

Federica Govoni

List of Publications by Year in descending order

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100
papers

5,836
citations

87723

38
h-index

71532

76
g-index

100
all docs

100
docs citations

100
times ranked

2373
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-resolution view of the filament of gas between Abell 399 and Abell 401 from the Atacama Cosmology Telescope and MUSTANG-2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3335-3355.	1.6	14
2	The mm-to-cm SED of spiral galaxies. <i>EPJ Web of Conferences</i> , 2022, 257, 00005.	0.1	0
3	Searching for anomalous microwave emission in nearby galaxies. <i>Astronomy and Astrophysics</i> , 2022, 658, L8.	2.1	5
4	A depolarizing $H\alpha$ tidal tail in the western lobe of Fornax A. <i>Astronomy and Astrophysics</i> , 2022, 660, A48.	2.1	3
5	The high-frequency upgrade of the Sardinia Radio Telescope. , 2021, , .		7
6	Spectral Index of the Filaments in the Abell 523 Radio Halo. <i>Galaxies</i> , 2021, 9, 112.	1.1	3
7	Spectropolarimetric observations of the CIZA J2242.8+5301 northern radio relic: no evidence of high-frequency steepening. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1628-1637.	1.6	13
8	Magnetism Science with the Square Kilometre Array. <i>Galaxies</i> , 2020, 8, 53.	1.1	41
9	The flickering nuclear activity of Fornax A. <i>Astronomy and Astrophysics</i> , 2020, 634, A9.	2.1	32
10	Collimated synchrotron threads linking the radio lobes of ESO 137-006. <i>Astronomy and Astrophysics</i> , 2020, 636, L1.	2.1	33
11	Diffuse radio sources in a statistically complete sample of high-redshift galaxy clusters. <i>Astronomy and Astrophysics</i> , 2020, 640, A108.	2.1	10
12	A perfect power-law spectrum even at the highest frequencies: The Toothbrush relic. <i>Astronomy and Astrophysics</i> , 2020, 642, L13.	2.1	19
13	Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31. <i>Astrophysical Journal Letters</i> , 2019, 877, L31.	3.0	17
14	A radio ridge connecting two galaxy clusters in a filament of the cosmic web. <i>Science</i> , 2019, 364, 981-984.	6.0	96
15	Simulations of the polarized radio sky and predictions on the confusion limit in polarization for future radio surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5285-5293.	1.6	8
16	A joint XMM- <i>NuSTAR</i> observation of the galaxy cluster Abell 523: Constraints on inverse Compton emission. <i>Astronomy and Astrophysics</i> , 2019, 628, A83.	2.1	20
17	Rotation measure synthesis applied to synthetic SKA images of galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4841-4857.	1.6	10
18	The recurrent nuclear activity of Fornax A and its interaction with the cold gas. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 141-146.	0.0	1

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19	Duty cycle of the radio galaxy B2 0258+35. <i>Astronomy and Astrophysics</i> , 2018, 618, A45.	2.1	30
20	Simulations of the Polarized Sky for the SKA: How to Constrain Intracluster Magnetic Fields. <i>Galaxies</i> , 2018, 6, 133.	1.1	3
21	New Insights in Extragalactic Magnetic Fields. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 287-290.	0.0	1
22	Techniques and algorithmic advances in the SKA era. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 323-327.	0.0	0
23	Observations of a nearby filament of galaxy clusters with the Sardinia Radio Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 776-806.	1.6	38
24	Sardinia Roach2-based Digital Architecture for Radio Astronomy (SARDARA). <i>Journal of Astronomical Instrumentation</i> , 2018, 07, .	0.8	20
25	Magnetic Fields in Galaxy Clusters and in the Large-Scale Structure of the Universe. <i>Galaxies</i> , 2018, 6, 142.	1.1	21
26	Observations of the galaxy cluster CIZA J2242.8+5301 with the Sardinia Radio Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 3605-3623.	1.6	21
27	The Sardinia Radio Telescope. <i>Astronomy and Astrophysics</i> , 2017, 608, A40.	2.1	52
28	Magnetic fields in galaxy clusters in the SKA era. <i>Journal of Physics: Conference Series</i> , 2017, 841, 012005.	0.3	3
29	Narrow head-tail radio galaxies at very high resolution. <i>Astronomy and Astrophysics</i> , 2017, 608, A58.	2.1	16
30	Sardinia Radio Telescope observations of Abell 194. <i>Astronomy and Astrophysics</i> , 2017, 603, A122.	2.1	51
31	Sardinia Radio Telescope wide-band spectral-polarimetric observations of the galaxy cluster 3C129. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3516-3532.	1.6	22
32	A multiwavelength view of the galaxy cluster Abell 523 and its peculiar diffuse radio source. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2829-2847.	1.6	32
33	A STRONG MERGER SHOCK IN ABELL 665. <i>Astrophysical Journal Letters</i> , 2016, 820, L20.	3.0	39
34	Combining survey data with single-dish observations. , 2016, , .		0
35	Magnetism and continuum surveys working together. , 2016, , .		0
36	Sardinia Array Demonstrator: Instrument overview and status. , 2015, , .		4

