

Marcus BrÃ¼ggen

List of Publications by Year in descending order

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Version: 2024-02-01

178
papers

11,202
citations

36303

51
h-index

34986

98
g-index

178
all docs

178
docs citations

178
times ranked

5794
citing authors

#	ARTICLE	IF	CITATIONS
1	LOFAR: The LOw-Frequency ARray. <i>Astronomy and Astrophysics</i> , 2013, 556, A2.	5.1	1,755
2	The eROSITA X-ray telescope on SRG. <i>Astronomy and Astrophysics</i> , 2021, 647, A1.	5.1	426
3	The LOFAR Two-metre Sky Survey. <i>Astronomy and Astrophysics</i> , 2017, 598, A104.	5.1	400
4	The LOFAR Two-metre Sky Survey. <i>Astronomy and Astrophysics</i> , 2019, 622, A1.	5.1	369
5	Particle Acceleration on Megaparsec Scales in a Merging Galaxy Cluster. <i>Science</i> , 2010, 330, 347-349.	12.6	312
6	Diffuse Radio Emission from Galaxy Clusters. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	308
7	The role of black holes in galaxy formation and evolution. <i>Nature</i> , 2009, 460, 213-219.	27.8	295
8	Hot bubbles from active galactic nuclei as a heat source in cooling-flow clusters. <i>Nature</i> , 2002, 418, 301-303.	27.8	206
9	LOFAR FACET CALIBRATION. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 2.	7.7	184
10	LOFAR 150-MHz observations of the Boötes field: catalogue and source counts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2385-2412.	4.4	174
11	The LOFAR Two-metre Sky Survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A1.	5.1	169
12	THE LAUNCHING OF COLD CLOUDS BY GALAXY OUTFLOWS. I. HYDRODYNAMIC INTERACTIONS WITH RADIATIVE COOLING. <i>Astrophysical Journal</i> , 2015, 805, 158.	4.5	167
13	Radio signature of cosmological structure formation shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 375, 77-91.	4.4	158
14	The LOFAR Two-meter Sky Survey: Deep Fields Data Release 1. <i>Astronomy and Astrophysics</i> , 2021, 648, A1.	5.1	131
15	LOFAR, VLA, AND CHANDRA OBSERVATIONS OF THE TOOTHBRUSH GALAXY CLUSTER. <i>Astrophysical Journal</i> , 2016, 818, 204.	4.5	130
16	Systematic effects in LOFAR data: A unified calibration strategy. <i>Astronomy and Astrophysics</i> , 2019, 622, A5.	5.1	122
17	Discovery of radio haloes and double relics in distant MACS galaxy clusters: clues to the efficiency of particle acceleration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 40-56.	4.4	118
18	The "toothbrush-relic" evidence for a coherent linear 2-Mpc scale shock wave in a massive merging galaxy cluster?. <i>Astronomy and Astrophysics</i> , 2012, 546, A124.	5.1	111

