

# Fernando Atrio-Barandela

## List of Publications by Year in descending order

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109  
papers

14,786  
citations

44069

48  
h-index

32842

100  
g-index

109  
all docs

109  
docs citations

109  
times ranked

11720  
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	<i>Planck</i> 2013 results. XXII. Constraints on inflation. <i>Astronomy and Astrophysics</i> , 2014, 571, A22.	5.1	806
4	<i>Planck</i> 2013 results. XI. All-sky model of thermal dust emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A11.	5.1	566
5	<i>Planck</i> 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts. <i>Astronomy and Astrophysics</i> , 2014, 571, A20.	5.1	465
6	Dark matter and dark energy interactions: theoretical challenges, cosmological implications and observational signatures. <i>Reports on Progress in Physics</i> , 2016, 79, 096901.	20.1	391
7	<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
8	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. <i>Astronomy and Astrophysics</i> , 2014, 571, A23.	5.1	367
9	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. <i>Astronomy and Astrophysics</i> , 2014, 571, A15.	5.1	364
10	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. <i>Astronomy and Astrophysics</i> , 2014, 571, A24.	5.1	350
11	<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
12	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	5.1	272
13	A Measurement of Large-Scale Peculiar Velocities of Clusters of Galaxies: Results and Cosmological Implications. <i>Astrophysical Journal</i> , 2008, 686, L49-L52.	4.5	223
14	<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
15	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	5.1	216
16	<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
17	Observational constraints on interacting quintessence models. <i>Physical Review D</i> , 2005, 71, .	4.7	181
18	<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

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19	<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
20	A NEW MEASUREMENT OF THE BULK FLOW OF X-RAY LUMINOUS CLUSTERS OF GALAXIES. <i>Astrophysical Journal Letters</i> , 2010, 712, L81-L85.	8.3	157
21	<i>Planck</i> 2013 results. XIII. Galactic CO emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A13.	5.1	144
22	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52.	5.1	141
23	<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
24	<i>Planck</i> 2013 results. IX. HFI spectral response. <i>Astronomy and Astrophysics</i> , 2014, 571, A9.	5.1	129
25	<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	126
26	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	5.1	126
27	<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
28	Matter density perturbations in interacting quintessence models. <i>Physical Review D</i> , 2006, 74, .	4.7	117
29	<i>Planck</i> 2013 results. XVIII. The gravitational lensing-infrared background correlation. <i>Astronomy and Astrophysics</i> , 2014, 571, A18.	5.1	116
30	<i>Planck</i> 2013 results. VIII. HFI photometric calibration and mapmaking. <i>Astronomy and Astrophysics</i> , 2014, 571, A8.	5.1	107
31	<i>Planck</i> 2013 results. VI. High Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A6.	5.1	103
32	<i>Planck</i> 2013 results. VII. HFI time response and beams. <i>Astronomy and Astrophysics</i> , 2014, 571, A7.	5.1	99
33	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	5.1	91
34	<i>Planck</i> 2013 results. XIV. Zodiacal emission. <i>Astronomy and Astrophysics</i> , 2014, 571, A14.	5.1	90
35	Dynamics of interacting quintessence models: Observational constraints. <i>Physical Review D</i> , 2008, 77, .	4.7	80
36	<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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37	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	5.1	74
38	<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
39	A MEASUREMENT OF LARGE-SCALE PECULIAR VELOCITIES OF CLUSTERS OF GALAXIES: TECHNICAL DETAILS. <i>Astrophysical Journal</i> , 2009, 691, 1479-1493.	4.5	71
40	<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
41	<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
42	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	5.1	67
43	<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
44	MEASURING THE DARK FLOW WITH PUBLIC X-RAY CLUSTER DATA. <i>Astrophysical Journal</i> , 2011, 732, 1.	4.5	64
45	<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
46	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	5.1	54
47	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	5.1	50
48	Measurement of the Electron-Pressure Profile of Galaxy Clusters in 3 Year <i>Wilkinson Microwave Anisotropy Probe</i> ( <i>WMAP</i> ) Data. <i>Astrophysical Journal</i> , 2008, 675, L57-L60.	4.5	48
49	Measuring Cosmological Bulk Flows via the Kinematic Sunyaev-Zeldovich Effect in the Upcoming Cosmic Microwave Background Maps. <i>Astrophysical Journal</i> , 2000, 536, L67-L71.	4.5	45
50	Looking at cosmic near-infrared background radiation anisotropies. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	45
51	<i>Planck</i> 2013 results. IV. Low Frequency Instrument beams and window functions. <i>Astronomy and Astrophysics</i> , 2014, 571, A4.	5.1	41
52	Temperature Anisotropies and Distortions Induced by Hot Intracluster Gas on the Cosmic Microwave Background. <i>Astrophysical Journal</i> , 1999, 515, 465-470.	4.5	39
53	PROBING THE DARK FLOW SIGNAL IN <i>WMAP</i> -9 -YEAR AND <i>PLANCK</i> COSMIC MICROWAVE BACKGROUND MAPS. <i>Astrophysical Journal</i> , 2015, 810, 143.	4.5	38
54	Constraining $f(R)$ gravity with <i>Planck</i> data on galaxy cluster profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 921-928.	4.4	36

