

# Alessandro Gruppuso

## List of Publications by Year in descending order

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108  
papers

18,313  
citations

16451

64  
h-index

25787

108  
g-index

108  
all docs

108  
docs citations

108  
times ranked

12492  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> 2013 results. XVI. Cosmological parameters. <i>Astronomy and Astrophysics</i> , 2014, 571, A16.	5.1	4,703
2	<i>Planck</i> 2013 results. I. Overview of products and scientific results. <i>Astronomy and Astrophysics</i> , 2014, 571, A1.	5.1	948
3	Joint Analysis of BICEP2/Keck Array and <i>Planck</i> Data. <i>Physical Review Letters</i> , 2015, 114, 101301.	7.8	819
4	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	5.1	806
5	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	5.1	566
6	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	5.1	465
7	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	5.1	394
8	<i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A29.	5.1	380
9	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	5.1	367
10	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	5.1	364
11	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	5.1	350
12	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. <i>Astronomy and Astrophysics</i> , 2011, 536, A8.	5.1	335
13	<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.	5.1	314
14	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	5.1	272
15	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	5.1	268
16	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	5.1	224
17	<i>Planck</i> 2013 results. XXV. Searches for cosmic strings and other topological defects. <i>Astronomy and Astrophysics</i> , 2014, 571, A25.	5.1	223
18	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	5.1	216

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19	<i>Planck</i> 2013 results. XXX. Cosmic infrared background measurements and implications for star formation. <i>Astronomy and Astrophysics</i> , 2014, 571, A30.	5.1	210
20	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	5.1	184
21	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. <i>Astronomy and Astrophysics</i> , 2011, 536, A18.	5.1	180
22	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. <i>Astronomy and Astrophysics</i> , 2011, 536, A24.	5.1	179
23	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A11.	5.1	174
24	<i>Planck</i> 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove. <i>Astronomy and Astrophysics</i> , 2014, 571, A27.	5.1	170
25	<i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A28.	5.1	162
26	<i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. <i>Astronomy and Astrophysics</i> , 2011, 536, A20.	5.1	155
27	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A23.	5.1	152
28	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	5.1	144
29	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52.	5.1	141
30	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 006-006.	5.4	138
31	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A55.	5.1	134
32	<i>Planck</i> 2013 results. XXI. Power spectrum and high-order statistics of the <i>Planck</i> all-sky Compton parameter map. <i>Astronomy and Astrophysics</i> , 2014, 571, A21.	5.1	133
33	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	5.1	129
34	<i>Planck</i> intermediate results. XXII. Frequency dependence of thermal emission from Galactic dust in intensity and polarization. <i>Astronomy and Astrophysics</i> , 2015, 576, A107.	5.1	125
35	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	5.1	126
36	<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.	5.1	126

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37	<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.	5.1	124
38	<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.	5.1	123
39	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2011, 536, A21.	5.1	119
40	<i>Planck</i> intermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence. <i>Astronomy and Astrophysics</i> , 2015, 576, A105.	5.1	119
41	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	5.1	116
42	<i>Planck</i> early results. III. First assessment of the Low Frequency Instrument in-flight performance. <i>Astronomy and Astrophysics</i> , 2011, 536, A3.	5.1	108
43	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8.	5.1	107
44	<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.	5.1	103
45	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6.	5.1	103
46	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12.	5.1	100
47	<i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7.	5.1	99
48	<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.	5.1	93
49	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i> . <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	5.1	91
50	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	5.1	91
51	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	5.1	90
52	<i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A22.	5.1	88
53	<i>Planck</i> pre-launch status: The <i>Planck</i> -LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	5.1	81
54	<i>Planck</i> 2013 results. XXXII. The updated <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2015, 581, A14.	5.1	80

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55	<i>Planck</i> early results. V. The Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2011, 536, A5.	5.1	77
56	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2011, 536, A16.	5.1	74
57	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	5.1	74
58	<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 $z \sim 1$ . <i>Astronomy and Astrophysics</i> , 2011, 536, A26.	5.1	72
59	New constraints on parity symmetry from a re-analysis of the WMAP-7 low-resolution power spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1445-1452.	4.4	70
60	<i>Planck</i> 2013 results. XXXI. Consistency of the <i>Planck</i> data. <i>Astronomy and Astrophysics</i> , 2014, 571, A31.	5.1	69
61	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. <i>Astronomy and Astrophysics</i> , 2014, 571, A10.	5.1	68
62	<i>Planck</i> intermediate results. XXI. Comparison of polarized thermal emission from Galactic dust at 353 GHz with interstellar polarization in the visible. <i>Astronomy and Astrophysics</i> , 2015, 576, A106.	5.1	68
63	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	5.1	67
64	<i>Planck</i> intermediate results. XV. A study of anomalous microwave emission in Galactic clouds. <i>Astronomy and Astrophysics</i> , 2014, 565, A103.	5.1	67
65	<i>Planck</i> early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	5.1	61
66	Resonant amplification of gauge fields in expanding universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 502, 216-222.	4.1	56
67	<i>Planck</i> intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2014, 564, A45.	5.1	55
68	SPACE: the spectroscopic all-sky cosmic explorer. <i>Experimental Astronomy</i> , 2009, 23, 39-66.	3.7	54
69	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	5.1	54
70	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	5.1	50
71	Complete statistical analysis for the quadrupole amplitude in an ellipsoidal universe. <i>Physical Review D</i> , 2007, 76, .	4.7	45
72	Low variance at large scales of WMAP 9 year data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 047-047.	5.4	45