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19	The LoTSS view of radio AGN in the local Universe. <i>Astronomy and Astrophysics</i> , 2019, 622, A17.	5.1	110
20	Magnetic Fields, Relativistic Particles, and Shock Waves in Cluster Outskirts. <i>Space Science Reviews</i> , 2012, 166, 187-213.	8.1	108
21	LOFAR/H-ATLAS: a deep low-frequency survey of the <i>Herschel</i> -ATLAS North Galactic Pole field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1910-1936.	4.4	106
22	Simulations of Magnetic Fields in Filaments. <i>Astrophysical Journal</i> , 2005, 631, L21-L24.	4.5	102
23	THE LAUNCHING OF COLD CLOUDS BY GALAXY OUTFLOWS. II. THE ROLE OF THERMAL CONDUCTION. <i>Astrophysical Journal</i> , 2016, 822, 31.	4.5	99
24	Calibrating high-precision Faraday rotation measurements for LOFAR and the next generation of low-frequency radio telescopes. <i>Astronomy and Astrophysics</i> , 2013, 552, A58.	5.1	98
25	On the amplification of magnetic fields in cosmic filaments and galaxy clusters... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 3706-3722.	4.4	97
26	The LOFAR window on star-forming galaxies and AGNs – curved radio SEDs and IR-radio correlation at $z < 2.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3468-3488.	4.4	96
27	A radio ridge connecting two galaxy clusters in a filament of the cosmic web. <i>Science</i> , 2019, 364, 981-984.	12.6	96
28	Resolved magnetic dynamo action in the simulated intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1672-1687.	4.4	93
29	Magnetic Field Amplification in Galaxy Clusters and Its Simulation. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
30	Using double radio relics to constrain galaxy cluster mergers: a model of double radio relics in CIZA J2242.8+5301. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 230-243.	4.4	87
31	Turbulence and vorticity in Galaxy clusters generated by structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 210-230.	4.4	86
32	M87 at metre wavelengths: the LOFAR picture. <i>Astronomy and Astrophysics</i> , 2012, 547, A56.	5.1	84
33	Simulations of extragalactic magnetic fields and of their observables. <i>Classical and Quantum Gravity</i> , 2017, 34, 234001.	4.0	82
34	A new double radio relic in PSZ1 G096.89+24.17 and a radio relic mass-luminosity relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3130-3138.	4.4	81
35	Do radio relics challenge diffusive shock acceleration?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2291-2296.	4.4	80
36	Challenges to our understanding of radio relics: X-ray observations of the Toothbrush cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 812-824.	4.4	79

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37	Measurements and simulation of Faraday rotation across the Coma radio relic. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3208-3226.	4.4	73
38	LOFAR observations of galaxy clusters in HETDEX. Astronomy and Astrophysics, 2021, 651, A115.	5.1	71
39	Unveiling radio halos in galaxy clusters in the LOFAR era. Astronomy and Astrophysics, 2010, 509, A68.	5.1	69
40	Gentle reenergization of electrons in merging galaxy clusters. Science Advances, 2017, 3, e1701634.	10.3	65
41	The LOFAR LBA Sky Survey. Astronomy and Astrophysics, 2021, 648, A104.	5.1	64
42	Deep VLA Observations of the Cluster 1RXS J0603.3+4214 in the Frequency Range of 1–2 GHz. Astrophysical Journal, 2018, 852, 65.	4.5	63
43	Forecasts for the detection of the magnetised cosmic web from cosmological simulations. Astronomy and Astrophysics, 2015, 580, A119.	5.1	61
44	A giant radio halo in the cool core cluster CL1821+643. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 444, L44-L48.	3.3	60
45	Diffuse radio emission in the merging cluster MACS J0717.5+3745: the discovery of the most powerful radio halo. Astronomy and Astrophysics, 2009, 505, 991-997.	5.1	59
46	The LOFAR Two-meter Sky Survey: Deep Fields Data Release 1. Astronomy and Astrophysics, 2021, 648, A3.	5.1	57
47	Deep LOFAR observations of the merging galaxy cluster CIZA J2242.8+5301. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1107-1125.	4.4	56
48	Deep Very Large Array Observations of the Merging Cluster CIZA J2242.8+5301: Continuum and Spectral Imaging. Astrophysical Journal, 2018, 865, 24.	4.5	56
49	Why are central radio relics so rare?. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1868-1873.	4.4	54
50	Testing cosmic ray acceleration with radio relics: a high-resolution study using MHD and tracers. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4448-4462.	4.4	54
51	The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A2.	5.1	54
52	The Beautiful Mess in Abell 2255. Astrophysical Journal, 2020, 897, 93.	4.5	54
53	LOFAR imaging of Cygnus A – direct detection of a turnover in the hotspot radio spectra. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3143-3150.	4.4	53
54	LOFAR discovery of an ultra-steep radio halo and giant head-tail radio galaxy in Abell 1132. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3536-3546.	4.4	52