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37	Spectral index image of the radio halo in the cluster Abell 520, which hosts the famous bow shock. <i>Astronomy and Astrophysics</i> , 2014, 561, A52.	2.1	30
38	Sardinia aperture array demonstrator. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
39	The nature of the giant diffuse non-thermal source in the A3411â€“A3412 complex. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 518-523.	1.6	12
40	Measurements and simulation of Faraday rotation across the Coma radio relic. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 3208-3226.	1.6	73
41	Polarization of cluster radio halos with upcoming radio interferometers. <i>Astronomy and Astrophysics</i> , 2013, 554, A102.	2.1	30
42	Observations of magnetic fields in intracluster medium. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 404-405.	0.0	0
43	COMPARISONS OF COSMOLOGICAL MAGNETOHYDRODYNAMIC GALAXY CLUSTER SIMULATIONS TO RADIO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 759, 40.	1.6	26
44	Clusters of galaxies: observational properties of the diffuse radio emission. <i>Astronomy and Astrophysics Review</i> , 2012, 20, 1.	9.1	489
45	<i>Chandra</i> observations of dying radio sources in galaxy clusters. <i>Astronomy and Astrophysics</i> , 2012, 548, A75.	2.1	12
46	The intracluster magnetic field power spectrum in A2199. <i>Astronomy and Astrophysics</i> , 2012, 540, A38.	2.1	57
47	Detection of diffuse radio emission in the galaxy clusters A800, A910, A1550, and CL 1446+26. <i>Astronomy and Astrophysics</i> , 2012, 545, A74.	2.1	21
48	Dying radio galaxies in clusters. <i>Astronomy and Astrophysics</i> , 2011, 526, A148.	2.1	117
49	Discovery of the correspondence between intra-cluster radio emission and a high pressure region detected through the Sunyaev-Zelâ€™dovich effect. <i>Astronomy and Astrophysics</i> , 2011, 534, L12.	2.1	22
50	Discovery of diffuse radio emission in the galaxy cluster A1689. <i>Astronomy and Astrophysics</i> , 2011, 535, A82.	2.1	22
51	The large-scale diffuse radio emission in A781. <i>Astronomy and Astrophysics</i> , 2011, 529, A69.	2.1	19
52	Detection of continuum radio emission associated with Geminga. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 416, L45-L49.	1.2	6
53	Fractional polarization as a probe of magnetic fields in the intra-cluster medium. <i>Astronomy and Astrophysics</i> , 2011, 530, A24.	2.1	50
54	A giant radio halo in the low luminosity X-ray cluster Abell 523. <i>Astronomy and Astrophysics</i> , 2011, 530, L5.	2.1	34

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55	Relativistic plasma and ICM/radio source interaction. Proceedings of the International Astronomical Union, 2010, 6, 340-347.	0.0	1
56	The Coma cluster magnetic field from Faraday rotation measures. Astronomy and Astrophysics, 2010, 513, A30.	2.1	313
57	Low-frequency study of two giant radio galaxies: 3C 35 and 3C 223. Astronomy and Astrophysics, 2010, 515, A50.	2.1	26
58	GMRT observations of the Ophiuchus galaxy cluster. Astronomy and Astrophysics, 2010, 514, A76.	2.1	35
59	The diffuse radio filament in the merging system ZwClâ€‰2341.1+0000. Astronomy and Astrophysics, 2010, 511, L5.	2.1	36
60	Structure of the magnetoionic medium around the Fanaroff-Riley Class I radio galaxy 3Câ€‰449. Astronomy and Astrophysics, 2010, 514, A50.	2.1	37
61	Structure of the magneto-ionic media around the FR Class I radio galaxy 3C 449. , 2010, , .		0
62	The intracluster magnetic field power spectrum in Abell 665. Astronomy and Astrophysics, 2010, 514, A71.	2.1	50
63	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
64	Rotation measures of radio sources in hot galaxy clusters. Astronomy and Astrophysics, 2010, 522, A105.	2.1	68
65	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
66	Double relics in Abell 2345 and Abell 1240. Astronomy and Astrophysics, 2009, 494, 429-442.	2.1	99
67	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
68	Revealing the magnetic field in a distant galaxy cluster: discovery of the complex radio emission from MACSâ€‰0717.5+3745. Astronomy and Astrophysics, 2009, 503, 707-720.	2.1	107
69	Radio halos in nearby ($z < 0.4$) clusters of galaxies. Astronomy and Astrophysics, 2009, 507, 1257-1270.	2.1	129
70	Observations of Extended Radio Emission in Clusters. Space Science Reviews, 2008, 134, 93-118.	3.7	276
71	The intracluster magnetic field power spectrum in Abell 2382. Astronomy and Astrophysics, 2008, 483, 699-713.	2.1	88
72	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