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73	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4.	5.1	41
74	Power asymmetries in the cosmic microwave background temperature and polarization patterns. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 399-404.	4.4	39
75	New estimates of the CMB angular power spectra from the WMAP5 year low-resolution data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 463-469.	4.4	38
76	Newton's law in an effective non-commutative space-time. <i>Journal of Physics A</i> , 2005, 38, 2039-2042.	1.6	35
77	Light bending as a probe of the nature of dark energy. <i>Physical Review D</i> , 2007, 75, .	4.7	33
78	WMAP 7 year constraints on CPT violation from large angle CMB anisotropies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 023-023.	5.4	32
79	Electromagnetic contributions to lepton $g^2$ in a thick brane-world. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 378-383.	4.1	29
80	Large scale alignment anomalies of CMB anisotropies: a new test for residuals applied to WMAP 5yr maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 004-004.	5.4	27
81	Two-point correlation function of Wilkinson Microwave Anisotropy Probe 9-yr data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2076-2082.	4.4	25
82	Hemispherical power asymmetries in the WMAP 7-year low-resolution temperature and polarization maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 3071-3077.	4.4	23
83	Boundaries and the Casimir effect in noncommutative space-time. <i>Physical Review D</i> , 2007, 76, .	4.7	20
84	<i>Planck</i> intermediate results. XII: Diffuse Galactic components in the Gould Belt system. <i>Astronomy and Astrophysics</i> , 2013, 557, A53.	5.1	19
85	FORECAST FOR THE PLANCK PRECISION ON THE TENSOR-TO-SCALAR RATIO AND OTHER COSMOLOGICAL PARAMETERS. <i>Astrophysical Journal</i> , 2010, 724, 588-607.	4.5	18
86	A comparison of CMB angular power spectrum estimators at large scales: the TT case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 957-964.	4.4	16
87	On the dipole straylight contamination in spinning space missions dedicated to cosmic microwave background anisotropy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 1570-1586.	4.4	15
88	Large scale directional anomalies in the WMAP 5yr ILC map. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 019-019.	5.4	15
89	Searching for hidden mirror symmetries in CMB fluctuations from WMAP 7 year maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 049-049.	5.4	15
90	CMB acoustic scale in the entropic-like accelerating universe. <i>Physical Review D</i> , 2011, 84, .	4.7	14

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91	CMB low multipole alignments in the $\Lambda$ CDM and dipolar models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 018-018.	5.4	14
92	Discrete symmetries and localization in a brane-world. <i>Physical Review D</i> , 2001, 64, .	4.7	13
93	Planck intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. <i>Astronomy and Astrophysics</i> , 2015, 573, A6.	5.1	13
94	Large-scale traces of Solar system cold dust on cosmic microwave background anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2546-2552.	4.4	12
95	The impact of dipole straylight contamination on the alignment of low multipoles of CMB anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 907-918.	4.4	11
96	Analytic results for a flat universe dominated by dust and dark energy. <i>Physical Review D</i> , 2006, 73, .	4.7	10
97	Residual noise covariance for Planck low-resolution data analysis. <i>Astronomy and Astrophysics</i> , 2010, 522, A94.	5.1	9
98	ON BOUNDARY TERMS AND CONFORMAL TRANSFORMATIONS IN CURVED SPACETIMES. <i>International Journal of Modern Physics D</i> , 2002, 11, 703-714.	2.1	8
99	The low frequency instrument on-board the Planck satellite: Characteristics and performance. <i>New Astronomy Reviews</i> , 2007, 51, 287-297.	12.8	8
100	Evolution of large scale curvature fluctuations during the perturbative decay of the inflaton. <i>Physical Review D</i> , 2007, 76, .	4.7	6
101	Cosmic Microwave Background Polarization as a Tool to Constrain the Optical Properties of the Universe. <i>Physical Review Letters</i> , 2021, 127, 011301.	7.8	5
102	Cosmological parameters from a re-analysis of the WMAP 7 year low-resolution maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2961-2970.	4.4	3
103	Planck-LFI scientific goals: Implications for the reionization history. <i>New Astronomy Reviews</i> , 2007, 51, 298-304.	12.8	2
104	Is a dissipative regime during inflation in agreement with observations?. <i>Physical Review D</i> , 2008, 78, .	4.7	2
105	The Planck LFI RCA flight model test campaign. <i>New Astronomy Reviews</i> , 2007, 51, 305-309.	12.8	1
106	An overview of the Planck mission. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 268-273.	0.0	1
107	Testing discrete symmetries with the cosmic microwave background: current constraints and Planck forecasts. <i>Journal of Physics: Conference Series</i> , 2011, 335, 012009.	0.4	1
108	THE PLANCK MISSION: RECENT RESULTS, COSMOLOGICAL AND FUNDAMENTAL PHYSICS PERSPECTIVES. <i>International Journal of Modern Physics D</i> , 2013, 22, 1330029.	2.1	1