

Elena Pierpaoli

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,871
citations

361413

20
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2003
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Inflation with CMB Polarization. , 2009, , .		252
2	New Cosmic Microwave Background Constraint to Primordial Gravitational Waves. Physical Review Letters, 2006, 97, 021301.	7.8	170
3	Power-spectrum normalization from the local abundance of rich clusters of galaxies. Monthly Notices of the Royal Astronomical Society, 2001, 325, 77-88.	4.4	165
4	On determining the cluster abundance normalization. Monthly Notices of the Royal Astronomical Society, 2003, 342, 163-175.	4.4	120
5	Effects of dark matter decay and annihilation on the high-redshift 21cm background. Physical Review D, 2006, 74, .	4.7	97
6	Constraining isocurvature initial conditions with WMAP 3-year data. Physical Review D, 2006, 74, .	4.7	93
7	Cosmological signatures of interacting neutrinos. Physical Review D, 2006, 73, .	4.7	93
8	X-ray, lensing and Sunyaev-Zel'dovich triaxial analysis of Abell 1835 out to R_{200} . Monthly Notices of the Royal Astronomical Society, 2012, 425, 2069-2082.	4.4	73
9	Decaying Particles and the Reionization History of the Universe. Physical Review Letters, 2004, 92, 031301.	7.8	66
10	Constraints on the cosmic neutrino background. Monthly Notices of the Royal Astronomical Society, 2003, 342, L63-L66.	4.4	61
11	A MULTI-WAVELENGTH STUDY OF THE SUNYAEV-ZEL'DOVICH EFFECT IN THE TRIPLE-MERGER CLUSTER MACS J0717.5+3745 WITH MUSTANG AND BOLOCAM. Astrophysical Journal, 2012, 761, 47.	4.5	59
12	Boomerang Returns Unexpectedly. Astrophysical Journal, 2000, 545, 1-5.	4.5	54
13	Constraining massive neutrinos using cosmological 21cm observations. Physical Review D, 2008, 78, .	4.7	50
14	Merger-induced scatter and bias in the cluster mass-Sunyaev-Zel'dovich effect scaling relation. Monthly Notices of the Royal Astronomical Society, 2012, 419, 1766-1779.	4.4	41
15	Optical Cluster Finding with an Adaptive Matched-Filter Technique: Algorithm and Comparison with Simulations. Astrophysical Journal, 2008, 676, 868-879.	4.5	37
16	Formation of cosmic structures in a light gravitino-dominated universe. Physical Review D, 1998, 57, 2089-2100.	4.7	35
17	A COMPARISON AND JOINT ANALYSIS OF SUNYAEV-ZEL'DOVICH EFFECT MEASUREMENTS FROM PLANCK AND BOLOCAM FOR A SET OF 47 MASSIVE GALAXY CLUSTERS. Astrophysical Journal, 2016, 832, 26.	4.5	35
18	Microwave background anisotropies and large scale structure constraints on isocurvature modes in a two-field model of inflation. Journal of High Energy Physics, 1999, 1999, 015-015.	4.7	33

#	ARTICLE	IF	CITATIONS
19	The Spectral Action and Cosmic Topology. <i>Communications in Mathematical Physics</i> , 2011, 304, 125-174.	2.2	30
20	Kinetic Sunyaev-Zeldovich effect in an anisotropic CMB model: Measuring low multipoles of the CMB at higher redshifts using intensity and polarization spectral distortions. <i>Physical Review D</i> , 2016, 94, .	4.7	27
21	Point source contamination in CMB non-Gaussianity analyses. <i>Physical Review D</i> , 2008, 77, .	4.7	23
22	The Coupling of Topology and Inflation in Noncommutative Cosmology. <i>Communications in Mathematical Physics</i> , 2012, 309, 341-369.	2.2	22
23	Constraints on the Mass, Concentration, and Nonthermal Pressure Support of Six CLASH Clusters from a Joint Analysis of X-Ray, SZ, and Lensing Data. <i>Astrophysical Journal</i> , 2018, 861, 71.	4.5	19
24	Pairwise Transverse Velocity Measurement with the Rees-Sciama Effect. <i>Astrophysical Journal Letters</i> , 2019, 873, L23.	8.3	19
25	IMPACTS OF DARK STARS ON REIONIZATION AND SIGNATURES IN THE COSMIC MICROWAVE BACKGROUND. <i>Astrophysical Journal</i> , 2011, 742, 129.	4.5	17
26	Constraints on modified gravity from Sunyaev-Zeldovich cluster surveys. <i>Physical Review D</i> , 2012, 85, .	4.7	17
27	Thermodynamic profiles of galaxy clusters from a joint X-ray/SZ analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 749-792.	4.4	17
28	Constraining Cluster Virialization Mechanism and Cosmology Using Thermal-SZ-selected Clusters from Future CMB Surveys. <i>Astrophysical Journal</i> , 2022, 926, 172.	4.5	16
29	Point Sources in the Wilkinson Microwave Anisotropy Probe Sky Maps. <i>Astrophysical Journal</i> , 2003, 589, 58-66.	4.5	15
30	Probing the Largest Scale Structure in the Universe with Polarization Map of Galaxy Clusters. <i>Physical Review Letters</i> , 2005, 95, 101302.	7.8	15
31	Measurement of the Sunyaev-Zel'dovich increment in massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, 1179-1188.	4.4	13
32	Dark matter implications of the WMAP-Planck Haze. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 060-060.	5.4	13
33	Beyond the Boost: Measuring the Intrinsic Dipole of the Cosmic Microwave Background Using the Spectral Distortions of the Monopole and Quadrupole. <i>Physical Review Letters</i> , 2017, 119, 221102.	7.8	13
34	Optical design of the EPIC-IM crossed Dragone telescope. <i>Proceedings of SPIE</i> , 2010, .	0.8	8
35	CMB and large-scale structure as a test of mixed models with $n > 1$. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 305, 425-436.	4.4	7
36	Generalized Doppler and aberration kernel for frequency-dependent cosmological observables. <i>Physical Review D</i> , 2017, 96, .	4.7	7

#	ARTICLE	IF	CITATIONS
37	STILL FLAT AFTER ALL THESE YEARS!. Modern Physics Letters A, 2000, 15, 1357-1362.	1.2	6
38	Constraints on neutrino mass from Sunyaev-Zeldovich cluster surveys. Physical Review D, 2013, 87, .	4.7	6
39	Large-Scale Structure in Mixed Dark Matter Models with a Nonthermal Volatile Component. Astrophysical Journal, 1996, 470, 92.	4.5	6
40	Neutrino mass from cosmological 21 cm observations. Nuclear Physics, Section B, Proceedings Supplements, 2009, 188, 31-33.	0.4	5
41	Constraints on non-Gaussianity from Sunyaev-Zeldovich cluster surveys. Physical Review D, 2012, 86, .	4.7	5
42	Footprints of Doppler and aberration effects in cosmic microwave background experiments: statistical and cosmological implications. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1708-1724.	4.4	5
43	Reionization Science with the Cosmic Microwave Background. , 2009, , .		3
44	LoVoCCS. I. Survey Introduction, Data Processing Pipeline, and Early Science Results. Astrophysical Journal, 2022, 933, 84.	4.5	2
45	Effects of boosting on extragalactic components: Methods and statistical studies. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	1
46	CLUSTERS OF GALAXIES. , 2011, , 89-109.		0