Matteo Murgia

List of Publications by Year
in descending order

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Version: 2024-02-01

75 papers	4,090 citations	117625 34 h-index	110387 64 g-index
75 all docs	75 docs citations	75 times ranked	2400 citing authors

#	Article	IF	Citations
1	Clusters of galaxies: observational properties of the diffuse radio emission. Astronomy and Astrophysics Review, 2012, 20, 1.	25.5	489
2	The Coma cluster magnetic field from Faraday rotation measures. Astronomy and Astrophysics, 2010, 513, A30.	5.1	313
3	Magnetic fields and Faraday rotation in clusters of galaxies. Astronomy and Astrophysics, 2004, 424, 429-446.	5.1	187
4	Radio and X-ray diffuse emission in six clusters of galaxies. Astronomy and Astrophysics, 2001, 376, 803-819.	5.1	185
5	Four Extreme Relic Radio Sources in Clusters of Galaxies. Astronomical Journal, 2001, 122, 1172-1193.	4.7	168
6	Radio halos in nearby (z < 0.4) clusters of galaxies. Astronomy and Astrophysics, 2009, 507, 1257-1270.	5.1	129
7	A2255: The first detection of filamentary polarized emission in a radio halo. Astronomy and Astrophysics, 2005, 430, L5-L8.	5.1	118
8	Dying radio galaxies in clusters. Astronomy and Astrophysics, 2011, 526, A148.	5.1	117
9	The intracluster magnetic field power spectrum in Abell 2255. Astronomy and Astrophysics, 2006, 460, 425-438.	5.1	108
10	Revealing the magnetic field in a distant galaxy cluster: discovery of the complex radio emission from MACSâ€‰J0717.5 +3745. Astronomy and Astrophysics, 2009, 503, 707-720.	5.1	107
11	Comparative analysis of the diffuse radio emission in the galaxy clusters A1835, A2029, and Ophiuchus. Astronomy and Astrophysics, 2009, 499, 679-695.	5.1	103
12	Spectral Ages of CSOs and CSS Sources. Publications of the Astronomical Society of Australia, 2003, 20, 19-24.	3.4	101
13	A radio ridge connecting two galaxy clusters in a filament of the cosmic web. Science, 2019, 364, 981-984.	12.6	96
14	In search of dying radio sources in the local universe. Astronomy and Astrophysics, 2007, 470, 875-888.	5.1	95
15	The intracluster magnetic field power spectrum in Abell 2382. Astronomy and Astrophysics, 2008, 483, 699-713.	5.1	88
16	Structures of the magnetoionic media around the Fanaroff-Riley Class I radio galaxies 3Câ€ƒ31 and Hydra A. Monthly Notices of the Royal Astronomical Society, 2008, 391, 521-549.	4.4	86
17	MÂ87 at metre wavelengths: the LOFAR picture. Astronomy and Astrophysics, 2012, 547, A56.	5.1	84
18	A COMBINED LOW-RADIO FREQUENCY/X-RAY STUDY OF GALAXY GROUPS. I. GIANT METREWAVE RADIO TELESCOPE OBSERVATIONS AT 235 MHz AND 610 MHz. Astrophysical Journal, 2011, 732, 95.	4.5	74

