

Mauro Roncarelli

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,832
citations

218677

26
h-index

265206

42
g-index

53
all docs

53
docs citations

53
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal thermodynamic properties of the intracluster medium over two decades in radius in the X-COP sample. <i>Astronomy and Astrophysics</i> , 2019, 621, A41.	5.1	128
2	The gas distribution in the outer regions of galaxy clusters. <i>Astronomy and Astrophysics</i> , 2012, 541, A57.	5.1	116
3	Outskirts of Galaxy Clusters. <i>Space Science Reviews</i> , 2013, 177, 195-245.	8.1	114
4	Non-thermal pressure support in X-COP galaxy clusters. <i>Astronomy and Astrophysics</i> , 2019, 621, A40.	5.1	108
5	Hydrostatic mass profiles in X-COP galaxy clusters. <i>Astronomy and Astrophysics</i> , 2019, 621, A39.	5.1	102
6	Simulated X-ray galaxy clusters at the virial radius: Slopes of the gas density, temperature and surface brightness profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 1339-1350.	4.4	87
7	Large-scale inhomogeneities of the intracluster medium: improving mass estimates using the observed azimuthal scatter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 3030-3046.	4.4	73
8	Gas clumping in galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2198-2208.	4.4	70
9	The imprints of local superclusters on the Sunyaev-Zel'dovich signals and their detectability with Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 29-39.	4.4	66
10	<i>Euclid</i> preparation: IX. EuclidEmulator2 â€™ power spectrum emulation with massive neutrinos and self-consistent dark energy perturbations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2840-2869.	4.4	62
11	The XMM Cluster Outskirts Project (X-COP): Physical conditions of Abell 2142 up to the virial radius. <i>Astronomy and Astrophysics</i> , 2016, 595, A42.	5.1	51
12	<i>Euclid</i> preparation. <i>Astronomy and Astrophysics</i> , 2019, 627, A23.	5.1	51
13	The Sunyaev-Zel'dovich effects from a cosmological hydrodynamical simulation: large-scale properties and correlation with the soft X-ray signal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 1259-1269.	4.4	46
14	AMICO galaxy clusters in KiDS-DR3: weak lensing mass calibration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1598-1615.	4.4	45
15	The nature of the unresolved extragalactic cosmic soft X-ray background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 651-663.	4.4	44
16	AMICO: optimized detection of galaxy clusters in photometric surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 5221-5236.	4.4	42
17	<sc>amico</sc> galaxy clusters in KiDS-DR3: sample properties and selection function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 498-512.	4.4	40
18	Properties of the diffuse X-ray background in a high-resolution hydrodynamical simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 368, 74-84.	4.4	38