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55	Evolution of X-ray cavities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 2210-2220.	4.4	51
56	Multiple density discontinuities in the merging galaxy cluster CIZA J2242.8+5301. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 3416-3425.	4.4	51
57	First X-ray evidence for a shock at the Coma relic. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 1701-1708.	4.4	50
58	<i>MC²</i> : CONSTRAINING THE DARK MATTER DISTRIBUTION OF THE VIOLENT MERGING GALAXY CLUSTER CIZA J2242.8+5301 BY PIERCING THROUGH THE MILKY WAY. <i>Astrophysical Journal</i> , 2015, 802, 46.	4.5	49
59	The Galactic Faraday rotation sky 2020. <i>Astronomy and Astrophysics</i> , 2022, 657, A43.	5.1	49
60	The MeerKAT Galaxy Cluster Legacy Survey. <i>Astronomy and Astrophysics</i> , 2022, 657, A56.	5.1	49
61	Magnetic field amplification by shocks in galaxy clusters: application to radio relics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2781-2788.	4.4	48
62	A LOFAR study of non-merging massive galaxy clusters. <i>Astronomy and Astrophysics</i> , 2019, 622, A24.	5.1	48
63	<i>Suzaku</i> X-ray study of the double radio relic galaxy cluster CIZA J2242.8+5301. <i>Astronomy and Astrophysics</i> , 2015, 582, A87.	5.1	48
64	Turbulent pressure support and hydrostatic mass bias in the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 864-885.	4.4	47
65	A plethora of diffuse steep spectrum radio sources in Abell 2034 revealed by LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 277-290.	4.4	46
66	Chandra and JVLA Observations of HST Frontier Fields Cluster MACS J0717.5+3745. <i>Astrophysical Journal</i> , 2017, 835, 197.	4.5	46
67	Simulations of ultra-high energy cosmic rays in the local Universe and the origin of cosmic magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2519-2529.	4.4	45
68	LOFAR discovery of a double radio halo system in Abell 1758 and radio/X-ray study of the cluster pair. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 885-898.	4.4	45
69	Dynamical evolution of magnetic fields in the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 623-638.	4.4	45
70	New constraints on the magnetization of the cosmic web using LOFAR Faraday rotation observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2607-2619.	4.4	44
71	The Abell 3391/95 galaxy cluster system. <i>Astronomy and Astrophysics</i> , 2021, 647, A2.	5.1	43
72	VLA Radio Observations of the HST Frontier Fields Cluster Abell 2744: The Discovery of New Radio Relics. <i>Astrophysical Journal</i> , 2017, 845, 81.	4.5	41

