Luigina Feretti

List of Publications by Year
in descending order

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138 papers	8,480 citations	46918 47 h-index	46693 89 g-index
141 all docs	141 docs citations	141 times ranked	2817 citing authors

#	Article	IF	Citations
1	Clusters of galaxies: observational properties of the diffuse radio emission. Astronomy and Astrophysics Review, 2012, 20, 1.	9.1	489
2	MAGNETIC FIELDS IN CLUSTERS OF GALAXIES. International Journal of Modern Physics D, 2004, 13, 1549-1594.	0.9	406
3	Particle reacceleration in the Coma cluster: radio properties and hard X-ray emission. Monthly Notices of the Royal Astronomical Society, 2001, 320, 365-378.	1.6	374
4	The Coma cluster magnetic field from Faraday rotation measures. Astronomy and Astrophysics, 2010, 513, A30.	2.1	313
5	Diffuse Radio Emission from Galaxy Clusters. Space Science Reviews, 2019, 215, 1.	3.7	308
6	Radio halo and relic candidates from the NRAO VLA Sky Survey. New Astronomy, 1999, 4, 141-155.	0.8	253
7	VLBI Observations of a Complete Sample of Radio Galaxies: 10 Years Later. Astrophysical Journal, 2001, 552, 508-526.	1.6	222
8	Hard X-Ray Radiation in the Coma Cluster Spectrum. Astrophysical Journal, 1999, 513, L21-L24.	1.6	215
9	The halo radio source Coma C and the origin of halo sources. Astrophysical Journal, 1993, 406, 399.	1.6	206
10	Magnetic fields and Faraday rotation in clusters of galaxies. Astronomy and Astrophysics, 2004, 424, 429-446.	2.1	187
11	Radio and X-ray diffuse emission in six clusters of galaxies. Astronomy and Astrophysics, 2001, 376, 803-819.	2.1	185
12	Halo and relic sources in clusters of galaxies. New Astronomy, 2000, 5, 335-347.	0.8	180
13	Parsecâ€Scale Properties of Markarian 501. Astrophysical Journal, 2004, 600, 127-140.	1.6	180
14	A comparison of radio and X-ray morphologies of four clusters of galaxies containing radio halos. Astronomy and Astrophysics, 2001, 369, 441-449.	2.1	166
15	ChandraTemperature Maps for Galaxy Clusters with Radio Halos. Astrophysical Journal, 2004, 605, 695-708.	1.6	150
16	A systematic study of X-ray substructure of galaxy clusters detected in the ROSAT All-Sky Survey. Astronomy and Astrophysics, 2001, 378, 408-427.	2.1	146
17	Deep images of cluster radio halos. Astronomy and Astrophysics, 2003, 400, 465-476.	2.1	136
18	Radio halos in nearby (z < 0.4) clusters of galaxies. Astronomy and Astrophysics, 2009, 507, 1257-1270.	2.1	129