#	ARTICLE	IF	CITATIONS
19	STUDYING THE WARM HOT INTERGALACTIC MEDIUM WITH GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2009, 697, 328-344.	4.5	38
20	Measuring turbulence and gas motions in galaxy clusters via synthetic <i>Athena</i> X-IFU observations. <i>Astronomy and Astrophysics</i> , 2018, 618, A39.	5.1	36
21	The scatter in the radial profiles of X-ray luminous galaxy clusters as diagnostic of the thermodynamical state of the ICM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 2305-2313.	4.4	34
22	Detecting shocked intergalactic gas with X-ray and radio observations. <i>Astronomy and Astrophysics</i> , 2019, 627, A5.	5.1	32
23	Searching for galaxy clusters in the Kilo-Degree Survey. <i>Astronomy and Astrophysics</i> , 2017, 598, A107.	5.1	30
24	Missing baryons traced by the galaxy luminosity density in large-scale WHIM filaments. <i>Astronomy and Astrophysics</i> , 2015, 583, A142.	5.1	29
25	<i>Athena</i> X-IFU synthetic observations of galaxy clusters to probe the chemical enrichment of the Universe. <i>Astronomy and Astrophysics</i> , 2018, 620, A173.	5.1	28
26	The effect of feedback on the emission properties of the warm-hot intergalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 1012-1025.	4.4	27
27	The effect of massive neutrinos on the Sunyaev-Zel'dovich and X-ray observables of galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1761-1773.	4.4	27
28	AMICO galaxy clusters in KiDS-DR3: Cosmological constraints from counts and stacked weak lensing. <i>Astronomy and Astrophysics</i> , 2022, 659, A88.	5.1	25
29	Imprints of primordial non-Gaussianities in X-ray and SZ signals from galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 923-933.	4.4	23
30	STUDYING THE WARM-HOT INTERGALACTIC MEDIUM IN EMISSION. <i>Astrophysical Journal</i> , 2011, 734, 91.	4.5	21
31	EDGE: Explorer of diffuse emission and gamma-ray burst explosions. <i>Experimental Astronomy</i> , 2009, 23, 67-89.	3.7	19
32	EFFECT OF METALLICITY ON X-RAY EMISSION FROM THE WARM-HOT INTERGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2010, 721, 46-58.	4.5	15
33	Constraining the origin and models of chemical enrichment in galaxy clusters using the <i>Athena</i> X-IFU. <i>Astronomy and Astrophysics</i> , 2020, 642, A90.	5.1	13
34	Infrared properties of the SDSS-maxBCG galaxy clusters. <i>Astronomy and Astrophysics</i> , 2010, 512, A20.	5.1	12
35	Expected properties of the two-point autocorrelation function of the intergalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2970-2984.	4.4	12
36	The kinematic Sunyaev-Zel'dovich effect of the large-scale structure $\hat{\Lambda}(l)$: dependence on neutrino mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx170.	4.4	12

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37	AMICO galaxy clusters in KiDS-DR3. <i>Astronomy and Astrophysics</i> , 2021, 653, A19.	5.1	12
38	Constraints on $\hat{\sigma}_m$ and $\hat{\sigma}_8$ from the potential-based cluster temperature function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1687-1696.	4.4	11
39	Nature versus nurture: relic nature and environment of the most massive passive galaxies at $z \lesssim 0.5$. <i>Astronomy and Astrophysics</i> , 2020, 638, L11.	5.1	11
40	Euclid Preparation. XIV. The Complete Calibration of the Color-Redshift Relation (C3R2) Survey: Data Release 3. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 9.	7.7	11
41	The kinematic Sunyaev-Zeldovich effect of the large-scale structure (II): the effect of modified gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2497-2506.	4.4	9
42	Euclid: the selection of quiescent and star-forming galaxies using observed colours. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2337-2354.	4.4	9
43	CoMaLit VI. Intrinsic scatter in stacked relations. The weak lensing AMICO galaxy clusters in KiDS-DR3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 894-905.	4.4	8
44	AMICO galaxy clusters in KiDS-DR3: galaxy population properties and their redshift dependence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4303-4315.	4.4	7
45	AMICO galaxy clusters in KiDS-DR3: measurement of the halo bias and power spectrum normalization from a stacked weak lensing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1484-1501.	4.4	7
46	ORIGIN: metal creation and evolution from the cosmic dawn. <i>Experimental Astronomy</i> , 2012, 34, 519-549.	3.7	6
47	ESTREMO/WFXRT: Extreme physics in the Transient and Evolving Cosmos. , 2006, , .		5
48	EDGE: explorer of diffuse emission and gamma-ray burst explosions. , 2007, , .		5
49	AMICO galaxy clusters in KiDS-DR3: Evolution of the luminosity function between $z = 0.1$ and $z = 0.8$. <i>Astronomy and Astrophysics</i> , 2021, 645, A9.	5.1	5
50	Simulating the impact of dust cooling on the statistical properties of the intra-cluster medium. <i>Advances in Space Research</i> , 2009, 44, 440-445.	2.6	4
51	Spectral imaging of the thermal Sunyaev-Zeldovich effect in X-COP galaxy clusters: method and validation. <i>Astronomy and Astrophysics</i> , 2019, 630, A121.	5.1	4
52	Searching for Galaxy Clusters in the VST-KiDS Survey. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2016, , 189-195.	0.3	2
53	Finding and characterising WHIM structures using the luminosity density method. <i>Proceedings of the International Astronomical Union</i> , 2014, 11, 368-371.	0.0	0