

# Patricio Vielva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7205495/publications.pdf>

Version: 2024-02-01

251  
papers

53,223  
citations

2322

98  
h-index

1190

228  
g-index

251  
all docs

251  
docs citations

251  
times ranked

21138  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
2	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A6.	5.1	6,722
3	<i>Planck</i> 2013 results. XVI. Cosmological parameters. Astronomy and Astrophysics, 2014, 571, A16.	5.1	4,703
4	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A10.	5.1	1,261
5	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A20.	5.1	1,233
6	<i>Planck</i> 2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1.	5.1	948
7	Joint Analysis of BICEP2/<i>Keck Array</i> and <i>Planck</i> Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
8	<i>Planck</i> 2013 results. XXII. Constraints on inflation. Astronomy and Astrophysics, 2014, 571, A22.	5.1	806
9	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A1.	5.1	804
10	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
11	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2021, 652, C4.	5.1	627
12	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
13	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A14.	5.1	568
14	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. Astronomy and Astrophysics, 2014, 571, A11.	5.1	566
15	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A5.	5.1	558
16	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A27.	5.1	535
17	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A24.	5.1	525
18	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. Astronomy and Astrophysics, 2014, 571, A20.	5.1	465

#	ARTICLE	IF	CITATIONS
19	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A17.	5.1	440
20	Detection of Non-Gaussianity in the Wilkinson Microwave Anisotropy Probe First-Year Data Using Spherical Wavelets. <i>Astrophysical Journal</i> , 2004, 609, 22-34.	4.5	401
21	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A8.	5.1	400
22	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	5.1	394
23	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A10.	5.1	384
24	<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
25	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A108.	5.1	375
26	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	5.1	367
27	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	5.1	364
28	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A15.	5.1	360
29	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A107.	5.1	359
30	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	5.1	350
31	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A16.	5.1	338
32	<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
33	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A9.	5.1	319
34	<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
35	<i>Planck</i> intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust. <i>Astronomy and Astrophysics</i> , 2015, 576, A104.	5.1	296
36	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A131.	5.1	276

#	ARTICLE	IF	CITATIONS
37	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A22.	5.1	274
38	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A19.	5.1	273
39	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	5.1	272
40	Detection of a non-Gaussian spot in WMAP. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 356, 29-40.	4.4	270
41	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A138.	5.1	270
42	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	5.1	224
43	<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
44	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A4.	5.1	218
45	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	5.1	216
46	<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
47	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A8.	5.1	209
48	Component separation methods for the PLANCK mission. <i>Astronomy and Astrophysics</i> , 2008, 491, 597-615.	5.1	189
49	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A109.	5.1	185
50	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	5.1	184
51	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A9.	5.1	182
52	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A26.	5.1	182
53	<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
54	<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

#	ARTICLE	IF	CITATIONS
55	The Non-Gaussian Cold Spot in the 3 Year Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2007, 655, 11-20.	4.5	175
56	<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
57	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A133.	5.1	173
58	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A7.	5.1	172
59	<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
60	<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
61	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A3.	5.1	158
62	<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
63	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A25.	5.1	153
64	<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
65	The non-Gaussian cold spot in Wilkinson's Microwave Anisotropy Probe: significance, morphology and foreground contribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 57-67.	4.4	145
66	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	5.1	144
67	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52.	5.1	141
68	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
69	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A55.	5.1	134
70	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A28.	5.1	134
71	<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
72	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2017, 607, A95.	5.1	131

#	ARTICLE	IF	CITATIONS
73	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	5.1	129
74	<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
75	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	5.1	126
76	<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
77	A Cosmic Microwave Background Feature Consistent with a Cosmic Texture. <i>Science</i> , 2007, 318, 1612-1614.	12.6	125
78	<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
79	<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
80	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2020, 643, A42.	5.1	123
81	<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
82	<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
83	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A11.	5.1	118
84	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A12.	5.1	117
85	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	5.1	116
86	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A21.	5.1	114
87	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A132.	5.1	109
88	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A135.	5.1	109
89	<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
90	Cross-correlation of the cosmic microwave background and radio galaxies in real, harmonic and wavelet spaces: detection of the integrated Sachs-Wolfe effect and dark energy constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 891-901.	4.4	107