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55	The Effect of Hot Gas in the First-Year Wilkinson Microwave Anisotropy Probe ( WMAP ) Data. <i>Astrophysical Journal</i> , 2004, 613, L89-L92.	4.5	35
56	The effect of dark matter and dark energy interactions on the peculiar velocity field and the kinetic Sunyaev-Zel'dovich effect. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 001-001.	5.4	35
57	Integrated Sachs-Wolfe effect in interacting dark energy models. <i>Physical Review D</i> , 2008, 77, .	4.7	33
58	CONSTRAINING THE REDSHIFT EVOLUTION OF THE COSMIC MICROWAVE BACKGROUND BLACKBODY TEMPERATURE WITH PLANCK DATA. <i>Astrophysical Journal</i> , 2015, 808, 128.	4.5	24
59	Steps toward the Power Spectrum of Matter. II. The Biasing Correction with $\delta$ Normalization. <i>Astrophysical Journal</i> , 1999, 519, 456-468.	4.5	23
60	Interacting hot dark matter. <i>Physical Review D</i> , 1997, 55, 5886-5894.	4.7	22
61	THE ERROR BUDGET OF THE DARK FLOW MEASUREMENT. <i>Astrophysical Journal</i> , 2010, 719, 77-87.	4.5	22
62	Steps toward the Power Spectrum of Matter. I. The Mean Spectrum of Galaxies. <i>Astrophysical Journal</i> , 1999, 519, 441-455.	4.5	22
63	The Contribution of the Intergalactic Medium to Cosmic Microwave Background Anisotropies. <i>Astrophysical Journal</i> , 2006, 643, 1-7.	4.5	20
64	Kinematic Sunyaev-Zel'dovich Cosmic Microwave Background Temperature Anisotropies Generated by Gas in Cosmic Structures. <i>Astrophysical Journal</i> , 2008, 674, L61-L64.	4.5	19
65	Planck intermediate results. XII: Diffuse Galactic components in the Gould Belt system. <i>Astronomy and Astrophysics</i> , 2013, 557, A53.	5.1	19
66	On the statistical significance of the bulk flow measured by the Planck satellite. <i>Astronomy and Astrophysics</i> , 2013, 557, A116.	5.1	18
67	MEASURING THE REDSHIFT DEPENDENCE OF THE COSMIC MICROWAVE BACKGROUND MONOPOLE TEMPERATURE WITH PLANCK DATA. <i>Astrophysical Journal</i> , 2012, 757, 144.	4.5	17
68	Measuring the Mach Number of the Universe via the Sunyaev-Zeldovich Effect. <i>Astrophysical Journal</i> , 2004, 601, L111-L114.	4.5	16
69	A built-in scale in the initial spectrum of density perturbations: Evidence from cluster and CMB data. <i>JETP Letters</i> , 1997, 66, 397-403.	1.4	13
70	Planck intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. <i>Astronomy and Astrophysics</i> , 2015, 573, A6.	5.1	13
71	CONSTRAINING THE BARYON FRACTION IN THE WARM HOT INTERGALACTIC MEDIUM AT LOW REDSHIFTS WITH PLANCK DATA. <i>Astrophysical Journal</i> , 2015, 806, 113.	4.5	12
72	Gravitational field fluctuations in weakly clustered systems. <i>Astrophysical Journal</i> , 1992, 392, 403.	4.5	12

