

Lorenzo Lovisari

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,299
citations

218677

26
h-index

214800

47
g-index

58
all docs

58
docs citations

58
times ranked

2113
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling properties of a complete X-ray selected galaxy group sample. <i>Astronomy and Astrophysics</i> , 2015, 573, A118.	5.1	167
2	The cluster gas mass fraction as a cosmological probe: a revised study. <i>Astronomy and Astrophysics</i> , 2009, 501, 61-73.	5.1	148
3	RELICS: Reionization Lensing Cluster Survey. <i>Astrophysical Journal</i> , 2019, 884, 85.	4.5	141
4	Mass Profiles of Galaxy Clusters from X-ray Analysis. <i>Space Science Reviews</i> , 2013, 177, 119-154.	8.1	132
5	XMM-Newton and Chandra cross-calibration using HIFLUGCS galaxy clusters. <i>Astronomy and Astrophysics</i> , 2015, 575, A30.	5.1	128
6	Outskirts of Galaxy Clusters. <i>Space Science Reviews</i> , 2013, 177, 195-245.	8.1	114
7	Probing cosmic isotropy with a new X-ray galaxy cluster sample through the $L_X \propto T$ scaling relation. <i>Astronomy and Astrophysics</i> , 2020, 636, A15.	5.1	107
8	Scaling Relations for Galaxy Clusters: Properties and Evolution. <i>Space Science Reviews</i> , 2013, 177, 247-282.	8.1	98
9	X-Ray Morphological Analysis of the Planck ESZ Clusters. <i>Astrophysical Journal</i> , 2017, 846, 51.	4.5	82
10	The Fraction of Cool-core Clusters in X-Ray versus SZ Samples Using Chandra Observations. <i>Astrophysical Journal</i> , 2017, 843, 76.	4.5	80
11	Gas sloshing, cold fronts, Kelvin-Helmholtz instabilities and the merger history of the cluster of galaxies Abell 496. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 3632-3648.	4.4	66
12	Cosmological implications of the anisotropy of ten galaxy cluster scaling relations. <i>Astronomy and Astrophysics</i> , 2021, 649, A151.	5.1	60
13	RELICS: The Reionization Lensing Cluster Survey and the Brightest High-z Galaxies. <i>Astrophysical Journal</i> , 2020, 889, 189.	4.5	58
14	RELICS: Strong Lens Models for Five Galaxy Clusters from the Reionization Lensing Cluster Survey. <i>Astrophysical Journal</i> , 2018, 859, 159.	4.5	55
15	The radio relic in Abell 2256: overall spectrum and implications for electron acceleration. <i>Astronomy and Astrophysics</i> , 2015, 575, A45.	5.1	50
16	Abundance and temperature distributions in the hot intra-cluster gas of Abell 4059. <i>Astronomy and Astrophysics</i> , 2015, 575, A37.	5.1	45
17	Correlation between the Total Gravitating Mass of Groups and Clusters and the Supermassive Black Hole Mass of Brightest Galaxies. <i>Astrophysical Journal</i> , 2018, 852, 131.	4.5	44
18	X-Ray Scaling Relations for a Representative Sample of Planck-selected Clusters Observed with XMM-Newton. <i>Astrophysical Journal</i> , 2020, 892, 102.	4.5	41

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19	Scaling Properties of Galaxy Groups. <i>Universe</i> , 2021, 7, 139.	2.5	41
20	Constraining galaxy cluster temperatures and redshifts with eROSITA survey data. <i>Astronomy and Astrophysics</i> , 2014, 567, A65.	5.1	40
21	The non-uniformity of galaxy cluster metallicity profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 540-557.	4.4	40
22	CHEERS: The chemical evolution RGS sample. <i>Astronomy and Astrophysics</i> , 2017, 607, A98.	5.1	39
23	The Cluster HEritage project with <i>XMM-Newton</i> : Mass Assembly and Thermodynamics at the Endpoint of structure formation. <i>Astronomy and Astrophysics</i> , 2021, 650, A104.	5.1	36
24	iPTF15eqv: Multiwavelength Expos�� of a Peculiar Calcium-rich Transient. <i>Astrophysical Journal</i> , 2017, 846, 50.	4.5	30
25	Inhomogeneous metal distribution in the intracluster medium. <i>Astronomy and Astrophysics</i> , 2011, 528, A60.	5.1	29
26	RELICS: Strong Lensing Analysis of MACS J0417.5��1154 and Predictions for Observing the Magnified High-redshift Universe with JWST. <i>Astrophysical Journal</i> , 2019, 873, 96.	4.5	27
27	RELICS: Strong-lensing Analysis of the Massive Clusters MACS J0308.9+2645 and PLCK G171.9��40.7. <i>Astrophysical Journal</i> , 2018, 858, 42.	4.5	26
28	Extending the $L_X \propto T$ relation from clusters to groups. <i>Astronomy and Astrophysics</i> , 2015, 573, A75.	5.1	26
29	RELICS: Strong Lensing Analysis of the Galaxy Clusters Abell S295, Abell 697, MACS J0025.4-1222, and MACS J0159.8-0849. <i>Astrophysical Journal</i> , 2018, 863, 145.	4.5	24
30	Using X-Ray Morphological Parameters to Strengthen Galaxy Cluster Mass Estimates via Machine Learning. <i>Astrophysical Journal</i> , 2019, 884, 33.	4.5	24
31	RELICS: A Strong Lens Model for SPT-CLJ0615��5746, a $z=0.972$ Cluster. <i>Astrophysical Journal</i> , 2018, 863, 154.	4.5	23
32	X-ray analysis of the galaxy group UGC 03957 beyond $R < 200$ with <i>Suzaku</i> . <i>Astronomy and Astrophysics</i> , 2016, 592, A37.	5.1	22
33	The discovery of radio halos in the frontier fields clusters Abell S1063 and Abell 370. <i>Astronomy and Astrophysics</i> , 2020, 636, A3.	5.1	22
34	The Most Massive galaxy Clusters (M2C) across cosmic time: link between radial total mass distribution and dynamical state. <i>Astronomy and Astrophysics</i> , 2019, 628, A86.	5.1	20
35	The galaxy group NGC 507: Newly detected AGN remnant plasma transported by sloshing. <i>Astronomy and Astrophysics</i> , 2022, 661, A92.	5.1	20
36	RELICS: High-resolution Constraints on the Inner Mass Distribution of the $z=0.83$ Merging Cluster RXJ0152.7-1357 from Strong Lensing. <i>Astrophysical Journal</i> , 2019, 874, 132.	4.5	18

