.1	101
32	Planckearly results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	5.1	100
33	Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERanG. Astronomy and Astrophysics, 2006, 458, 687-716.	5.1	99
34	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
35	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A134.	5.1	94
36	Planckearly results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	5.1	93

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37	Planckearly results. II. The thermal performance ofPlanck. Astronomy and Astrophysics, 2011, 536, A2.	5.1	91
38	Planckearly results. XXII. The submillimetre properties of a sample of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A22.	5.1	88
39	Planckpre-launch status: ThePlanck-LFI programme. Astronomy and Astrophysics, 2010, 520, A3.	5.1	81
40	Planckintermediate results. Astronomy and Astrophysics, 2014, 561, A97.	5.1	80
41	Planckearly results. V. The Low Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A5.	5.1	77
42	A Map-Making algorithm for the Planck Surveyor. Astronomy and Astrophysics, 2001, 372, 346-356.	5.1	75
43	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	75
44	Planckearly results. XVI. ThePlanckview of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	5.1	74
45	The BOOMERanG experiment and the curvature of the universe. Progress in Particle and Nuclear Physics, 2002, 48, 243-261.	14.4	73
46	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	73
47	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
48	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A129.	5.1	63
49	Planckearly results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	5.1	61
50	PROPERTIES OF GALACTIC CIRRUS CLOUDS OBSERVED BY BOOMERANG. Astrophysical Journal, 2010, 713, 959-969.	4.5	58
51	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A133.	5.1	52
52	Planckintermediate results. Astronomy and Astrophysics, 2012, 543, A102.	5.1	50
53	ROMA: A map-making algorithm for polarised CMB data sets. Astronomy and Astrophysics, 2005, 436, 1159-1165.	5.1	48
54	Making sky maps from Planck data. Astronomy and Astrophysics, 2007, 467, 761-775.	5.1	45

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55	Exploring cosmic origins with CORE:B-mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
56	Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis. Astrophysical Journal, 2002, 572, L27-L31.	4.5	43
57	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
58	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
59	Deprojection of Galaxy Cluster Xâ€Ray, Sunyaevâ€Zeldovich Temperature Decrement, and Weakâ€Lensing Mass Maps. Astrophysical Journal, 2001, 561, 600-620.	4.5	33
60	Comparison of map-making algorithms for CMB experiments. Astronomy and Astrophysics, 2006, 449, 1311-1322.	5.1	30
61	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
62	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. Astrophysical Journal, 1997, 480, 1-5.	4.5	26
63	Making maps from Planck LFI 30ÂGHz data with asymmetric beams and cooler noise. Astronomy and Astrophysics, 2009, 493, 753-783.	5.1	25
64	Making maps from Planck LFI 30 GHz data. Astronomy and Astrophysics, 2007, 471, 361-380.	5.1	25
65	How the universe got its spots. Physical Review D, 1998, 58, .	4.7	24
66	Needlet bispectrum asymmetries in the WMAP 5-year data. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 402, L34-L38.	3.3	22
67	BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1658-1665.	4.4	20
68	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A128.	5.1	20
69	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
70	PlanckÂintermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	5.1	19
71	Searching for Non-Gaussian Signals in the BOOMERANG 2003 CMB Maps. Astrophysical Journal, 2007, 670, L73-L76.	4.5	18
72	Exploring cosmic origins with CORE: Cluster science. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	17

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73	Non-iterative methods to estimate the in-flight noise properties of CMB detectors. Astronomy and Astrophysics, 2002, 383, 1100-1112.	5.1	17
74	Progress Report on the Large-Scale Polarization Explorer. Journal of Low Temperature Physics, 2020, 200, 374-383.	1.4	16
75	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A132.	5.1	15
76	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
77	Exploring cosmic origins with CORE: Mitigation of systematic effects. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 022-022.	5.4	14
78	Measuring CMB polarization with Boomerang. New Astronomy Reviews, 2003, 47, 1057-1065.	12.8	13
79	Observational Constraints on Blue Primordial Spectra. Astrophysical Journal, 1996, 459, 455.	4.5	12
80	Detection of cosmic microwave background anisotropy at 1.8 deg: Theoretical implications on inflationary models. Astrophysical Journal, 1994, 433, L1.	4.5	11
81	Energy density, temperature, and entropy dynamics in perturbative reheating. Physical Review D, 2019, 100, .	4.7	10
82	SUBDEGREE SUNYAEV-ZEL'DOVICH SIGNAL FROM MULTIFREQUENCY BOOMERANG OBSERVATIONS. Astrophysical Journal, 2009, 702, L61-L65.	4.5	10
83	Observations of the temperature and polarization anisotropies with Boomerang 2003. New Astronomy Reviews, 2006, 50, 945-950.	12.8	9
84	Residual noise covariance forPlancklow-resolution data analysis. Astronomy and Astrophysics, 2010, 522, A94.	5.1	9
85	Optimal cosmic microwave background map-making in the presence of cross-correlated noise. Astronomy and Astrophysics, 2016, 593, A15.	5.1	9
86	Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field. Astrophysical Journal, 1993, 410, L61.	4.5	9
87	Foreground influence on primordial non-Gaussianity estimates: needlet analysis ofWMAP5-year data. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	8
88	Tilted hybrid dark matter models and cosmic microwave background anisotropies. Astrophysical Journal, 1995, 439, 1.	4.5	8
89	CMB power spectrum estimation for the Planck Surveyor. Astronomy and Astrophysics, 2002, 395, 417-421.	5.1	6
90	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6

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91	Optimal strategy for polarization modulation in the LSPE-SWIPE experiment. Astronomy and Astrophysics, 2018, 609, A52.	5.1	5
92	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
93	Polarization of Cosmic Microwave Background. Journal of Physics: Conference Series, 2016, 689, 012003.	0.4	4
94	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
95	Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: Preliminary results. New Astronomy Reviews, 2007, 51, 250-255.	12.8	3
96	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
97	CMB polarization with Boomerang 2003. New Astronomy Reviews, 2007, 51, 244-249.	12.8	2
98	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
99	Optimization of the half wave plate configuration for the LSPE-SWIPE experiment. Journal of Physics: Conference Series, 2017, 841, 012001.	0.4	2
100	BOOMERANG returns. New Astronomy Reviews, 2003, 47, 733-740.	12.8	1
101	BOOMERanG results. Advances in Space Research, 2005, 36, 1064-1069.	2.6	1
102	The millimeter sky as seen with BOOMERanG. New Astronomy Reviews, 2007, 51, 236-243.	12.8	1
103	Impact of polarized foregrounds on LSPE-SWIPE observations. Journal of Physics: Conference Series, 2018, 956, 012002.	0.4	1
104	The new images of the microwave sky: a concordance cosmology ?. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 128-136.	0.4	0
105	Planck/LFI DPC pipeline integration and testing. , 2004, , .		0
106	Derivation of the Hubble parameter using galaxy clusters. Journal of Physics: Conference Series, 2017, 841, 012004.	0.4	0
107	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
108	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0