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73	On the absence of radio haloes in clusters with double relics. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3465-3475.	4.4	41
74	LOFAR discovery of radio emission in MACSJ0717.5+3745. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2927-2938.	4.4	39
75	The interplay between radio galaxies and cluster environment. Monthly Notices of the Royal Astronomical Society, 2007, 379, 260-274.	4.4	38
76	Propagation of ultrahigh energy cosmic rays in extragalactic magnetic fields: a view from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3660-3671.	4.4	38
77	Radio observations of the merging galaxy cluster Abell 520. Astronomy and Astrophysics, 2019, 622, A20.	5.1	37
78	Merging Cluster Collaboration: A Panchromatic Atlas of Radio Relic Mergers. Astrophysical Journal, 2019, 882, 69.	4.5	37
79	Subarcsecond international LOFAR radio images of the M82 nucleus at 118 MHz and 154 MHz. Astronomy and Astrophysics, 2015, 574, A114.	5.1	36
80	MC ² : GALAXY IMAGING AND REDSHIFT ANALYSIS OF THE MERGING CLUSTER CIZA J2242.8+5301. Astrophysical Journal, 2015, 805, 143.	4.5	35
81	First evidence of diffuse ultra-steep-spectrum radio emission surrounding the cool core of a cluster. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2234-2242.	4.4	35
82	The Coma Cluster at Low Frequency ARray Frequencies. I. Insights into Particle Acceleration Mechanisms in the Radio Bridge. Astrophysical Journal, 2021, 907, 32.	4.5	34
83	Revived fossil plasma sources in galaxy clusters. Astronomy and Astrophysics, 2020, 634, A4.	5.1	33
84	LOFAR observations of X-ray cavity systems. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2613-2635.	4.4	32
85	Detecting shocked intergalactic gas with X-ray and radio observations. Astronomy and Astrophysics, 2019, 627, A5.	5.1	32
86	Polarization of radio relics in galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3987-4006.	4.4	31
87	Fast magnetic field amplification in distant galaxy clusters. Nature Astronomy, 2021, 5, 268-275.	10.1	31
88	Diffuse steep-spectrum sources from the 74 MHz VLSS survey. Astronomy and Astrophysics, 2011, 527, A114.	5.1	30
89	Wide-field LOFAR imaging of the field around the double-double radio galaxy B1834+620. Astronomy and Astrophysics, 2015, 584, A112.	5.1	30
90	Probing the origin of extragalactic magnetic fields with Fast Radio Bursts. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3907-3915.	4.4	30

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91	Merging Cluster Collaboration: Optical and Spectroscopic Survey of a Radio-selected Sample of 29 Merging Galaxy Clusters. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 39.	7.7	30
92	The <i>Planck</i> clusters in the LOFAR sky. <i>Astronomy and Astrophysics</i> , 2022, 660, A78.	5.1	30
93	LOFAR LOW-BAND ANTENNA OBSERVATIONS OF THE 3C 295 AND BOA-TES FIELDS: SOURCE COUNTS AND ULTRA-STEEP SPECTRUM SOURCES. <i>Astrophysical Journal</i> , 2014, 793, 82.	4.5	29
94	Square Kilometre Array Science Data Challenge 1: analysis and results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3821-3837.	4.4	29
95	The Coma Cluster at LOFAR Frequencies. II. The Halo, Relic, and a New Accretion Relic. <i>Astrophysical Journal</i> , 2022, 933, 218.	4.5	29
96	Physical insights from the spectrum of the radio halo in MACS J0717.5+3745. <i>Astronomy and Astrophysics</i> , 2021, 646, A135.	5.1	28
97	Morphology of radio relics – I. What causes the substructure of synchrotron emission?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 795-816.	4.4	28
98	The Launching of Cold Clouds by Galaxy Outflows. III. The Influence of Magnetic Fields. <i>Astrophysical Journal</i> , 2020, 892, 59.	4.5	28
99	Evolution of vorticity and enstrophy in the intracluster medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3212-3225.	4.4	27
100	Fast radio burst dispersion measures and rotation measures and the origin of intergalactic magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4220-4238.	4.4	27
101	Discovering the most elusive radio relic in the sky: diffuse shock acceleration caught in the act?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 496, L48-L53.	3.3	27
102	MeerKAT view of the diffuse radio sources in Abell 3667 and their interactions with the thermal plasma. <i>Astronomy and Astrophysics</i> , 2022, 659, A146.	5.1	27
103	On the dynamics and survival of fractal clouds in galactic winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4526-4544.	4.4	26
104	First constraints on the AGN X-ray luminosity function at $z \sim 6$ from an eROSITA-detected quasar. <i>Astronomy and Astrophysics</i> , 2021, 647, A5.	5.1	26
105	Radio observations of the merging galaxy cluster system Abell 3391-Abell 3395. <i>Astronomy and Astrophysics</i> , 2021, 647, A3.	5.1	25
106	A study of high-redshift AGN feedback in SZ cluster samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1766-1787.	4.4	24
107	Discovery of a supercluster in the eROSITA Final Equatorial Depth Survey: X-ray properties, radio halo, and double relics. <i>Astronomy and Astrophysics</i> , 2021, 647, A4.	5.1	24
108	Simulating the transport of relativistic electrons and magnetic fields injected by radio galaxies in the intracluster medium. <i>Astronomy and Astrophysics</i> , 2021, 653, A23.	5.1	24