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19	The giant radio halo in Abell 2163. Astronomy and Astrophysics, 2001, 373, 106-112.	2.1	129
20	A2255: The first detection of filamentary polarized emission in a radio halo. Astronomy and Astrophysics, 2005, 430, L5-L8.	2.1	118
21	Correlation of the magnetic field and the intra-cluster gas density in galaxy clusters. Astronomy and Astrophysics, 2001, 378, 777-786.	2.1	113
22	The intracluster magnetic field power spectrum in Abell 2255. Astronomy and Astrophysics, 2006, 460, 425-438.	2.1	108
23	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.	2.1	107
24	Comparative analysis of the diffuse radio emission in the galaxy clusters A1835, A2029, and Ophiuchus. Astronomy and Astrophysics, 2009, 499, 679-695.	2.1	103
25	Confirmation of Nonthermal Hard X-Ray Excess in the Coma Cluster from Two Epoch Observations. Astrophysical Journal, 2004, 602, L73-L76.	1.6	100
26	The origin and evolution of cosmic magnetism. New Astronomy Reviews, 2004, 48, 1003-1012.	5.2	99
27	Double relics in Abell 2345 and Abell 1240. Astronomy and Astrophysics, 2009, 494, 429-442.	2.1	99
28	Another shock for the Bullet cluster, and the source of seed electrons for radio relics. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1486-1494.	1.6	96
29	A radio ridge connecting two galaxy clusters in a filament of the cosmic web. Science, 2019, 364, 981-984.	6.0	96
30	Hard X-Ray Emission from the Galaxy Cluster A2256. Astrophysical Journal, 2000, 534, L7-L10.	1.6	94
31	A new sample of large angular size radio galaxies. Astronomy and Astrophysics, 2001, 370, 409-425.	2.1	79
32	Spectral index maps of the radio halos in Abell 665 and Abell 2163. Astronomy and Astrophysics, 2004, 423, 111-119.	2.1	78
33	A search for diffuse radio emission in the relaxed, cool-core galaxy clusters A1068, A1413, A1650, A1835, A2029, and Ophiuchus. Astronomy and Astrophysics, 2009, 499, 371-383.	2.1	74
34	Measurements and simulation of Faraday rotation across the Coma radio relic. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3208-3226.	1.6	73
35	Low-frequency study of two clusters of galaxies: A2744 and A2219. Astronomy and Astrophysics, 2007, 467, 943-954.	2.1	71
36	Deep radio observations of the radio halo of the bullet cluster 1E 0657-55.8. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2901-2915.	1.6	69

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37	HSTand Merlin Observations of 3C 264â€"A Laboratory for Jet Physics and Unified Schemes. Astrophysical Journal, 1997, 483, 178-193.	1.6	69
38	Rotation measures of radio sources in hot galaxy clusters. Astronomy and Astrophysics, 2010, 522, A105.	2.1	68
39	Particle acceleration in cooling flow clusters of galaxies: TheÂcase of Abell 2626. Astronomy and Astrophysics, 2004, 417, 1-11.	2.1	65
40	Discovery of diffuse radio emission at the center of the most X-ray-luminous cluster RX J1347.5-1145. Astronomy and Astrophysics, 2007, 470, L25-L28.	2.1	59
41	VLBI observations of a complete sample of radio galaxies. 4: The radio galaxies NGC 2484, 3C 109, and 3C 382. Astrophysical Journal, 1994, 435, 116.	1.6	58
42	The intracluster magnetic field power spectrum in A2199. Astronomy and Astrophysics, 2012, 540, A38.	2.1	57
43	The Bologna Complete Sample of Nearby Radio Sources. Astrophysical Journal, 2005, 618, 635-648.	1.6	53
44	Sardinia Radio Telescope observations of Abell 194. Astronomy and Astrophysics, 2017, 603, A122.	2.1	51
45	The intracluster magnetic field power spectrum in Abell 665. Astronomy and Astrophysics, 2010, 514, A71.	2.1	50
46	A double radio halo in the close pair of galaxy clusters Abell 399 and Abell 401. Astronomy and Astrophysics, 2010, 509, A86.	2.1	50
47	Fractional polarization as a probe of magnetic fields in the intra-cluster medium. Astronomy and Astrophysics, 2011, 530, A24.	2.1	50
48	The radio and X-ray properties of Abell 2319. New Astronomy, 1997, 2, 501-515.	0.8	47
49	B2 1144+35: A Giant Lowâ€Power Radio Galaxy with Superluminal Motion. Astrophysical Journal, 1999, 522, 101-112.	1.6	46
50	Multifrequency VLA observations of the FR I radio galaxy 3C 31: morphology, spectrum and magnetic field. Monthly Notices of the Royal Astronomical Society, 2008, 386, 657-672.	1.6	44
51	Diffuse Radio Sources and Cluster Mergers. , 2002, , 197-227.		44
52	VLBI observations of a complete sample of radio galaxies. II - The parsec-scale structure of NGC 315. Astrophysical Journal, 1993, 408, 81.	1.6	44
53	Internal dynamics of the radio-halo cluster A2219: A multi-wavelength analysis. Astronomy and Astrophysics, 2004, 416, 839-851.	2.1	42
54	VLBI Observations of a Complete Sample of Radio Galaxies. VIII. Proper Motion in 3C 338. Astrophysical Journal, 1998, 493, 632-640.	1.6	42

