Fernando Atrio-Barandela

List of Publications by Year
in descending order

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109 papers	14,786 citations	44042 48 h-index	32815 100 g-index
109 all docs	109 docs citations	109 times ranked	11720 citing authors

#	Article	IF	Citations
1	Planck2013 results. XVI. Cosmological parameters. Astronomy and Astrophysics, 2014, 571, A16.	2.1	4,703
2	Planck2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1.	2.1	948
3	Planck2013 results. XXII. Constraints on inflation. Astronomy and Astrophysics, 2014, 571, A22.	2.1	806
4	Planck2013 results. XI. All-sky model of thermal dust emission. Astronomy and Astrophysics, 2014, 571, A11.	2.1	566
5	Planck2013 results. XX. Cosmology from Sunyaevâ€“Zeldovich cluster counts. Astronomy and Astrophysics, 2014, 571, A20.	2.1	465
6	Dark matter and dark energy interactions: theoretical challenges, cosmological implications and observational signatures. Reports on Progress in Physics, 2016, 79, 096901.	8.1	391
7	Planck2013 results. XXIX. ThePlanckcatalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2014, 571, A29.	2.1	380
8	Planck2013 results. XXIII. Isotropy and statistics of the CMB. Astronomy and Astrophysics, 2014, 571, A23.	2.1	367
9	Planck2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15.	2.1	364
10	Planck2013 results. XXIV. Constraints on primordial non-Gaussianity. Astronomy and Astrophysics, 2014, 571, A24.	2.1	350
11	Planckintermediate results. XIX. An overview of the polarized thermal emission from Galactic dust. Astronomy and Astrophysics, 2015, 576, A104.	2.1	296
12	Planck2013 results. XVII. Gravitational lensing by large-scale structure. Astronomy and Astrophysics, 2014, 571, A17.	2.1	272
13	A Measurement of Large-Scale Peculiar Velocities of Clusters of Galaxies: Results and Cosmological Implications. Astrophysical Journal, 2008, 686, L49-L52.	1.6	223
14	Planck2013 results. XXV. Searches for cosmic strings and other topological defects. Astronomy and Astrophysics, 2014, 571, A25.	2.1	223
15	Planck2013 results. XII. Diffuse component separation. Astronomy and Astrophysics, 2014, 571, A12.	2.1	216
16	Planck2013 results. XXX. Cosmic infrared background measurements and implications for star formation. Astronomy and Astrophysics, 2014, 571, A30.	2.1	210
17	Observational constraints on interacting quintessence models. Physical Review D, 2005, 71, .	1.6	181
18	Planck2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove. Astronomy and Astrophysics, 2014, 571, A27.	2.1	170

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19	Planck2013 results. XXVIII. ThePlanckCatalogue of Compact Sources. Astronomy and Astrophysics, 2014, 571, A28.	2.1	162
20	A NEW MEASUREMENT OF THE BULK FLOW OF X-RAY LUMINOUS CLUSTERS OF GALAXIES. Astrophysical Journal Letters, 2010, 712, L81-L85.	3.0	157
21	Planck2013 results. XIII. Galactic CO emission. Astronomy and Astrophysics, 2014, 571, A13.	2.1	144
22	Planckintermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
23	Planck2013 results. XXI. Power spectrum and high-order statistics of thePlanckall-sky Compton parameter map. Astronomy and Astrophysics, 2014, 571, A21.	2.1	133
24	Planck2013 results. IX. HFI spectral response. Astronomy and Astrophysics, 2014, 571, A9.	2.1	129
25	Planckintermediate results. XXII. Frequency dependence of thermalâ€‰emissionâ€‰fromâ€‰Galacticâ€‰dustâ€‰inâ€‰intensity and polarization. Astronomy and Astrophysics, 2015, 576, A107.	2.1	127
26	Planck2013 results. XIX. The integrated Sachs-Wolfe effect. Astronomy and Astrophysics, 2014, 571, A19.	2.1	126
27	Planckintermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence. Astronomy and Astrophysics, 2015, 576, A105.	2.1	119
28	Matter density perturbations in interacting quintessence models. Physical Review D, 2006, 74, .	1.6	117
29	Planck2013 results. XVIII. The gravitational lensing-infrared background correlation. Astronomy and Astrophysics, 2014, 571, A18.	2.1	116
30	Planck2013 results. VIII. HFI photometric calibration and mapmaking. Astronomy and Astrophysics, 2014, 571, A8.	2.1	107
31	Planck2013 results. VI. High Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A6.	2.1	103
32	Planck2013 results. VII. HFI time response and beams. Astronomy and Astrophysics, 2014, 571, A7.	2.1	99
33	Planck2013 results. XXVI. Background geometry and topology of the Universe. Astronomy and Astrophysics, 2014, 571, A26.	2.1	91
34	Planck2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14.	2.1	90
35	Dynamics of interacting quintessence models: Observational constraints. Physical Review D, 2008, 77, .	1.6	80
36	Planck2013 results. XXXII. The updatedPlanckcatalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2015, 581, A14.	2.1	80