#	ARTICLE	IF	CITATIONS
91	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. Astronomy and Astrophysics, 2014, 571, A8.	5.1	107
92	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A139.	5.1	106
93	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A12.	5.1	105
94	<i>Planck</i> early results. XIII. Statistical properties of extragalactic radio sources in the <i>Planck</i> Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A13.	5.1	103
95	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A6.	5.1	103
96	The Mexican hat wavelet family: application to point-source detection in cosmic microwave background maps. Monthly Notices of the Royal Astronomical Society, 2006, 369, 1603-1610.	4.4	102
97	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A140.	5.1	101
98	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	5.1	100
99	<i>Planck</i> 2013 results. VII. HFI time response and beams. Astronomy and Astrophysics, 2014, 571, A7.	5.1	99
100	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
101	Detection of the integrated Sachs-Wolfe effect and corresponding dark energy constraints made with directional spherical wavelets. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1211-1226.	4.4	96
102	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A134.	5.1	94
103	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A7.	5.1	94
104	<i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	5.1	93
105	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. Astronomy and Astrophysics, 2011, 536, A2.	5.1	91
106	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. Astronomy and Astrophysics, 2014, 571, A26.	5.1	91
107	<i>Planck</i> 2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14.	5.1	90
108	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A140.	5.1	89

#	ARTICLE	IF	CITATIONS
109	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A23.	5.1	89
110	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A103.	5.1	89
111	<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
112	Isotropic wavelets: a powerful tool to extract point sources from cosmic microwave background maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 315, 757-761.	4.4	82
113	<i>Planck</i> pre-launch status: The <i>Planck</i>-LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	5.1	81
114	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 566, A54.	5.1	80
115	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 561, A97.	5.1	80
116	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2015, 580, A22.	5.1	80
117	<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
118	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A2.	5.1	79
119	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
120	<i>Planck</i> early results. V. The Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2011, 536, A5.	5.1	77
121	Exploring cosmic origins with CORE: Inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 016-016.	5.4	75
122	Limits on the detectability of the CMB B-mode polarization imposed by foregrounds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 360, 935-949.	4.4	74
123	<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
124	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	5.1	74
125	The CMB cold spot: texture, cluster or void?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 390, 913-919.	4.4	73
126	Exploring cosmic origins with CORE: Cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 017-017.	5.4	73

#	ARTICLE	IF	CITATIONS
127	<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. Astronomy and Astrophysics, 2011, 536, A26.	5.1	72
128	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2015, 582, A30.	5.1	72
129	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A136.	5.1	72
130	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A2.	5.1	72
131	<i>Planck</i> 2013 results. XXXI. Consistency of the <i>Planck</i> data. Astronomy and Astrophysics, 2014, 571, A31.	5.1	69
132	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A18.	5.1	69
133	Point source detection using the Spherical Mexican Hat Wavelet on simulated all-sky Planck maps. Monthly Notices of the Royal Astronomical Society, 2003, 344, 89-104.	4.4	68
134	<i>Planck</i> 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. Astronomy and Astrophysics, 2014, 571, A10.	5.1	68
135	<i>Planck</i> intermediate results. XXI. Comparison of polarized thermal emission from Galactic dust at 353 GHz with interstellar polarization in the visible. Astronomy and Astrophysics, 2015, 576, A106.	5.1	68
136	<i>Planck</i> 2013 results. V. LFI calibration. Astronomy and Astrophysics, 2014, 571, A5.	5.1	67
137	<i>Planck</i> intermediate results. XV. A study of anomalous microwave emission in Galactic clouds. Astronomy and Astrophysics, 2014, 565, A103.	5.1	67
138	Multiresolution internal template cleaning: an application to the Wilkinson Microwave Anisotropy Probe 7-yr polarization data. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2162-2169.	4.4	65
139	Global Universe Anisotropy Probed by the Alignment of Structures in the Cosmic Microwave Background. Physical Review Letters, 2006, 96, 151303.	7.8	64
140	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A110.	5.1	64
141	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	1.4	64
142	Comparison of filters for the detection of point sources in Planck simulations. Monthly Notices of the Royal Astronomical Society, 2006, 370, 2047-2063.	4.4	63
143	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A129.	5.1	63
144	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A6.	5.1	62