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109	Reaching thermal noise at ultra-low radio frequencies. <i>Astronomy and Astrophysics</i> , 2020, 642, A85.	5.1	24
110	MIGHTEE: are giant radio galaxies more common than we thought?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3833-3845.	4.4	24
111	The EMU view of the Large Magellanic Cloud: troubles for sub-TeV WIMPs. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 046.	5.4	24
112	The ultra-steep diffuse radio emission observed in the cool-core cluster RX J1720.1+2638 with LOFAR at 54 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3995-4007.	4.4	23
113	Calibrating the relation of low-frequency radio continuum to star formation rate at 1 kpc scale with LOFAR. <i>Astronomy and Astrophysics</i> , 2019, 622, A8.	5.1	23
114	Radio haloes in Sunyaev-Zel'dovich-selected clusters of galaxies: the making of a halo?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 3391-3402.	4.4	22
115	Analytical model for cluster radio relics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2306-2317.	4.4	22
116	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
117	The Launching of Cold Clouds by Galaxy Outflows. IV. Cosmic-Ray-driven Acceleration. <i>Astrophysical Journal</i> , 2020, 905, 19.	4.5	22
118	Particle acceleration in a nearby galaxy cluster pair: the role of cluster dynamics. <i>Astronomy and Astrophysics</i> , 2019, 630, A77.	5.1	21
119	The LOFAR view of intergalactic magnetic fields with giant radio galaxies. <i>Astronomy and Astrophysics</i> , 2020, 638, A48.	5.1	21
120	The LOFAR and JVA view of the distant steep spectrum radio halo in MACS J1149.5+2223. <i>Astronomy and Astrophysics</i> , 2021, 650, A44.	5.1	21
121	Shock-multicloud interactions in galactic outflows II. Radiative fractal clouds and cold gas thermodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5658-5680.	4.4	20
122	Magnetogenesis and the Cosmic Web: A Joint Challenge for Radio Observations and Numerical Simulations. <i>Galaxies</i> , 2021, 9, 109.	3.0	20
123	Evolutionary phases of merging clusters as seen by LOFAR. <i>Astronomy and Astrophysics</i> , 2019, 622, A25.	5.1	19
124	A new model for including galactic winds in simulations of galaxy formation I. Introducing the Physically Evolved Winds (PhEW) model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2586-2604.	4.4	19
125	Nonthermal phenomena in the center of Abell 1775. <i>Astronomy and Astrophysics</i> , 2021, 649, A37.	5.1	19
126	Characterizing the radio emission from the binary galaxy cluster merger Abell 2146. <i>Astronomy and Astrophysics</i> , 2019, 622, A21.	5.1	18