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37	Planck2013 results. II. Low Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A2.	2.1	74
38	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.	2.1	72
39	A MEASUREMENT OF LARGE-SCALE PECULIAR VELOCITIES OF CLUSTERS OF GALAXIES: TECHNICAL DETAILS. Astrophysical Journal, 2009, 691, 1479-1493.	1.6	71
40	Planck2013 results. X. HFI energetic particle effects: characterization, removal, and simulation. Astronomy and Astrophysics, 2014, 571, A10.	2.1	68
41	Planckintermediate 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.	2.1	68
42	Planck2013 results. V. LFI calibration. Astronomy and Astrophysics, 2014, 571, A5.	2.1	67
43	Planckintermediate results. XV. A study of anomalous microwave emission in Galactic clouds. Astronomy and Astrophysics, 2014, 565, A103.	2.1	67
44	MEASURING THE DARK FLOW WITH PUBLIC X-RAY CLUSTER DATA. Astrophysical Journal, 2011, 732, 1.	1.6	64
45	Planckintermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. Astronomy and Astrophysics, 2014, 564, A45.	2.1	55
46	Planck2013 results. III. LFI systematic uncertainties. Astronomy and Astrophysics, 2014, 571, A3.	2.1	54
47	Planckintermediate results. Astronomy and Astrophysics, 2012, 543, A102.	2.1	50
48	Measurement of the Electron-Pressure Profile of Galaxy Clusters in 3 Year Wilkinson Microwave Anisotropy Probe (WMAP) Data. Astrophysical Journal, 2008, 675, L57-L60.	1.6	48
49	Measuring Cosmological Bulk Flows via the Kinematic Sunyaev-Zeldovich Effect in the Upcoming Cosmic Microwave Background Maps. Astrophysical Journal, 2000, 536, L67-L71.	1.6	45
50	Looking at cosmic near-infrared background radiation anisotropies. Reviews of Modern Physics, 2018, 90, .	16.4	45
51	Planck2013 results. IV. Low Frequency Instrument beams and window functions. Astronomy and Astrophysics, 2014, 571, A4.	2.1	41
52	Temperature Anisotropies and Distortions Induced by Hot Intracluster Gas on the Cosmic Microwave Background. Astrophysical Journal, 1999, 515, 465-470.	1.6	39
53	PROBING THE DARK FLOW SIGNAL INWMAP9 -YEAR ANDPLANCKCOSMIC MICROWAVE BACKGROUND MAPS. Astrophysical Journal, 2015, 810, 143.	1.6	38
54	Constraining f(R) gravity with Planck data on galaxy cluster profiles. Monthly Notices of the Royal Astronomical Society, 2014, 442, 921-928.	1.6	36

