

Anita M S Richards

List of Publications by Year in descending order

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99
papers

2,129
citations

201674

27
h-index

254184

43
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101
all docs

101
docs citations

101
times ranked

1955
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphine gas in the cloud decks of Venus. <i>Nature Astronomy</i> , 2021, 5, 655-664.	10.1	174
2	High-resolution studies of radio sources in the Hubble Deep and Flanking Fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 358, 1159-1194.	4.4	116
3	The diversity of methanol maser morphologies from VLBI observations. <i>Astronomy and Astrophysics</i> , 2009, 502, 155-173.	5.1	74
4	ALMA data suggest the presence of spiral structure in the inner wind of CW Leonis. <i>Astronomy and Astrophysics</i> , 2015, 574, A5.	5.1	73
5	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. <i>Astrophysical Journal</i> , 2019, 886, 51.	4.5	71
6	Discovery of the galaxy counterpart of HDF 850.1, the brightest submillimetre source in the Hubble Deep Field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 350, 769-784.	4.4	70
7	QUASI-PERIODIC FORMALDEHYDE MASER FLARES IN THE MASSIVE PROTOSTELLAR OBJECT IRAS 18566+0408. <i>Astrophysical Journal Letters</i> , 2010, 717, L133-L137.	8.3	67
8	MERLIN observations of water maser proper motions in VY Canis Majoris. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 299, 319-331.	4.4	64
9	The physics of water masers observable with ALMA and SOFIA: model predictions for evolved stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 374-404.	4.4	60
10	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020, 369, 1497-1500.	12.6	57
11	ALMA observations of the nearby AGB star L ₂ Puppis. <i>Astronomy and Astrophysics</i> , 2016, 596, A92.	5.1	54
12	The close circumstellar environment of Betelgeuse. <i>Astronomy and Astrophysics</i> , 2018, 609, A67.	5.1	54
13	MERLIN polarimetry of the OH masers in OH17.7-2.0. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 338, 287-302.	4.4	50
14	Sub-au imaging of water vapour clouds around four asymptotic giant branch stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 342, 8-32.	4.4	48
15	The Formaldehyde Masers in NGC 7538 and G29.96 ^{+0.02} : Very Long Baseline Array, Multielement Radio-linked Interferometer Network, and Very Large Array Observations. <i>Astrophysical Journal</i> , 2003, 598, 1061-1075.	4.5	47
16	ALMA spectral line and imaging survey of a low and a high mass-loss rate AGB star between 335 and 362 GHz. <i>Astronomy and Astrophysics</i> , 2018, 615, A28.	5.1	46
17	Full polarization structure of the OH main-line maser envelopes of W Hydrae. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 297, 1151-1162.	4.4	41
18	Evolved star water maser cloud size determined by star size. <i>Astronomy and Astrophysics</i> , 2012, 546, A16.	5.1	41

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19	The 6-GHz multibeam maser survey â€“ II. Statistical analysis and Galactic distribution of 6668-MHz methanol masers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1383-1402.	4.4	41
20	A multi-transition molecular line study of candidate massive young stellar objects associated with methanol masers. <i>Astronomy and Astrophysics</i> , 2007, 468, 617-625.	5.1	39
21	ALMA sub-mm maser and dust distribution of VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2014, 572, L9.	5.1	35
22	e-MERLIN resolves Betelgeuse at $\hat{\nu} \approx 5 \text{ \AA}$: hotspots at 5 \AA . <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 432, L61-L65.	3.3	34
23	Spatially Resolved Ultraviolet Spectroscopy of the Great Dimming of Betelgeuse. <i>Astrophysical Journal</i> , 2020, 899, 68.	4.5	34
24	OH (1720 MHz) MASERS: A MULTIWAVELENGTH STUDY OF THE INTERACTION BETWEEN THE W51C SUPERNOVA REMNANT AND THE W51B STAR FORMING REGION. <i>Astrophysical Journal</i> , 2013, 771, 91.	4.5	33
25	Magnetic field in Cepheus A as deduced from OH maser polarimetric observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 361, 623-632.	4.4	32
26	An evolution of the infrared-radio correlation at very low flux densities?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 1143-1154.	4.4	30
27	An unusual face-on spiral in the wind of the M-type AGB star EP Aquarii. <i>Astronomy and Astrophysics</i> , 2018, 616, A34.	5.1	29
28	The radially expanding molecular outflow of VX Sagittarii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 1-12.	4.4	26
29	ALMA observations of the nearby AGB star L ₂ Puppis. <i>Astronomy and Astrophysics</i> , 2017, 601, A5.	5.1	26
30	Observational evidence for the shrinking of bright maser spots. <i>Astronomy and Astrophysics</i> , 2011, 525, A56.	5.1	25
31	Reply to: No evidence of phosphine in the atmosphere of Venus from independent analyses. <i>Nature Astronomy</i> , 2021, 5, 636-639.	10.1	24
32	The Sizes of OH (1720 MHz) Supernova Remnant Masers: MERLIN and Very Long Baseline Array Observations of IC 443. <i>Astrophysical Journal</i> , 2003, 583, 272-279.	4.5	23
33	The e-MERGE Survey (e-MERLIN Galaxy Evolution Survey): overview and survey description. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1188-1208.	4.4	23
34	Co-propagation of maser emission at 1720 and 4765 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 324, 643-647.	4.4	22
35	The Compact Circumstellar Material around OH 231.8+4.2. <i>Astrophysical Journal</i> , 2006, 646, L123-L126.	4.5	22
36	Asymmetric mid-plane gas in ALMA images of HD 100546. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 739-752.	4.4	20

