

Anita M S Richards

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,624
citations

25
h-index

38
g-index

101
ext. papers

1,847
ext. citations

4.1
avg, IF

4.45
L-index

#	Paper	IF	Citations
92	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	4.3	107
91	Phosphine gas in the cloud decks of Venus. <i>Nature Astronomy</i> , 2021 , 5, 655-664	12.1	70
90	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	4.3	67
89	The diversity of methanol maser morphologies from VLBI observations. <i>Astronomy and Astrophysics</i> , 2009 , 502, 155-173	5.1	64
88	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	63
87	MERLIN observations of water maser proper motions in VY Canis Majoris. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998 , 299, 319-331	4.3	62
86	QUASI-PERIODIC FORMALDEHYDE MASER FLARES IN THE MASSIVE PROTOSTELLAR OBJECT IRAS 18566+0408. <i>Astrophysical Journal Letters</i> , 2010 , 717, L133-L137	7.9	58
85	MERLIN polarimetry of the OH masers in OH17.7-2.0. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 338, 287-302	4.3	47
84	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	4.3	47
83	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	4.7	46
82	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	4.3	45
81	ALMA observations of the nearby AGB star L2 Puppis. <i>Astronomy and Astrophysics</i> , 2016 , 596, A92	5.1	45
80	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. <i>Astrophysical Journal</i> , 2019 , 886, 51	4.7	44
79	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	4.3	40
78	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	37
77	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	36
76	The close circumstellar environment of Betelgeuse. <i>Astronomy and Astrophysics</i> , 2018 , 609, A67	5.1	35

75	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	4.7	33
74	Evolved star water maser cloud size determined by star size. <i>Astronomy and Astrophysics</i> , 2012 , 546, A165.1		32
73	The 6-GHz multibeam maser survey III. Statistical analysis and Galactic distribution of 6668-MHz methanol masers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 1383-1402	4.3	31
72	e-MERLIN resolves Betelgeuse at 15 cm: hotspots at 5R?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013 , 432, L61-L65	4.3	31
71	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020 , 369, 1497-1500	33.3	31
70	ALMA sub-mm maser and dust distribution of VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2014 , 572, L9	5.1	30
69	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	4.3	30
68	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	4.3	29
67	The radially expanding molecular outflow of VX Sagittarii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 344, 1-12	4.3	25
66	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	25
65	ALMA observations of the nearby AGB star L2Puppis. <i>Astronomy and Astrophysics</i> , 2017 , 601, A5	5.1	24
64	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	4.7	23
63	Observational evidence for the shrinking of bright maser spots. <i>Astronomy and Astrophysics</i> , 2011 , 525, A56	5.1	22
62	The Compact Circumstellar Material around OH 231.8+4.2. <i>Astrophysical Journal</i> , 2006 , 646, L123-L126	4.7	22
61	Co-propagation of maser emission at 1720 and 4765 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 324, 643-647	4.3	19
60	MERLIN polarimetry of the OH masers in IRAS 20406+2953. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 354, 529-542	4.3	18
59	The 43-GHz SiO maser in the circumstellar envelope of the asymptotic giant branch star R Cassiopeiae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 415, 1083-1092	4.3	17
58	Using VO tools to investigate distant radio starbursts hosting obscured AGN in the HDF(N) region. <i>Astronomy and Astrophysics</i> , 2007 , 472, 805-822	5.1	17

57	Spatially Resolved Ultraviolet Spectroscopy of the Great Dimming of Betelgeuse. <i>Astrophysical Journal</i> , 2020 , 899, 68	4.7	16
56	Oxygen-rich disk in the V778 Cygni system resolved. <i>Astronomy and Astrophysics</i> , 2006 , 452, 561-565	5.1	15
55	A MERLIN Study of 6-GHz excited-state OH and 6.7-GHz methanol masers in ON1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 382, 770-778	4.3	14
54	Spatial and velocity coincidence of 4765- and 1720-MHz OH masers in two star-forming regions Cep A and W75N. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 350, 1409-1415	4.3	14
53	OH Megamasers, Starburst and AGN Activity in Markarian 231. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 364, 353-366	4.3	14
52	Enhanced dust emission in the HL Tau disc: a low-mass companion in formation?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 ,	4.3	13
51	A search for radio emission from Galactic supersoft X-ray sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 330, 772-777	4.3	12
50	An ALMA view of CS and SiS around oxygen-rich AGB stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 484, 494-509	4.3	11
49	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	4.3	11
48	Reply to: No evidence of phosphine in the atmosphere of Venus from independent analyses. <i>Nature Astronomy</i> , 2021 , 5, 636-639	12.1	10
47	Asymmetric mid-plane gas in ALMA images of HD 100546. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 739-752	4.3	9
46	Discrete Source Survey of 6 GHz OH emission from PNe and pPNe and first 6 GHz images of KBB5. <i>Astronomy and Astrophysics</i> , 2010 , 520, A45	5.1	9
45	Rotational Spectra of Vibrationally Excited AlO and TiO in Oxygen-rich Stars. <i>Astrophysical Journal</i> , 2020 , 904, 110	4.7	8
44	ATOMIUM: A high-resolution view on the highly asymmetric wind of the AGB star η Gruis. <i>Astronomy and Astrophysics</i> , 2020 , 644, A61	5.1	8
43	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	4.3	7
42	MULTI-WAVELENGTH RADIO CONTINUUM EMISSION STUDIES OF DUST-FREE RED GIANTS. <i>Astronomical Journal</i> , 2013 , 146, 98	4.9	7
41	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	4.3	7
40	An ALMA view of SO and SO ₂ around oxygen-rich AGB stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 1323-1347	4.3	7