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55	Magnetism Science with the Square Kilometre Array. Galaxies, 2020, 8, 53.	1.1	41
56	Hard X-Ray Emission from the Galaxy Cluster A3667. Astrophysical Journal, 2001, 552, L97-L100.	1.6	40
57	Multifrequency VLA radio observations of the X-ray cavity cluster of galaxies RBS797: evidence of differently oriented jets. Astronomy and Astrophysics, 2006, 448, 853-860.	2.1	40
58	A STRONG MERGER SHOCK IN ABELL 665. Astrophysical Journal Letters, 2016, 820, L20.	3.0	39
59	Observations of a nearby filament of galaxy clusters with the Sardinia Radio Telescope. Monthly Notices of the Royal Astronomical Society, 2018, 479, 776-806.	1.6	38
60	Radio galaxies and magnetic fields in A514. Astronomy and Astrophysics, 2001, 379, 807-822.	2.1	37
61	VLBI Observations of a Complete Sample of Radio Galaxies. VII. Study of the FR I Sources 3C 31, 4C 35.03, and 3C 264. Astrophysical Journal, 1997, 474, 179-187.	1.6	36
62	A Parsecâ€Scale Accelerating Radio Jet in the Giant Radio Galaxy NGC 315. Astrophysical Journal, 1999, 519, 108-116.	1.6	36
63	Diffuse radio emission in a REFLEX cluster. Astronomy and Astrophysics, 2005, 444, 157-164.	2.1	36
64	The diffuse radio filament in the merging system ZwClâ€‰2341.1+0000. Astronomy and Astrophysics, 2010, 511, L5.	2.1	36
65	High-sensitivity radio observations of the Coma cluster of galaxies. Astronomical Journal, 1990, 99, 1381.	1.9	35
66	The Coma Cluster at LOw Frequency ARray Frequencies. I. Insights into Particle Acceleration Mechanisms in the Radio Bridge. Astrophysical Journal, 2021, 907, 32.	1.6	34
67	A giant radio halo in the low luminosity X-ray cluster Abell 523. Astronomy and Astrophysics, 2011, 530, L5.	2.1	34
68	Clusters of Galaxies in the Radio: Relativistic Plasma and ICM/Radio Galaxy Interaction Processes. , 2008, , 143-176.		33
69	VLBI observations of a complete sample of radio galaxies. I - Snapshot data. Astrophysical Journal, 1990, 358, 159.	1.6	33
70	VLBI Observations of a Complete Sample of Radio Galaxies. VI. The Two FR I Radio Galaxies B2 0836+29 and 3C 465. Astrophysical Journal, 1995, 454, 735.	1.6	32
71	RADIO RELICS IN CLUSTERS OF GALAXIES. Journal of the Korean Astronomical Society, 2004, 37, 323-328.	1.5	32
72	Non-thermal emission from the intracluster medium. Advances in Space Research, 2005, 36, 729-737.	1.2	31