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37	MERLIN polarimetry of the OH masers in IRAS 20406+2953. Monthly Notices of the Royal Astronomical Society, 2004, 354, 529-542.	4.4	19
38	Using VO tools to investigate distant radio starbursts hosting obscured AGN in the HDF(N) region. Astronomy and Astrophysics, 2007, 472, 805-822.	5.1	18
39	The 43-GHz SiO maser in the circumstellar envelope of the asymptotic giant branch star R Cassiopeiae. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1083-1092.	4.4	18
40	ATOMIUM: A high-resolution view on the highly asymmetric wind of the AGB star ϵ Cruis. Astronomy and Astrophysics, 2020, 644, A61.	5.1	17
41	A MERLIN Study of 6-GHz excited-state OH and 6.7-GHz methanol masers in ON1. Monthly Notices of the Royal Astronomical Society, 2007, 382, 770-778.	4.4	16
42	An ALMA view of CS and SiS around oxygen-rich AGB stars. Monthly Notices of the Royal Astronomical Society, 2019, 484, 494-509.	4.4	16
43	The Mass-loss History of the Red Hypergiant VY CMa*. Astronomical Journal, 2021, 161, 98.	4.7	16
44	OH Megamasers, Starburst and AGN Activity in Markarian 231. Monthly Notices of the Royal Astronomical Society, 2005, 364, 353-366.	4.4	15
45	Enhanced dust emission in the HL Tau disc: a low-mass companion in formation?. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 391, L74-L78.	3.3	15
46	Oxygen-rich disk in the V778 Cygni system resolved. Astronomy and Astrophysics, 2006, 452, 561-565.	5.1	15
47	A search for radio emission from Galactic supersoft X-ray sources. Monthly Notices of the Royal Astronomical Society, 2002, 330, 772-777.	4.4	14
48	Spatial and velocity coincidence of 4765- and 1720-MHz OH masers in two star-forming regions Cep A and W75N. Monthly Notices of the Royal Astronomical Society, 2004, 350, 1409-1415.	4.4	14
49	An ALMA view of SO and SO ₂ around oxygen-rich AGB stars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1323-1347.	4.4	14
50	ATOMIUM: ALMA tracing the origins of molecules in dust forming oxygen rich M-type stars. Astronomy and Astrophysics, 2022, 660, A94.	5.1	14
51	ATOMIUM: halide molecules around the S-type AGB star W Aquilae. Astronomy and Astrophysics, 2021, 655, A80.	5.1	13
52	Rotational Spectra of Vibrationally Excited AlO and TiO in Oxygen-rich Stars. Astrophysical Journal, 2020, 904, 110.	4.5	12
53	Discrete Source Survey of 6 GHz OH emission from PNe and pPNe and first 6 GHz images of K 3-35. Astronomy and Astrophysics, 2010, 520, A45.	5.1	10
54	Low levels of sulphur dioxide contamination of Venusian phosphine spectra. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2994-3001.	4.4	10