#	ARTICLE	IF	CITATIONS
145	Planck early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	5.1	61
146	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2015, 582, A31.	5.1	59
147	Predicted Planck extragalactic point-source catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 181-191.	4.4	58
148	QUIJOTE scientific results â€œ I. Measurements of the intensity and polarisation of the anomalous microwave emission in the Perseus molecular complex. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 4169-4182.	4.4	58
149	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A4.	5.1	56
150	<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
151	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A141.	5.1	55
152	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A5.	5.1	55
153	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	5.1	54
154	The miniJPAS survey: A preview of the Universe in 56 colors. <i>Astronomy and Astrophysics</i> , 2021, 653, A31.	5.1	54
155	Cosmic Birefringence from the <i>Planck</i> Data Release 4. <i>Physical Review Letters</i> , 2022, 128, 091302.	7.8	54
156	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A3.	5.1	53
157	Combining maximum-entropy and the Mexican hat wavelet to reconstruct the microwave sky. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 328, 1-16.	4.4	52
158	Cosmological Applications of a Wavelet Analysis on the Sphere. <i>Journal of Fourier Analysis and Applications</i> , 2007, 13, 495-510.	1.0	52
159	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A133.	5.1	52
160	A low cosmic microwave background variance in the Wilkinson Microwave Anisotropy Probe data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 209-219.	4.4	50
161	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	5.1	50
162	A Comprehensive Overview of the Cold Spot. <i>Advances in Astronomy</i> , 2010, 2010, 1-20.	1.1	49

#	ARTICLE	IF	CITATIONS
163	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A134.	5.1	48
164	Fast Directional Correlation on the Sphere with Steerable Filters. Astrophysical Journal, 2006, 652, 820-832.	4.5	47
165	Alignment and signed-intensity anomalies in Wilkinson Microwave Anisotropy Probe data. Monthly Notices of the Royal Astronomical Society, 2007, 381, 932-942.	4.4	47
166	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A105.	5.1	47
167	<i>Planck</i> intermediate results. XXVI. Optical identification and redshifts of <i>Planck</i> clusters with the RTT150 telescope. Astronomy and Astrophysics, 2015, 582, A29.	5.1	46
168	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2017, 599, A51.	5.1	46
169	The QUIJOTE-CMB experiment: studying the polarisation of the galactic and cosmological microwave emissions. Proceedings of SPIE, 2012, , .	0.8	44
170	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A100.	5.1	44
171	Exploring cosmic origins with CORE: <i>B</i>-mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
172	Cosmic microwave background power spectrum estimation and map reconstruction with the expectation-maximization algorithm. Monthly Notices of the Royal Astronomical Society, 2003, 345, 1101-1109.	4.4	41
173	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. Astronomy and Astrophysics, 2014, 571, A4.	5.1	41
174	Cosmic microwave background and foregrounds in Wilkinson Microwave Anisotropy Probe first-year data. Monthly Notices of the Royal Astronomical Society, 2005, 364, 1185-1194.	4.4	39
175	An ultradeep submillimetre map: beneath the SCUBA confusion limit with lensing and robust source extraction. Monthly Notices of the Royal Astronomical Society, 2006, 368, 487-496.	4.4	38
176	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2015, 580, A13.	5.1	37
177	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A130.	5.1	36
178	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A104.	5.1	36
179	Anomalous variance in the WMAP data and Galactic foreground residuals. Monthly Notices of the Royal Astronomical Society, 2011, 412, 2383-2390.	4.4	35
180	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2015, 582, A28.	5.1	33