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73	The dynamical state of A548 from XMM-Newton data: X-ray and radio connection. <i>Astronomy and Astrophysics</i> , 2008, 484, 621-630.	2.1	10
74	Low-frequency study of two clusters of galaxies: A2744 and A2219. <i>Astronomy and Astrophysics</i> , 2007, 467, 943-954.	2.1	71
75	In search of dying radio sources in the local universe. <i>Astronomy and Astrophysics</i> , 2007, 470, 875-888.	2.1	95
76	New scaling relations in cluster radio haloes and the re-acceleration model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 1565-1574.	1.6	85
77	The intracluster magnetic field power spectrum in Abell 2255. <i>Astronomy and Astrophysics</i> , 2006, 460, 425-438.	2.1	108
78	Diffuse radio sources in the cluster of galaxies Abell 548b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 368, 544-552.	1.6	20
79	Observations of magnetic fields in regular and irregular clusters. <i>Astronomische Nachrichten</i> , 2006, 327, 539-544.	0.6	15
80	New radio halos and relics in clusters of galaxies. <i>Astronomische Nachrichten</i> , 2006, 327, 563-564.	0.6	21
81	Spectral index maps of radio halos and relics. <i>Astronomische Nachrichten</i> , 2006, 327, 565-566.	0.6	1
82	Bow Shock and Radio Halo in the Merging Cluster A520. <i>Astrophysical Journal</i> , 2005, 627, 733-738.	1.6	254
83	Diffuse radio emission in a REFLEX cluster. <i>Astronomy and Astrophysics</i> , 2005, 444, 157-164.	2.1	36
84	A2255: The first detection of filamentary polarized emission in a radio halo. <i>Astronomy and Astrophysics</i> , 2005, 430, L5-L8.	2.1	118
85	Magnetic fields and Faraday rotation in clusters of galaxies. <i>Astronomy and Astrophysics</i> , 2004, 424, 429-446.	2.1	187
86	MAGNETIC FIELDS IN CLUSTERS OF GALAXIES. <i>International Journal of Modern Physics D</i> , 2004, 13, 1549-1594.	0.9	406
87	Chandra Temperature Maps for Galaxy Clusters with Radio Halos. <i>Astrophysical Journal</i> , 2004, 605, 695-708.	1.6	150
88	The properties of low redshift radiogalaxies: the fundamental plane and central black hole mass. <i>New Astronomy Reviews</i> , 2003, 47, 179-182.	5.2	1
89	The black hole mass of low redshift radiogalaxies. <i>Astronomy and Astrophysics</i> , 2003, 399, 869-878.	2.1	104
90	Hard X-ray and radio observations of Abell 754. <i>Astronomy and Astrophysics</i> , 2003, 398, 441-446.	2.1	30

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91	Deep images of cluster radio halos. <i>Astronomy and Astrophysics</i> , 2003, 400, 465-476.	2.1	136
92	Optical properties of low z radio galaxies. <i>New Astronomy Reviews</i> , 2002, 46, 353-356.	5.2	1
93	The fundamental plane of radio galaxies. <i>Astronomy and Astrophysics</i> , 2001, 380, 471-477.	2.1	45
94	Radio galaxies and magnetic fields in A514. <i>Astronomy and Astrophysics</i> , 2001, 379, 807-822.	2.1	37
95	Magnetic fields in the 3C 129 cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 2-10.	1.6	72
96	A comparison of radio and X-ray morphologies of four clusters of galaxies containing radio halos. <i>Astronomy and Astrophysics</i> , 2001, 369, 441-449.	2.1	166
97	The giant radio halo in Abell 2163. <i>Astronomy and Astrophysics</i> , 2001, 373, 106-112.	2.1	129
98	Radio and X-ray diffuse emission in six clusters of galaxies. <i>Astronomy and Astrophysics</i> , 2001, 376, 803-819.	2.1	185
99	Correlation of the magnetic field and the intra-cluster gas density in galaxy clusters. <i>Astronomy and Astrophysics</i> , 2001, 378, 777-786.	2.1	113
100	Optical surface photometry of radio galaxies. <i>Astronomy and Astrophysics</i> , 2000, 143, 369-390.	2.1	13