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37	The intracluster magnetic field in the double relic galaxy cluster Abell 2345. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2518-2535.	4.4	18
38	Extended X-Ray Study of M49: The Frontier of the Virgo Cluster. <i>Astronomical Journal</i> , 2019, 158, 6.	4.7	17
39	Expanding the Sample: The Relationship between the Black Hole Mass of BCGs and the Total Mass of Galaxy Clusters. <i>Astrophysical Journal</i> , 2019, 875, 141.	4.5	17
40	Metallicity map of the galaxy cluster A3667. <i>Astronomy and Astrophysics</i> , 2009, 508, 191-200.	5.1	17
41	Comparing different mass estimators for a large subsample of the <i>Planck</i>-ESZ clusters. <i>Astronomy and Astrophysics</i> , 2020, 644, A78.	5.1	15
42	Projection effects in galaxy cluster samples: insights from X-ray redshifts. <i>Astronomy and Astrophysics</i> , 2019, 626, A48.	5.1	11
43	Chandra Observations of the Planck Early Sunyaevâ€Zeldovich Sample: A Reexamination of Masses and Mass Proxies. <i>Astrophysical Journal</i> , 2021, 914, 58.	4.5	11
44	Stormy Weather in 3C 196.1: Nuclear Outbursts and Merger Events Shape the Environment of the Hybrid Radio Galaxy 3C 196.1. <i>Astrophysical Journal</i> , 2018, 867, 35.	4.5	10
45	RELICS: A Very Large ($\hat{I}_{_E \sim 4 \times 10^3$) Cluster Lensâ€RXC J0032.1+1808. <i>Astrophysical Journal</i> , 2020, 898, 6.	4.5	10
46	The thermalization of massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5214-5223.	4.4	9
47	The Unusually Weak and Exceptionally Steep Radio Relic in A2108. <i>Astrophysical Journal</i> , 2022, 925, 91.	4.5	9
48	A metal-rich elongated structure in the core of the group NGC 4325. <i>Astronomy and Astrophysics</i> , 2015, 573, A66.	5.1	7
49	Metal distribution in the intracluster medium: a comprehensive numerical study of twelve galaxy clusters. <i>Astronomy and Astrophysics</i> , 2014, 569, A31.	5.1	5
50	The Double Galaxy Cluster A2465. III. X-Ray and Weak-lensing Observations^{âˆ—}. <i>Astrophysical Journal</i> , 2017, 844, 67.	4.5	4
51	Detection of a Star-forming Galaxy in the Center of a Low-mass Galaxy Cluster. <i>Astrophysical Journal</i> , 2018, 869, 105.	4.5	3
52	XMM-Newton X-ray and HST weak gravitational lensing study of the extremely X-ray luminous galaxy cluster Cl J120958.9+495352 ($z = 0.902$). <i>Astronomy and Astrophysics</i> , 2018, 610, A71.	5.1	3
53	The Physical Properties of the Groups of Galaxies. <i>Universe</i> , 2021, 7, 254.	2.5	3
54	From universal profiles to universal scaling laws in X-ray galaxy clusters. <i>Astronomy and Astrophysics</i> , 2020, 644, A111.	5.1	3

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55	Scaling relations with a complete sample of galaxy groups. <i>Astronomische Nachrichten</i> , 2013, 334, 369-372.	1.2	2
56	On the dynamical and morphological state of the CHEX-MATE clusters. <i>EPJ Web of Conferences</i> , 2022, 257, 00007.	0.3	1
57	Detection of a Superluminous Spiral Galaxy in the Heart of a Massive Galaxy Cluster. <i>Astrophysical Journal</i> , 2022, 930, 138.	4.5	1
58	METALS IN THE ICM: WITNESSES OF CLUSTER FORMATION AND EVOLUTION. <i>Acta Polytechnica</i> , 2013, 53, 579-582.	0.6	0