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127	Particle re-acceleration and Faraday-complex structures in the RXCJ1314.4-2515 galaxy cluster. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	18
128	The intracluster magnetic field in the double relic galaxy cluster Abell 2345. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2518-2535.	4.4	18
129	Understanding the radio relic emission in the galaxy cluster MACS J0717.5+3745: Spectral analysis. Astronomy and Astrophysics, 2021, 646, A56.	5.1	18
130	Studying the merging cluster Abell 3266 with eROSITA. Astronomy and Astrophysics, 2022, 661, A36.	5.1	18
131	Radio footprints of a minor merger in the Shapley Supercluster: From supercluster down to galactic scales. Astronomy and Astrophysics, 2022, 660, A81.	5.1	18
132	Exploring the making of a galactic wind in the starbursting dwarf irregular galaxy IC10 with LOFAR. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1756-1764.	4.4	17
133	A giant radio bridge connecting two clusters in Abell 1758. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	3.3	17
134	Downstream Depolarization in the Sausage Relic: A 4 GHz Very Large Array Study. Astrophysical Journal, 2021, 911, 3.	4.5	17
135	The discovery of a radio galaxy of at least 5 Mpc. Astronomy and Astrophysics, 2022, 660, A2.	5.1	17
136	A massive cluster at $z=0.288$ caught in the process of formation: The case of Abell 959. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4775-4789.	4.4	16
137	Simulations of core formation for frequent dark matter self-interactions. Monthly Notices of the Royal Astronomical Society, 2019, 487, 354-363.	4.4	16
138	Simulations and observational tests of primordial magnetic fields from Cosmic Microwave Background constraints. Monthly Notices of the Royal Astronomical Society, 2020, 500, 5350-5368.	4.4	16
139	Deep Low-frequency Radio Observations of A2256. I. The Filamentary Radio Relic. Astrophysical Journal, 2022, 927, 80.	4.5	16
140	A 3.5 Mpc long radio relic in the galaxy cluster ClG 0217+70. Astronomy and Astrophysics, 2021, 656, A154.	5.1	15
141	THE DISCOVERY OF A RADIO HALO IN PLCK G147.3+16.6 AT $\langle i \rangle / \langle i \rangle = 0.65$. Astrophysical Journal Letters, 2014, 781, L32.	8.3	14
142	LOFAR Discovery of a Radio Halo in the High-redshift Galaxy Cluster PSZ2 G099.86+58.45. Astrophysical Journal Letters, 2019, 881, L18.	8.3	14
143	Radio constraints on dark matter annihilation in Canes Venatici I with LOFAR. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2663-2672.	4.4	14
144	The eROSITA Final Equatorial-Depth Survey (eFEDS). Astronomy and Astrophysics, 2022, 661, A13.	5.1	14

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145	Evolution of Primordial Magnetic Fields during Large-scale Structure Formation. <i>Astrophysical Journal</i> , 2022, 929, 127.	4.5	14
146	The relation between the diffuse X-ray luminosity and the radio power of the central AGN in galaxy groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2163-2174.	4.4	13
147	CHANG-ES XXIII: influence of a galactic wind in NGC 5775. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 658-684.	4.4	13
148	N -body simulations of dark matter with frequent self-interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 851-868.	4.4	13
149	Diffuse radio emission from galaxy clusters in the LOFAR Two-metre Sky Survey Deep Fields. <i>Astronomy and Astrophysics</i> , 2021, 648, A11.	5.1	13
150	Discovery of a Radio Halo (and Relic) in a $M ₅₀₀ \sim 10^{14} M_{\odot}$ Cluster. <i>Astrophysical Journal Letters</i> , 2021, 914, L29.	8.3	13
151	A LOFAR view into the stormy environment of the galaxy cluster 2A0335+096. <i>Astronomy and Astrophysics</i> , 2022, 659, A20.	5.1	13
152	Radio observations of the double-relic galaxy cluster Abell 1240. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	12
153	Shock-multicloud interactions in galactic outflows I. Cloud layers with lognormal density distributions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2173-2195.	4.4	12
154	Radio galaxies in galaxy groups: kinematics, scaling relations, and AGN feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2628-2637.	4.4	12
155	Morphology of radio relics II. Properties of polarized emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2714-2734.	4.4	12
156	The redshift evolution of extragalactic magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 256-270.	4.4	12
157	Redshift estimates for fast radio bursts and implications on intergalactic magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4811-4829.	4.4	11
158	Radio relics in PSZ2-G096.88+24.18: a connection with pre-existing plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4762-4774.	4.4	11
159	The spectacular cluster chain Abell 781 as observed with LOFAR, GMRT, and <i>XMM-Newton</i> . <i>Astronomy and Astrophysics</i> , 2019, 622, A19.	5.1	10
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