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19	Low-frequency study of two clusters of galaxies: A2744 and A2219. Astronomy and Astrophysics, 2007, 467, 943-954.	5.1	71
20	Rotation measures of radio sources in hot galaxy clusters. Astronomy and Astrophysics, 2010, 522, A105.	5.1	68
21	Search and modelling of remnant radio galaxies in the LOFAR Lockman Hole field. Astronomy and Astrophysics, 2017, 606, A98.	5.1	61
22	The intracluster magnetic field power spectrum in A2199. Astronomy and Astrophysics, 2012, 540, A38.	5.1	57
23	LOFAR discovery of a 700-kpc remnant radio galaxy at low redshift. Astronomy and Astrophysics, 2016, 585, A29.	5.1	53
24	The Sardinia Radio Telescope. Astronomy and Astrophysics, 2017, 608, A40.	5.1	52
25	Sardinia Radio Telescope observations of Abell 194. Astronomy and Astrophysics, 2017, 603, A122.	5.1	51
26	The intracluster magnetic field power spectrum in Abell 665. Astronomy and Astrophysics, 2010, 514, A71.	5.1	50
27	A double radio halo in the close pair of galaxy clusters Abell 399 and Abell 401. Astronomy and Astrophysics, 2010, 509, A86.	5.1	50
28	A multi-frequency study of the radio galaxy NGC 326. Astronomy and Astrophysics, 2001, 380, 102-116.	5.1	39
29	Observations of a nearby filament of galaxy clusters with the Sardinia Radio Telescope. Monthly Notices of the Royal Astronomical Society, 2018, 479, 776-806.	4.4	38
30	NGC 326: X-shaped no more. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3416-3422.	4.4	38
31	Radio morphology and spectral analysis of cD galaxies in rich and poor galaxy clusters. Astronomy and Astrophysics, 2007, 476, 99-119.	5.1	37
32	Structure of the magnetoionic medium around the Fanaroff-Riley Class I radio galaxy 3Câ€‰449. Astronomy and Astrophysics, 2010, 514, A50.	5.1	37
33	The diffuse radio filament in the merging system ZwClâ€‰2341.1+0000. Astronomy and Astrophysics, 2010, 511, L5.	5.1	36
34	GMRT observations of the Ophiuchus galaxy cluster. Astronomy and Astrophysics, 2010, 514, A76.	5.1	35
35	A giant radio halo in the low luminosity X-ray cluster Abell 523. Astronomy and Astrophysics, 2011, 530, L5.	5.1	34
36	Collimated synchrotron threads linking the radio lobes of ESO 137-006. Astronomy and Astrophysics, 2020, 636, L1.	5.1	33

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37	A multiwavelength view of the galaxy cluster Abell 523 and its peculiar diffuse radio source. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2829-2847.	4.4	32
38	The flickering nuclear activity of Fornax A. Astronomy and Astrophysics, 2020, 634, A9.	5.1	32
39	Radiative age mapping of the remnant radio galaxy B2 0924+30: the LOFAR perspective. Astronomy and Astrophysics, 2017, 600, A65.	5.1	31
40	Polarization of cluster radio halos with upcoming radio interferometers. Astronomy and Astrophysics, 2013, 554, A102.	5.1	30
41	Spectral index image of the radio halo in the cluster Abell 520, which hosts the famous bow shock. Astronomy and Astrophysics, 2014, 561, A52.	5.1	30
42	Duty cycle of the radio galaxy B2 0258+35. Astronomy and Astrophysics, 2018, 618, A45.	5.1	30
43	Low-frequency study of two giant radio galaxies: 3C 35 and 3C 223. Astronomy and Astrophysics, 2010, 515, A50.	5.1	26
44	COMPARISONS OF COSMOLOGICAL MAGNETOHYDRODYNAMIC GALAXY CLUSTER SIMULATIONS TO RADIO OBSERVATIONS. Astrophysical Journal, 2012, 759, 40.	4.5	26
45	The peculiar radio galaxy 4C 35.06: a case for recurrent AGN activity?. Astronomy and Astrophysics, 2015, 579, A27.	5.1	25
46	Sardinia Radio Telescope wide-band spectral-polarimetric observations of the galaxy cluster 3CÂ129. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3516-3532.	4.4	22
47	Observations of the galaxy cluster CIZA J2242.8+5301 with the Sardinia Radio Telescope. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3605-3623.	4.4	21
48	Detection of diffuse radio emission in the galaxy clusters A800, A910, A1550, and CL 1446+26. Astronomy and Astrophysics, 2012, 545, A74.	5.1	21
49	Magnetic Fields in Galaxy Clusters and in the Large-Scale Structure of the Universe. Galaxies, 2018, 6, 142.	3.0	21
50	SArdinia Roach2-based Digital Architecture for Radio Astronomy (SARDARA). Journal of Astronomical Instrumentation, 2018, 07, .	1.5	20
51	A joint XMM-NuSTAR observation of the galaxy cluster Abell 523: Constraints on inverse Compton emission. Astronomy and Astrophysics, 2019, 628, A83.	5.1	20
52	The galaxy group NGC 507: Newly detected AGN remnant plasma transported by sloshing. Astronomy and Astrophysics, 2022, 661, A92.	5.1	20
53	A perfect power-law spectrum even at the highest frequencies: The Toothbrush relic. Astronomy and Astrophysics, 2020, 642, L13.	5.1	19
54	Status of the Sardinia Radio Telescope project. Proceedings of SPIE, 2008, , .	0.8	17