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73	Polarization of cluster radio halos with upcoming radio interferometers. Astronomy and Astrophysics, 2013, 554, A102.	2.1	30
74	Spectral index image of the radio halo in the cluster Abell 520, which hosts the famous bow shock. Astronomy and Astrophysics, 2014, 561, A52.	2.1	30
75	Hard X-ray and radio observations of Abell 754. Astronomy and Astrophysics, 2003, 398, 441-446.	2.1	30
76	VLBI Observations of a Complete Sample of Radio Galaxies. V. 3C 346 and 4C 31.04: Two Unusual Compact Steep Spectrum Sources. Astrophysical Journal, 1995, 452, 605.	1.6	30
77	The Coma Cluster at LOFAR Frequencies. II. The Halo, Relic, and a New Accretion Relic. Astrophysical Journal, 2022, 933, 218.	1.6	29
78	Using rotation measure grids to detect cosmological magnetic fields: A Bayesian approach. Astronomy and Astrophysics, 2016, 591, A13.	2.1	28
79	A new sample of large angular size radio galaxies. Astronomy and Astrophysics, 2004, 421, 899-911.	2.1	28
80	Spectral energy distributions of FR I nuclei and the FR I/BL Lac unifying model. Monthly Notices of the Royal Astronomical Society, 2000, 318, 493-500.	1.6	26
81	Low-frequency study of two giant radio galaxies: 3C 35 and 3C 223. Astronomy and Astrophysics, 2010, 515, A50.	2.1	26
82	COMPARISONS OF COSMOLOGICAL MAGNETOHYDRODYNAMIC GALAXY CLUSTER SIMULATIONS TO RADIO OBSERVATIONS. Astrophysical Journal, 2012, 759, 40.	1.6	26
83	Detection of diffuse radio emission at large distance from the center of the galaxy cluster Aâ€‰2255. Astronomy and Astrophysics, 2008, 481, L91-L94.	2.1	26
84	Diffuse Cluster Radio Sources. Symposium - International Astronomical Union, 1996, 175, 333-338.	0.1	25
85	Diffuse radio emission from the intracluster medium. New Astronomy Reviews, 2004, 48, 1137-1144.	5.2	24
86	XMM-Newton observations of the Coma cluster relicÂ1253+275. Astronomy and Astrophysics, 2006, 450, L21-L24.	2.1	24
87	The Radioâ€Optical Jet in NGC 3862 from Parsec to Subkiloparsec Scales. Astrophysical Journal, 1999, 513, 197-206.	1.6	23
88	Discovery of diffuse radio emission in the galaxy cluster A1689. Astronomy and Astrophysics, 2011, 535, A82.	2.1	22
89	Diffuse Cluster Radio Sources. , 1996, , 333-338.		22
90	A new sample of large angular size radio galaxies. Astronomy and Astrophysics, 2001, 378, 826-836.	2.1	22

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91	A multi-wavelength test of the FRÂIâ€“BLÂLac unifying model. Astronomy and Astrophysics, 2003, 403, 889-899.	2.1	22
92	New radio halos and relics in clusters of galaxies. Astronomische Nachrichten, 2006, 327, 563-564.	0.6	21
93	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.	1.6	21
94	Detection of diffuse radio emission in the galaxy clusters A800, A910, A1550, and CL 1446+26. Astronomy and Astrophysics, 2012, 545, A74.	2.1	21
95	Magnetic Fields in Galaxy Clusters and in the Large-Scale Structure of the Universe. Galaxies, 2018, 6, 142.	1.1	21
96	Diffuse radio sources in the cluster of galaxies Abell 548b. Monthly Notices of the Royal Astronomical Society, 2006, 368, 544-552.	1.6	20
97	A joint XMM-NuSTAR observation of the galaxy cluster Abell 523: Constraints on inverse Compton emission. Astronomy and Astrophysics, 2019, 628, A83.	2.1	20
98	VLBI observations of a complete sample of radio galaxies. III - The two-sided milliarcsecond structure of 3C 338. Astrophysical Journal, 1993, 408, 446.	1.6	20
99	A Spectral Index Map from VSOP Observations of Markarian 501. Publication of the Astronomical Society of Japan, 2000, 52, 1015-1019.	1.0	19
100	A candidate supermassive binary black hole system in the brightest cluster galaxy of RBS 797. Astronomy and Astrophysics, 2013, 557, L14.	2.1	18
101	The inner kiloparsec of the jet in 3Câ€‰264. Astronomy and Astrophysics, 2004, 415, 905-913.	2.1	18
102	Particle injection and reacceleration in clusters of galaxies and the EUV excess: the case of Coma. New Astronomy, 2001, 6, 1-15.	0.8	17
103	Status of the Sardinia Radio Telescope project. Proceedings of SPIE, 2008, , .	0.8	17
104	Narrow head-tail radio galaxies at very high resolution. Astronomy and Astrophysics, 2017, 608, A58.	2.1	16
105	The Deepest Chandra View of RBS 797: Evidence for Two Pairs of Equidistant X-ray Cavities. Astrophysical Journal Letters, 2021, 923, L25.	3.0	15
106	Radio Galaxies and Their Environment. , 2002, , 163-195.		14
107	PROPERTIES AND SPECTRAL BEHAVIOUR OF CLUSTER RADIO HALOS. Journal of the Korean Astronomical Society, 2004, 37, 315-322.	1.5	14
108	Magnetic fields in clusters of galaxies. New Astronomy Reviews, 2004, 48, 1145-1150.	5.2	13