#	ARTICLE	IF	CITATIONS
181	Complex Data Processing: Fast Wavelet Analysis on the Sphere. Journal of Fourier Analysis and Applications, 2007, 13, 477-493.	1.0	32
182	Searching for a dipole modulation in the large-scale structure of the Universe. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2392-2397.	4.4	32
183	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A139.	5.1	32
184	Constraints on fNL and gNL from the analysis of the N-pdf of the CMB large-scale anisotropies. Monthly Notices of the Royal Astronomical Society, 0, 404, 895-907.	4.4	30
185	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
186	A Bayesian non-parametric method to detect clusters in Planck data. Monthly Notices of the Royal Astronomical Society, 2002, 336, 1351-1363.	4.4	28
187	The Jubilee ISW project â€“ I. Simulated ISW and weak lensing maps and initial power spectra results. Monthly Notices of the Royal Astronomical Society, 2014, 438, 412-425.	4.4	28
188	The QUIJOTE CMB Experiment. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 127-135.	0.3	28
189	Non-Gaussianity analysis on local morphological measures of WMAP data. Monthly Notices of the Royal Astronomical Society, 2008, 385, 939-947.	4.4	27
190	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A137.	5.1	27
191	The very bright SCUBA galaxy count: looking for SCUBA galaxies with the Mexican hat wavelet. Monthly Notices of the Royal Astronomical Society, 2004, 352, 961-974.	4.4	26
192	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A102.	5.1	25
193	Exploring cosmic origins with CORE: The instrument. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 015-015.	5.4	25
194	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A101.	5.1	24
195	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2017, 607, A122.	5.1	24
196	Steerable wavelet analysis of CMB structures alignment. New Astronomy Reviews, 2006, 50, 880-888.	12.8	23
197	Planck intermediate results. Astronomy and Astrophysics, 2016, 596, A106.	5.1	23
198	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2018, 617, A48.	5.1	22

#	ARTICLE	IF	CITATIONS
199	Foreground separation using a flexible maximum-entropy algorithm: an application to COBE data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 351, 515-540.	4.4	21
200	Analysis of non-Gaussian cosmic microwave background maps based on the N-pdf. Application to Wilkinson Microwave Anisotropy Probe data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 837-848.	4.4	21
201	An optimal estimator for the CMB-LSS angular power spectrum and its application to WMAP and NVSS data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 3044-3054.	4.4	21
202	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A128.	5.1	20
203	Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 020-020.	5.4	20
204	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2020, 644, A100.	5.1	20
205	Planck intermediate results. XII: Diffuse Galactic components in the Gould Belt system. <i>Astronomy and Astrophysics</i> , 2013, 557, A53.	5.1	19
206	Cosmic microwave background images. <i>IEEE Signal Processing Magazine</i> , 2010, 27, 67.	5.6	18
207	Exploring cosmic origins with CORE: Effects of observer peculiar motion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 021-021.	5.4	18
208	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2018, 619, A94.	5.1	18
209	Exploring cosmic origins with CORE: Cluster science. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 019-019.	5.4	17
210	Detection of spectral variations of Anomalous Microwave Emission with QUIJOTE and C-BASS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2927-2943.	4.4	17
211	A Linear Filter to Reconstruct the ISW Effect From CMB and LSS Observations. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008, 2, 747-754.	10.8	16
212	The status of the QUIJOTE multi-frequency instrument. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
213	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A132.	5.1	15
214	Cosmic microwave background polarization as a probe of the anomalous nature of the cold spot. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 33-38.	4.4	14
215	Exploring cosmic origins with CORE: Mitigation of systematic effects. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 022-022.	5.4	14
216	Planck intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. <i>Astronomy and Astrophysics</i> , 2015, 573, A6.	5.1	13

