Matteo Murgia

List of Publications by Year
in descending order

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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	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
2	The mm-to-cm SED of spiral galaxies. EPJ Web of Conferences, 2022, 257, 00005.	0.3	0
3	Searching for anomalous microwave emission in nearby galaxies. Astronomy and Astrophysics, 2022, 658, L8.	5.1	5
4	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
5	The galaxy group NGC 507: Newly detected AGN remnant plasma transported by sloshing. Astronomy and Astrophysics, 2022, 661, A92.	5.1	20
6	A depolarizing Hâ€¯I tidal tail in the western lobe of Fornax A. Astronomy and Astrophysics, 2022, 660, A48.	5.1	3
7	Puzzling large-scale polarization in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4969-4981.	4.4	2
8	The high-frequency upgrade of the Sardinia Radio Telescope. , 2021, , .		7
9	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
10	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
11	The flickering nuclear activity of Fornax A. Astronomy and Astrophysics, 2020, 634, A9.	5.1	32
12	Collimated synchrotron threads linking the radio lobes of ESO 137-006. Astronomy and Astrophysics, 2020, 636, L1.	5.1	33
13	Diffuse radio sources in a statistically complete sample of high-redshift galaxy clusters. Astronomy and Astrophysics, 2020, 640, A108.	5.1	10
14	A perfect power-law spectrum even at the highest frequencies: The Toothbrush relic. Astronomy and Astrophysics, 2020, 642, L13.	5.1	19
15	NGC 326: X-shaped no more. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3416-3422.	4.4	38
16	Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31. Astrophysical Journal Letters, 2019, 877, L31.	8.3	17
17	A radio ridge connecting two galaxy clusters in a filament of the cosmic web. Science, 2019, 364, 981-984.	12.6	96
18	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

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19	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
20	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
21	Duty cycle of the radio galaxy B2 0258+35. Astronomy and Astrophysics, 2018, 618, A45.	5.1	30
22	Simulations of the Polarized Sky for the SKA: How to Constrain Intracluster Magnetic Fields. Galaxies, 2018, 6, 133.	3.0	3
23	Techinques and algorithmic advances in the SKA era. Proceedings of the International Astronomical Union, 2018, 14, 323-327.	0.0	0
24	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
25	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
26	SArdinia Roach2-based Digital Architecture for Radio Astronomy (SARDARA). Journal of Astronomical Instrumentation, 2018, 07, .	1.5	20
27	Magnetic Fields in Galaxy Clusters and in the Large-Scale Structure of the Universe. Galaxies, 2018, 6, 142.	3.0	21
28	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
29	Radiative age mapping of the remnant radio galaxy B2 0924+30: the LOFAR perspective. Astronomy and Astrophysics, 2017, 600, A65.	5.1	31
30	Search and modelling of remnant radio galaxies in the LOFAR Lockman Hole field. Astronomy and Astrophysics, 2017, 606, A98.	5.1	61
31	The Sardinia Radio Telescope. Astronomy and Astrophysics, 2017, 608, A40.	5.1	52
32	Sardinia Radio Telescope observations of Abell 194. Astronomy and Astrophysics, 2017, 603, A122.	5.1	51
33	LOFAR discovery of a 700-kpc remnant radio galaxy at low redshift. Astronomy and Astrophysics, 2016, 585, A29.	5.1	53
34	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
35	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
36	The peculiar radio galaxy 4C 35.06: a case for recurrent AGN activity?. Astronomy and Astrophysics, 2015, 579, A27.	5.1	25