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55	The Effect of Hot Gas in the First-Year Wilkinson Microwave Anisotropy Probe (WMAP) Data. Astrophysical Journal, 2004, 613, L89-L92.	1.6	35
56	The effect of dark matter and dark energy interactions on the peculiar velocity field and the kinetic Sunyaev-Zel'dovich effect. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 001-001.	1.9	35
57	Integrated Sachs-Wolfe effect in interacting dark energy models. Physical Review D, 2008, 77, .	1.6	33
58	CONSTRAINING THE REDSHIFT EVOLUTION OF THE COSMIC MICROWAVE BACKGROUND BLACKBODY TEMPERATURE WITHPLANCKDATA. Astrophysical Journal, 2015, 808, 128.	1.6	24
59	Steps toward the Power Spectrum of Matter. II. The Biasing Correction with Ïƒ8Normalization. Astrophysical Journal, 1999, 519, 456-468.	1.6	23
60	Interacting hot dark matter. Physical Review D, 1997, 55, 5886-5894.	1.6	22
61	THE ERROR BUDGET OF THE DARK FLOW MEASUREMENT. Astrophysical Journal, 2010, 719, 77-87.	1.6	22
62	Steps toward the Power Spectrum of Matter. I. The Mean Spectrum of Galaxies. Astrophysical Journal, 1999, 519, 441-455.	1.6	22
63	The Contribution of the Intergalactic Medium to Cosmic Microwave Background Anisotropies. Astrophysical Journal, 2006, 643, 1-7.	1.6	20
64	Kinematic Sunyaev-Zel'dovich Cosmic Microwave Background Temperature Anisotropies Generated by Gas in Cosmic Structures. Astrophysical Journal, 2008, 674, L61-L64.	1.6	19
65	PlanckÂintermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	2.1	19
66	On the statistical significance of the bulk flow measured by thePlancksatellite. Astronomy and Astrophysics, 2013, 557, A116.	2.1	18
67	MEASURING THE REDSHIFT DEPENDENCE OF THE COSMIC MICROWAVE BACKGROUND MONOPOLE TEMPERATURE WITH PLANCK DATA. Astrophysical Journal, 2012, 757, 144.	1.6	17
68	Measuring the Mach Number of the Universe via the Sunyaev-Zeldovich Effect. Astrophysical Journal, 2004, 601, L111-L114.	1.6	16
69	A built-in scale in the initial spectrum of density perturbations: Evidence from cluster and CMB data. JETP Letters, 1997, 66, 397-403.	0.4	13
70	Planckintermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae. Astronomy and Astrophysics, 2015, 573, A6.	2.1	13
71	CONSTRAINING THE BARYON FRACTION IN THE WARM HOT INTERGALACTIC MEDIUM AT LOW REDSHIFTS WITH PLANCK DATA. Astrophysical Journal, 2015, 806, 113.	1.6	12
72	Gravitational field fluctuations in weakly clustered systems. Astrophysical Journal, 1992, 392, 403.	1.6	12