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73	THE CONTRIBUTION OF THE KINEMATIC SUNYAEV-ZEL'DOVICH EFFECT FROM THE WARM-HOT INTERGALACTIC MEDIUM TO THE FIVE-YEAR WILKINSON MICROWAVE ANISOTROPY PROBE DATA. <i>Astrophysical Journal</i> , 2009, 700, 447-453.	4.5	11
74	LYMAN-TOMOGRAPHY OF COSMIC INFRARED BACKGROUND FLUCTUATIONS WITH EUCLID : PROBING EMISSIONS AND BARYONIC ACOUSTIC OSCILLATIONS AT $z \approx 10$ . <i>Astrophysical Journal Letters</i> , 2015, 813, L12.	8.3	11
75	Determining Cosmic Microwave Background Structure from Its Peak Distribution. <i>Astrophysical Journal</i> , 2001, 557, L1-L5.	4.5	11
76	Steps toward the Power Spectrum of Matter. III. The Primordial Spectrum. <i>Astrophysical Journal</i> , 1999, 519, 469-478.	4.5	10
77	Cosmic microwave background temperature fluctuations and gravitational waves. <i>Physical Review D</i> , 1994, 49, 1126-1129.	4.7	9
78	SZ/X-ray scaling relations using X-ray data and Planck Nominal maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3222-3232.	4.4	8
79	Secondary ionization in a flat universe. <i>Astrophysical Journal</i> , 1994, 420, 26.	4.5	8
80	Observational Matter Power Spectrum and the Height of the Second Acoustic Peak. <i>Astrophysical Journal</i> , 2001, 559, 1-8.	4.5	7
81	PROBING THE EPOCH OF PRE-REIONIZATION BY CROSS-CORRELATING COSMIC MICROWAVE AND INFRARED BACKGROUND ANISOTROPIES. <i>Astrophysical Journal Letters</i> , 2014, 797, L26.	8.3	7
82	Using peak distribution of the cosmic microwave background for WMAP and Planck data analysis: Formalism and simulations. <i>Astronomy and Astrophysics</i> , 2004, 413, 833-842.	5.1	7
83	Fluctuations of the microwave background radiation on large and intermediate angular scales. <i>Astrophysical Journal</i> , 1991, 378, 1.	4.5	7
84	The contribution of the warm-hot intergalactic medium to the cosmic microwave background anisotropies via the Sunyaev-Zeldovich effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 342-348.	4.4	6
85	Constraints on the Sunyaev-Zel'dovich signal from the warm-hot intergalactic medium from WMAP and SPT data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 2480-2487.	4.4	6
86	Lensing and the Warm-hot Intergalactic Medium. <i>Astrophysical Journal</i> , 2017, 845, 71.	4.5	6
87	Limits on Hot Intracluster Gas Contributions to the Tenerife Temperature Anisotropy Map. <i>Astrophysical Journal</i> , 2000, 538, 53-56.	4.5	5
88	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2018, 610, C1.	5.1	5
89	On the Number Density of Sunyaev-Zeldovich Clusters of Galaxies. <i>Astrophysical Journal</i> , 2000, 528, L69-L72.	4.5	4
90	Planck intermediate results (Corrigendum). <i>Astronomy and Astrophysics</i> , 2013, 558, C2.	5.1	4

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91	The Great Wall in the CfA survey - Its origin and imprint on the microwave background radiation. <i>Astrophysical Journal</i> , 1992, 390, 322.	4.5	4
92	Constraining dark energy interacting models with WMAP. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
93	THE SIGNATURE OF THE WARM-HOT INTERGALACTIC MEDIUM IN <i>WMAP</i> AND THE FORTHCOMING <i>PLANCK</i> DATA. <i>Astrophysical Journal</i> , 2013, 769, 25.	4.5	3
94	Probing $f(R)$ gravity with <i>PLANCK</i> data on cluster pressure profiles. <i>Journal of Physics: Conference Series</i> , 2015, 600, 012048.	0.4	3
95	The Power Spectrum of Microwave Background Temperature Anisotropies Measured by the Tenerife Experiment. <i>Astrophysical Journal</i> , 1997, 482, 1-5.	4.5	3
96	Comment on "Self-interacting warm dark matter". <i>Physical Review D</i> , 2001, 64, .	4.7	2
97	Bulk flows in inflation and in Lemaître-Tolman-Bondi models. <i>Journal of Physics: Conference Series</i> , 2010, 229, 012003.	0.4	2
98	The matter power spectrum of dark energy models and the Harrison-Zel'dovich prescription. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 008-008.	5.4	2
99	Fast Computational Convolution Methods for Extended Source Effects in Microlensing Light Curves. <i>Astrophysical Journal</i> , 2019, 880, 152.	4.5	2
100	Is there Any Evidence for Integrated Sachs-Wolfe Signal in WMAP First Year Data?. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
101	Stochasticity in galactic models. <i>Astrophysics and Space Science</i> , 1990, 170, 385-387.	1.4	0
102	Microwave Background Temperature Fluctuations. <i>Annals of the New York Academy of Sciences</i> , 1993, 688, 833-835.	3.8	0
103	The Coincidence Problem in Cosmology. <i>EAS Publications Series</i> , 2008, 30, 81-91.	0.3	0
104	Bulk flows from clusters of galaxies. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012083.	0.4	0
105	Large scale peculiar velocities from clusters of galaxies: Is the universe tilted?. , 2012, , .		0
106	The matter power spectrum as a test of cosmological models. , 2012, , .		0
107	THE MATTER POWER SPECTRUM AS A TOOL TO DISCRIMINATE DARK MATTER-DARK ENERGY INTERACTIONS. , 2008, , .		0
108	Is a Harrison-Zeldovich Power Spectrum Compatible with the Tenerife Cosmic Microwave Background Experiment?. <i>Astrophysical Journal</i> , 1996, 465, 523.	4.5	0

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109	Measuring Bulk Flows with the Kinematic Sunyaev-Zeldovich Effect in CMB Maps. , 0, , 473-475.		0