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55	Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31. Astrophysical Journal Letters, 2019, 877, L31.	8.3	17
56	Studying the late evolution of a radio-loud AGN in a galaxy group with LOFAR. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5023-5035.	4.4	15
57	A high-resolution view of the filament of gas between AbellÂ399 and AbellÂ401 from the Atacama Cosmology Telescope and MUSTANG-2. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3335-3355.	4.4	14
58	The diffuse radio emission around NGC 5580 and NGC 5588. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1542-1550.	4.4	13
59	Spectropolarimetric observations of the CIZA J2242.8+5301 northern radio relic: no evidence of high-frequency steepening. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1628-1637.	4.4	13
60	Chandraobservations of dying radio sources in galaxy clusters. Astronomy and Astrophysics, 2012, 548, A75.	5.1	12
61	The nature of the giant diffuse non-thermal source in the A3411â€“A3412 complex. Monthly Notices of the Royal Astronomical Society, 2013, 435, 518-523.	4.4	12
62	Rotation measure synthesis applied to synthetic SKA images of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4841-4857.	4.4	10
63	Diffuse radio sources in a statistically complete sample of high-redshift galaxy clusters. Astronomy and Astrophysics, 2020, 640, A108.	5.1	10
64	Simulations of the polarized radio sky and predictions on the confusion limit in polarization for future radio surveys. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5285-5293.	4.4	8
65	The high-frequency upgrade of the Sardinia Radio Telescope. , 2021, , .		7
66	Study of the thermal and nonthermal emission components in M31: the Sardinia Radio Telescope view at 6.6 GHz. Astronomy and Astrophysics, 0, , .	5.1	6
67	Searching for anomalous microwave emission in nearby galaxies. Astronomy and Astrophysics, 2022, 658, L8.	5.1	5
68	Spectral study of the diffuse synchrotron source in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	4
69	Simulations of the Polarized Sky for the SKA: How to Constrain Intracluster Magnetic Fields. Galaxies, 2018, 6, 133.	3.0	3
70	Feasibility Study of a W-Band Multibeam Heterodyne Receiver for the Gregorian Focus of the Sardinia Radio Telescope. IEEE Access, 2022, 10, 26369-26403.	4.2	3
71	A depolarizing Hâ€I tidal tail in the western lobe of Fornax A. Astronomy and Astrophysics, 2022, 660, A48.	5.1	3
72	Sardinia Radio Telescope observations of Local Group dwarf galaxies â€“ I. The cases of NGCâ€‰6822, ICâ€‰1613, and WLM. Monthly Notices of the Royal Astronomical Society, 2020, 492, 45-57.	4.4	2

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73	Puzzling large-scale polarization in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4969-4981.	4.4	2
74	Techinques and algorithmic advances in the SKA era. Proceedings of the International Astronomical Union, 2018, 14, 323-327.	0.0	0
75	The mm-to-cm SED of spiral galaxies. EPJ Web of Conferences, 2022, 257, 00005.	0.3	0