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73	THE CONTRIBUTION OF THE KINEMATIC SUNYAEV-ZEL'DOVICH EFFECT FROM THE WARM-HOT INTERGALACTIC MEDIUM TO THE FIVE-YEARWILKINSON MICROWAVE ANISOTROPY PROBEDATA. Astrophysical Journal, 2009, 700, 447-453.	1.6	11
74	LYMAN-TOMOGRAPHY OF COSMIC INFRARED BACKGROUND FLUCTUATIONS WITH EUCLID : PROBING EMISSIONS AND BARYONIC ACOUSTIC OSCILLATIONS AT z â‰³ 10. Astrophysical Journal Letters, 2015, 813, L12.	3.0	11
75	Determining Cosmic Microwave Background Structure from Its Peak Distribution. Astrophysical Journal, 2001, 557, L1-L5.	1.6	11
76	Steps toward the Power Spectrum of Matter. III. The Primordial Spectrum. Astrophysical Journal, 1999, 519, 469-478.	1.6	10
77	Cosmic microwave background temperature fluctuations and gravitational waves. Physical Review D, 1994, 49, 1126-1129.	1.6	9
78	SZ/X-ray scaling relations using X-ray data andPlanckNominal maps. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3222-3232.	1.6	8
79	Secondary ionization in a flat universe. Astrophysical Journal, 1994, 420, 26.	1.6	8
80	Observational Matter Power Spectrum and the Height of the Second Acoustic Peak. Astrophysical Journal, 2001, 559, 1-8.	1.6	7
81	PROBING THE EPOCH OF PRE-REIONIZATION BY CROSS-CORRELATING COSMIC MICROWAVE AND INFRARED BACKGROUND ANISOTROPIES. Astrophysical Journal Letters, 2014, 797, L26.	3.0	7
82	Using peak distribution of the cosmic microwave background for WMAP and Planck data analysis: Formalism and simulations. Astronomy and Astrophysics, 2004, 413, 833-842.	2.1	7
83	Fluctuations of the microwave background radiation on large and intermediate angular scales. Astrophysical Journal, 1991, 378, 1.	1.6	7
84	The contribution of the warm-hot intergalactic medium to the cosmic microwave background anisotropies via the Sunyaevâ€“Zeldovich effect. Monthly Notices of the Royal Astronomical Society, 2013, 431, 342-348.	1.6	6
85	Constraints on the Sunyaevâ€“Zel'dovich signal from the warmâ€“hot intergalactic medium from WMAP and SPT data. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2480-2487.	1.6	6
86	Lensing and the Warm-hot Intergalactic Medium. Astrophysical Journal, 2017, 845, 71.	1.6	6
87	Limits on Hot Intracluster Gas Contributions to the Tenerife Temperature Anisotropy Map. Astrophysical Journal, 2000, 538, 53-56.	1.6	5
88	Planck intermediate results. Astronomy and Astrophysics, 2018, 610, C1.	2.1	5
89	On the Number Density of Sunyaev-Zeldovich Clusters of Galaxies. Astrophysical Journal, 2000, 528, L69-L72.	1.6	4
90	Planckintermediate results(Corrigendum). Astronomy and Astrophysics, 2013, 558, C2.	2.1	4

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91	The Great Wall in the CfA survey - Its origin and imprint on the microwave background radiation. Astrophysical Journal, 1992, 390, 322.	1.6	4
92	Constraining dark energy interacting models with WMAP. AIP Conference Proceedings, 2006, , .	0.3	3
93	THE SIGNATURE OF THE WARM-HOT INTERGALACTIC MEDIUM INWMAPAND THE FORTHCOMINGPLANCKDATA. Astrophysical Journal, 2013, 769, 25.	1.6	3
94	Probingf(R) gravity with PLANCK data on cluster pressure profiles. Journal of Physics: Conference Series, 2015, 600, 012048.	0.3	3
95	The Power Spectrum of Microwave Background Temperature Anisotropies Measured by the Tenerife Experiment. Astrophysical Journal, 1997, 482, 1-5.	1.6	3
96	Comment on â€œSelf-interacting warm dark matterâ€• Physical Review D, 2001, 64, .	1.6	2
97	Bulk flows in inflation and in LemaÃ®tre-Tolman-Bondi models. Journal of Physics: Conference Series, 2010, 229, 012003.	0.3	2
98	The matter power spectrum of dark energy models and the Harrison-Zel'dovich prescription. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 008-008.	1.9	2
99	Fast Computational Convolution Methods for Extended Source Effects in Microlensing Light Curves. Astrophysical Journal, 2019, 880, 152.	1.6	2
100	Is there Any Evidence for Integrated Sachs-Wolfe Signal in WMAP First Year Data?. AIP Conference Proceedings, 2006, , .	0.3	1
101	Stochasticity in galactic models. Astrophysics and Space Science, 1990, 170, 385-387.	0.5	0
102	Microwave Background Temperature Fluctuations. Annals of the New York Academy of Sciences, 1993, 688, 833-835.	1.8	0
103	The Coincidence Problem in Cosmology. EAS Publications Series, 2008, 30, 81-91.	0.3	0
104	Bulk flows from clusters of galaxies. Journal of Physics: Conference Series, 2011, 314, 012083.	0.3	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?. Astrophysical Journal, 1996, 465, 523.	1.6	0

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