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37	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
38	The diffuse radio emission around NGC 5580 and NGC 5588. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1542-1550.	4.4	13
39	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
40	Polarization of cluster radio halos with upcoming radio interferometers. Astronomy and Astrophysics, 2013, 554, A102.	5.1	30
41	COMPARISONS OF COSMOLOGICAL MAGNETOHYDRODYNAMIC GALAXY CLUSTER SIMULATIONS TO RADIO OBSERVATIONS. Astrophysical Journal, 2012, 759, 40.	4.5	26
42	Clusters of galaxies: observational properties of the diffuse radio emission. Astronomy and Astrophysics Review, 2012, 20, 1.	25.5	489
43	MÂ87 at metre wavelengths: the LOFAR picture. Astronomy and Astrophysics, 2012, 547, A56.	5.1	84
44	Chandraobservations of dying radio sources in galaxy clusters. Astronomy and Astrophysics, 2012, 548, A75.	5.1	12
45	The intracluster magnetic field power spectrum in A2199. Astronomy and Astrophysics, 2012, 540, A38.	5.1	57
46	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
47	Dying radio galaxies in clusters. Astronomy and Astrophysics, 2011, 526, A148.	5.1	117
48	A giant radio halo in the low luminosity X-ray cluster Abell 523. Astronomy and Astrophysics, 2011, 530, L5.	5.1	34
49	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
50	The Coma cluster magnetic field from Faraday rotation measures. Astronomy and Astrophysics, 2010, 513, A30.	5.1	313
51	Low-frequency study of two giant radio galaxies: 3C 35 and 3C 223. Astronomy and Astrophysics, 2010, 515, A50.	5.1	26
52	GMRT observations of the Ophiuchus galaxy cluster. Astronomy and Astrophysics, 2010, 514, A76.	5.1	35
53	The diffuse radio filament in the merging system ZwCl‰2341.1+0000. Astronomy and Astrophysics, 2010, 511, L5.	5.1	36
54	Structure of the magnetoionic medium around the Fanaroff-Riley Class I radio galaxy 3C‰449. Astronomy and Astrophysics, 2010, 514, A50.	5.1	37

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55	The intracluster magnetic field power spectrum in Abell 665. Astronomy and Astrophysics, 2010, 514, A71.	5.1	50
56	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
57	Rotation measures of radio sources in hot galaxy clusters. Astronomy and Astrophysics, 2010, 522, A105.	5.1	68
58	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
59	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
60	Radio halos in nearby (z < 0.4) clusters of galaxies. Astronomy and Astrophysics, 2009, 507, 1257-1270.	5.1	129
61	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
62	Status of the Sardinia Radio Telescope project. Proceedings of SPIE, 2008, , .	0.8	17
63	The intracluster magnetic field power spectrum in Abell 2382. Astronomy and Astrophysics, 2008, 483, 699-713.	5.1	88
64	Radio morphology and spectral analysis of cD galaxies in rich and poor galaxy clusters. Astronomy and Astrophysics, 2007, 476, 99-119.	5.1	37
65	Low-frequency study of two clusters of galaxies: A2744 and A2219. Astronomy and Astrophysics, 2007, 467, 943-954.	5.1	71
66	In search of dying radio sources in the local universe. Astronomy and Astrophysics, 2007, 470, 875-888.	5.1	95
67	The intracluster magnetic field power spectrum in Abell 2255. Astronomy and Astrophysics, 2006, 460, 425-438.	5.1	108
68	A2255: The first detection of filamentary polarized emission in a radio halo. Astronomy and Astrophysics, 2005, 430, L5-L8.	5.1	118
69	Magnetic fields and Faraday rotation in clusters of galaxies. Astronomy and Astrophysics, 2004, 424, 429-446.	5.1	187
70	Spectral Ages of CSOs and CSS Sources. Publications of the Astronomical Society of Australia, 2003, 20, 19-24.	3.4	101
71	Radio and X-ray diffuse emission in six clusters of galaxies. Astronomy and Astrophysics, 2001, 376, 803-819.	5.1	185
72	A multi-frequency study of the radio galaxy NGC 326. Astronomy and Astrophysics, 2001, 380, 102-116.	5.1	39

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73	Four Extreme Relic Radio Sources in Clusters of Galaxies. Astronomical Journal, 2001, 122, 1172-1193.	4.7	168
74	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
75	Spectral study of the diffuse synchrotron source in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	4