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109	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.	1.6	12
110	New JVLA observations at 3 GHz and 5.5 GHz of the â€œKiteâ€•radio source in Abell 2626. Astronomy and Astrophysics, 2017, 604, A21.	2.1	12
111	Very-long-baseline radio interferometry observations of low power radio galaxies.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11356-11359.	3.3	11
112	Resolving the Steep-Spectrum Emission in the Central Radio Source in ZwCl 0735.7+7421. Astrophysical Journal, 2005, 620, L5-L8.	1.6	11
113	ATCA observations of the galaxy cluster AbellÂ3921. Astronomy and Astrophysics, 2006, 457, 21-34.	2.1	10
114	Rotation measure synthesis applied to synthetic SKA images of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4841-4857.	1.6	10
115	Diffuse radio sources in a statistically complete sample of high-redshift galaxy clusters. Astronomy and Astrophysics, 2020, 640, A108.	2.1	10
116	The dynamical state of A548 from XMM-Newton data: X-ray and radio connection. Astronomy and Astrophysics, 2008, 484, 621-630.	2.1	10
117	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.	1.6	8
118	Observational Properties of Diffuse Halos in Clusters. Symposium - International Astronomical Union, 2002, 199, 133-140.	0.1	7
119	Sunyaevâ€“Zeldovich effects, freeâ€“free emission, and imprints on the cosmic microwave background. New Astronomy Reviews, 2004, 48, 1107-1117.	5.2	7
120	Space VLBI Observations of Mkn 501. Advances in Space Research, 2000, 26, 693-696.	1.2	4
121	Spectral energy distributions of five FR I radio galaxies. New Astronomy Reviews, 2002, 46, 335-337.	5.2	4
122	Spectral study of the diffuse synchrotron source in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	4
123	Magnetic fields in galaxy clusters in the SKA era. Journal of Physics: Conference Series, 2017, 841, 012005.	0.3	3
124	Simulations of the Polarized Sky for the SKA: How to Constrain Intracluster Magnetic Fields. Galaxies, 2018, 6, 133.	1.1	3
125	Spectral Index of the Filaments in the Abell 523 Radio Halo. Galaxies, 2021, 9, 112.	1.1	3
126	Extragalactic sources with asymmetric radio structure II. further observations of the quasar B2 1320 + 299. Journal of Astrophysics and Astronomy, 1986, 7, 119-129.	0.4	2

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127	Relativistic Jets in Low Power Radio Galaxies. International Astronomical Union Colloquium, 1998, 164, 85-86.	0.1	2
128	EVN Observations of GRS 1915+105. Astrophysics and Space Science, 2001, 276, 111-112.	0.5	2
129	Radio Halos and Relics in Clusters of Galaxies and Detection Statistics. Symposium - International Astronomical Union, 2002, 199, 149-150.	0.1	2
130	Restarting activity in radio galaxies. New Astronomy Reviews, 2002, 46, 89-93.	5.2	2
131	Puzzling large-scale polarization in the galaxy cluster Abell 523. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4969-4981.	1.6	2
132	EVN and MERLIN observations of the FR 1 radio galaxy 3C 264. New Astronomy Reviews, 1997, 41, 241-245.	0.3	1
133	Spectral index maps of radio halos and relics. Astronomische Nachrichten, 2006, 327, 565-566.	0.6	1
134	Cosmic rays in magnetized intracluster plasma. Proceedings of the International Astronomical Union, 2009, 5, 459-460.	0.0	1
135	Relativistic plasma and ICM/radio source interaction. Proceedings of the International Astronomical Union, 2010, 6, 340-347.	0.0	1
136	1144+35: A giant radio galaxy with superluminal motion. New Astronomy Reviews, 1999, 43, 651-655.	5.2	0
137	Structure of the magneto-ionic media around the FR Class I radio galaxy 3C 449. , 2010, , .		0
138	Revealing Cosmic Magnetism with the Square Kilometre Array. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 323-323.	0.3	0