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55	MULTI-WAVELENGTH RADIO CONTINUUM EMISSION STUDIES OF DUST-FREE RED GIANTS. <i>Astronomical Journal</i> , 2013, 146, 98.	4.7	9
56	Planet formation in intermediate-separation binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4317-4328.	4.4	9
57	Collisional and radiative pumping in 22-GHz water masers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1354-1364.	4.4	9
58	Flares and proper motions of ground-state OH masers in W75N. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 555-566.	4.4	8
59	Venusian phosphine: a "wow!" signal in chemistry?. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 0, , 1-6.	1.6	8
60	Galactic Hi on the 50-au scale in the direction of three extragalactic sources observed with MERLIN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 165-175.	4.4	7
61	Circumstellar CO in metal-poor stellar winds: the highly irradiated globular cluster star 47 Tucanae V3. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L85-L89.	3.3	7
62	Methanol and water maser observations separate disc and outflow sources in IRAS 19410+2336. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4442-4452.	4.4	7
63	MERLIN imaging of the maser flare in Markarian 348. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, L37-L40.	4.4	6
64	Linear radio structures in selected Seyfert galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	4.4	5
65	Recurring OH Flares towards α Ceti: I. location and structure of the 1990s and 2010s events. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	5
66	A detailed view on the circumstellar environment of the M-type AGB star EP Aquarii. <i>Astronomy and Astrophysics</i> , 2020, 642, A93.	5.1	5
67	The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1091-1110.	4.4	5
68	Merlin and Puschino Observations of H ₂ O Masers in Outer Galactic SFR S128N. <i>Astrophysics and Space Science</i> , 2005, 295, 19-25.	1.4	4
69	A warped m= 2 water maser disc in V778 Cyg?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 1921-1927.	4.4	4
70	Circumstellar CO J = 3 \rightarrow 2 detected around the evolving metal-poor ([Fe/H] $\hat{\sim}$ 1.15 dex) AGB star RU Vulpeculae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 1174-1189.	4.4	4
71	A MeerKAT, e-MERLIN, H.E.S.S., and Swift search for persistent and transient emission associated with three localized FRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1365-1379.	4.4	4
72	The disappearance of the 1667-MHz OH maser in IRAS 17436+5003 (HD 161796). <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, L46-L50.	4.4	2

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73	AstroGrid: A place for your science. <i>Astronomy and Geophysics</i> , 2006, 47, 3.22-3.24.	0.2	2
74	Turbulent, steamy red supergiant winds. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 261-265.	0.0	2
75	SOFIA upGREAT/FIFI-LS Emission-line Observations of Betelgeuse during the Great Dimming of 2019/2020. <i>Astronomical Journal</i> , 2021, 162, 246.	4.7	2
76	The Virtual Observatories: a major new facility for astronomy: linking ELTs, great observatories and the science community. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 398-403.	0.0	1
77	Evidence for Co-Propagation of 4765- and 1720-MHz OH Masers in Star-Forming Regions. <i>Astrophysics and Space Science</i> , 2005, 295, 37-42.	1.4	1
78	OH and H ₂ O masers towards the star-forming region S140-IRS1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	4.4	1
79	Masers in evolved star winds. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 199-208.	0.0	1
80	Distances of Stars by mean of the Phase-lag Method. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 381-384.	0.0	1
81	Outburst OH maser activity in the envelopes of θ Persei and VX Sagittarii. <i>Astronomy and Astrophysics</i> , 2010, 524, A99.	5.1	1
82	The circumstellar envelope of S persei. <i>Astrophysics and Space Science</i> , 1995, 224, 545-546.	1.4	0
83	<title>AVO interoperability demonstration</title>. , 2002, 4846, 189.		0
84	Triplet spectra of H ₂ O masers and protoplanetary disks. <i>Astronomy Reports</i> , 2003, 47, 326-332.	0.9	0
85	Magnetic Field in the Proto-Planetary Nebula OH17.7. Symposium - International Astronomical Union, 2003, 209, 143-144.	0.1	0
86	High Redshift Starburst Galaxies in the Hubble Deep and Flanking Fields. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
87	High-z radio starbursts host X-ray AGN. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 422-422.	0.0	0
88	Near-IR properties of <i>Spitzer</i> sources. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 611-611.	0.0	0
89	Linear radio structures in selected Seyfert and LINER galaxies. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
90	Polarization of 6.0-GHz OH masers in W3(OH). <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 156-157.	0.0	0

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91	Towards constraining the environments of methanol masers. Proceedings of the International Astronomical Union, 2007, 3, 192-193.	0.0	0
92	VLBI OH maser polarimetry with the Australian Long Baseline Array: the star-forming region G340.054â€“0.244. Proceedings of the International Astronomical Union, 2007, 3, 64-65.	0.0	0
93	A MERLIN study of 6 GHz excited OH & 6.7 GHz methanol masers in ON1. Proceedings of the International Astronomical Union, 2007, 3, 188-189.	0.0	0
94	Discrete survey of 5-cm OH emission from planetary and proto-planetary nebulae. Proceedings of the International Astronomical Union, 2007, 3, 344-345.	0.0	0
95	Subarcsecond radio continuum mapping in and around the spiral galaxy NGCâ€ƒ3351 using MERLIN. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	0
96	Polarization properties of R Cas SiO masers. Proceedings of the International Astronomical Union, 2012, 8, 235-239.	0.0	0
97	Hot and cold running water: understanding evolved star winds. Proceedings of the International Astronomical Union, 2017, 13, 347-350.	0.0	0
98	Methanol masers and magnetic field in IRAS18089-1732. Proceedings of the International Astronomical Union, 2017, 13, 285-286.	0.0	0
99	Full polarization analysis of OH masers at 18-cm toward W49 star forming region. Proceedings of the International Astronomical Union, 2017, 13, 309-310.	0.0	0