39	MERLIN imaging of the maser flare in Markarian 348. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 326, L37-L40	4.3	6
38	The Mass-loss History of the Red Hypergiant VY CMa. <i>Astronomical Journal</i> , 2021 , 161, 98	4.9	6
37	Flares and proper motions of ground-state OH masers in W75N. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 417, 555-566	4.3	5
36	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> , 2017 ,	4.3	4
35	A warped $m=2$ water maser disc in V778 Cyg?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 370, 1921-1927	4.3	4
34	Merlin and Puschino Observations of H ₂ O Masers in Outer Galactic SFR S128N. <i>Astrophysics and Space Science</i> , 2005 , 295, 19-25	1.6	3
33	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	3
32	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	4.3	2
31	Circumstellar CO J = 3-2 detected around the evolving metal-poor ([Fe/H] \approx -1.15 dex) AGB star RU Vulpeculae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 1174-1189	4.3	2
30	Linear radio structures in selected Seyfert galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 ,	4.3	2
29	AstroGrid: A place for your science. <i>Astronomy and Geophysics</i> , 2006 , 47, 3.22-3.24	0.2	2
28	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	4.3	2
27	ATOMIUM: Halide molecules around the S-type AGB star W Aquilae. <i>Astronomy and Astrophysics</i> ,	5.1	2
26	OH and H ₂ O masers towards the star-forming region S140-IRS1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 ,	4.3	1
25	Masers in evolved star winds. <i>Proceedings of the International Astronomical Union</i> , 2012 , 8, 199-208	0.1	1
24	Turbulent, steamy red supergiant winds. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 261-265	0.1	1
23	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	0.1	1
22	ATOMIUM: ALMA tracing the origins of molecules in dust forming oxygen rich M-type stars. Motivation, sample, calibration, and initial results. <i>Astronomy and Astrophysics</i> ,	5.1	1

21	SOFIA upGREAT/FIFI-LS Emission-line Observations of Betelgeuse during the Great Dimming of 2019/2020. <i>Astronomical Journal</i> , 2021 , 162, 246	4.9	1
20	Outburst OH maser activity in the envelopes of S Persei and VX Sagittarii. <i>Astronomy and Astrophysics</i> , 2010 , 524, A99	5.1	1
19	Planet formation in intermediate-separation binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 4317-4328	4.3	1
18	Distances of Stars by mean of the Phase-lag Method. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 381-384	0.1	0
17	Venusian phosphine: a Wow! Signal in chemistry?. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1-6	1	0
16	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	4.3	0
15	Hot and cold running water: understanding evolved star winds. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 347-350	0.1	
14	Methanol masers and magnetic field in IRAS18089-1732. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 285-286	0.1	
13	Full polarization analysis of OH masers at 18-cm toward W49 A star forming region. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 309-310	0.1	
12	Polarization properties of R Cas SiO masers. <i>Proceedings of the International Astronomical Union</i> , 2012 , 8, 235-239	0.1	
11	Polarization of 6.0-GHz OH masers in W3(OH). <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 156-157	0.1	
10	Towards constraining the environments of methanol masers. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 192-193	0.1	
9	VLBI OH maser polarimetry with the Australian Long Baseline Array: the star-forming region G340.0540-0.244. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 64-65	0.1	
8	A MERLIN study of 6 GHz excited OH & 6.7 GHz methanol masers in ON1. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 188-189	0.1	
7	Discrete survey of 5-cm OH emission from planetary and proto-planetary nebulae. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 344-345	0.1	
6	High-z radio starbursts host X-ray AGN. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 422-422	4.2	
5	Near-IR properties of Spitzer sources. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 611-611	4.1	
4	Magnetic Field in the Proto-Planetary Nebula OH17.70-0. <i>Symposium - International Astronomical Union</i> , 2003 , 209, 143-144		

- 3 Triplet spectra of H₂O masers and protoplanetary disks. *Astronomy Reports*, **2003**, 47, 326-332 1.1
- 2 Evidence for Co-Propagation of 4765- and 1720-MHz OH Masers in Star-Forming Regions. *Astrophysics and Space Science*, **2005**, 295, 37-42 1.6
- 1 The circumstellar envelope of S persei. *Astrophysics and Space Science*, **1995**, 224, 545-546 1.6