#	ARTICLE	IF	CITATIONS
217	On the void explanation of the Cold Spot. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L15-L19.	3.3	13
218	Comparison of delensing methodologies and assessment of the delensing capabilities of future experiments. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 058-058.	5.4	13
219	The non-Gaussian cold spot in WMAP. New Astronomy Reviews, 2006, 50, 875-879.	12.8	12
220	Integrated Sachs-Wolfe effect map recovery from NVSS and WMAP 7-yr data. Monthly Notices of the Royal Astronomical Society, 2013, 430, 259-263.	4.4	11
221	The shape of CMB temperature and polarization peaks on the sphere. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 058-058.	5.4	11
222	L2-CalSat: A Calibration Satellite for Ultra-Sensitive CMB Polarization Space Missions. Sensors, 2021, 21, 3361.	3.8	11
223	Wilkinson Microwave Anisotropy Probe 7-yr constraints on fNL with a fast wavelet estimator. Monthly Notices of the Royal Astronomical Society, 2011, 411, 2019-2025.	4.4	10
224	Exploring two-spin internal linear combinations for the recovery of the CMB polarization. Monthly Notices of the Royal Astronomical Society, 2016, 459, 441-454.	4.4	10
225	In-flight polarization angle calibration for LiteBIRD: blind challenge and cosmological implications. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 039.	5.4	9
226	On the detection of CMB B-modes from ground at low frequency. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 006-006.	5.4	8
227	Effect of component separation on the temperature distribution of the cosmic microwave background. Monthly Notices of the Royal Astronomical Society, 2006, 368, 226-246.	4.4	7
228	Joint constraints on galaxy bias and $\delta$ through the N-pdf of the galaxy number density. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 005-005.	5.4	7
229	Bianchi VIII models and the cold spot texture. Monthly Notices of the Royal Astronomical Society, 2008, , .	4.4	5
230	On the recovery of ISW fluctuations using large-scale structure tracers and CMB temperature and polarization anisotropies. Monthly Notices of the Royal Astronomical Society, 2016, 459, 657-672.	4.4	5
231	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2018, 610, C1.	5.1	5
232	ECLIPSE: a fast Quadratic Maximum Likelihood estimator for CMB intensity and polarization power spectra. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 034.	5.4	5
233	Determination of polarization angles in CMB experiments and application to CMB component separation analyses. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 032.	5.4	5
234	Biparametric adaptive filter: detection of compact sources in complex microwave backgrounds. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2139-2154.	4.4	4

#	ARTICLE	IF	CITATIONS
235	Using CMB polarization to constrain the anomalous nature of the Cold Spot with an incomplete-sky coverage. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3096-3102.	4.4	4
236	<i>Planck</i> intermediate results<i> (Corrigendum)</i>. Astronomy and Astrophysics, 2013, 558, C2.	5.1	4
237	Multiscale analysis of the CMB temperature derivatives. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 026-026.	5.4	4
238	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2020, 644, A99.	5.1	4
239	On the regularity of the covariance matrix of a discretized scalar field on the sphere. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 022-022.	5.4	3
240	Local properties of the large-scale peaks of the CMB temperature. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 023-023.	5.4	3
241	Characterization of extragalactic point-sources on E- and B-mode maps of the CMB polarization. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 048.	5.4	3
242	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
243	Polarization angle requirements for CMB B-mode experiments. Application to the LiteBIRD satellite. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 029.	5.4	3
244	Probing the Gaussianity and the statistical isotropy of the CMB with spherical wavelets. , 2007, , .		2
245	Reconstructing the Microwave Sky Using a Combined Maximum-Entropy and Mexican Hat Wavelet Analysis. , 0, , 465-472.		1
246	THE COSMIC MICROWAVE BACKGROUND ANISOTROPIES: OPEN PROBLEMS. , 2006, , 1-23.		1
247	A Cosmic Microwave Background Feature Consistent with a Cosmic Texture. Topologica, 2008, 1, 008.	0.3	1
248	Point Source Detection on the Sphere Using Wavelets and Optimal Filters. , 2003, , 461-462.		0
249	Foreground Separation Methods for Satellite and Balloon Experiments. Symposium - International Astronomical Union, 2005, 201, 71-74.	0.1	0
250	Statistical analyses of galaxy-surveys to probe the standard cosmological model. , 2014, , .		0
251	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. International Journal of Modern Physics D, 2016, 25, 1630016.	2.1	0