

# Wouter H T Vlemmings

## List of Publications by Year in descending order

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95  
papers

2,152  
citations

218677

26  
h-index

233421

45  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arecibo Pulsar Survey Using ALFA. I. Survey Strategy and First Discoveries. <i>Astrophysical Journal</i> , 2006, 637, 446-455.	4.5	205
2	An Eccentric Binary Millisecond Pulsar in the Galactic Plane. <i>Science</i> , 2008, 320, 1309-1312.	12.6	152
3	A magnetically collimated jet from an evolved star. <i>Nature</i> , 2006, 440, 58-60.	27.8	116
4	A repeating fast radio burst source in a globular cluster. <i>Nature</i> , 2022, 602, 585-589.	27.8	110
5	Arecibo Pulsar Survey Using ALFA. II. The Young, Highly Relativistic Binary Pulsar J1906+0746. <i>Astrophysical Journal</i> , 2006, 640, 428-434.	4.5	103
6	THE 2014 ALMA LONG BASELINE CAMPAIGN: AN OVERVIEW. <i>Astrophysical Journal Letters</i> , 2015, 808, L1.	8.3	90
7	VLBA observations of SiO masers towards Mira variable stars. <i>Astronomy and Astrophysics</i> , 2004, 414, 275-288.	5.1	88
8	VLBA DETERMINATION OF THE DISTANCE TO NEARBY STAR-FORMING REGIONS. V. DYNAMICAL MASS, DISTANCE, AND RADIO STRUCTURE OF V773 Tau A. <i>Astrophysical Journal</i> , 2012, 747, 18.	4.5	74
9	A wide-angle outflow with the simultaneous presence of a high-velocity jet in the high-mass Cepheus A HW2 system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 627-640.	4.4	66
10	A strong magnetic field in the jet base of a supermassive black hole. <i>Science</i> , 2015, 348, 311-314.	12.6	61
11	Magnetic field in a young circumbinary disk. <i>Astronomy and Astrophysics</i> , 2018, 616, A56.	5.1	52
12	Molecular outflow launched beyond the disk edge. <i>Astronomy and Astrophysics</i> , 2017, 603, L3.	5.1	47
13	Further VLBA observations of SiO masers toward Mira variable stars. <i>Astronomy and Astrophysics</i> , 2006, 456, 339-350.	5.1	46
14	Burst timescales and luminosities as links between young pulsars and fast radio bursts. <i>Nature Astronomy</i> , 2022, 6, 393-401.	10.1	46
15	THE FIRST LOW-MASS BLACK HOLE X-RAY BINARY IDENTIFIED IN QUIESCENCE OUTSIDE OF A GLOBULAR CLUSTER. <i>Astrophysical Journal</i> , 2016, 825, 10.	4.5	43
16	Stringent limits on the magnetic field strength in the disc of TW Hya. <i>Astronomy and Astrophysics</i> , 2019, 624, L7.	5.1	41
17	ALMA sub-mm maser and dust distribution of VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2014, 572, L9.	5.1	35
18	ALMA observations of $\hat{\iota}$ Centauri. <i>Astronomy and Astrophysics</i> , 2015, 573, L4.	5.1	33

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19	A Catalog of GALEX Ultraviolet Emission from Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2017, 841, 33.	4.5	33
20	ALMA observations of anisotropic dust mass loss in the inner circumstellar environment of the red supergiant VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2015, 573, L1.	5.1	31
21	Magnetically aligned dust and SiO maser polarisation in the envelope of the red supergiant VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2017, 603, A92.	5.1	31
22	Revisiting the birth locations of pulsars B1929+10, B2020+28, and B2021+51. <i>Astronomy and Astrophysics</i> , 2015, 577, A111.	5.1	29
23	Stacking of large interferometric data sets in the image- and uv-domain – a comparative study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3502-3515.	4.4	29
24	The shock-heated atmosphere of an asymptotic giant branch star resolved by ALMA. <i>Nature Astronomy</i> , 2017, 1, 848-853.	10.1	28
25	Milliarcsecond Localization of the Repeating FRB 20201124A. <i>Astrophysical Journal Letters</i> , 2022, 927, L3.	8.3	28
26	ALMA observations of TiO <sub>2</sub> around VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2015, 580, A36.	5.1	27
27	ALMA Observations of the Water Fountain Pre-planetary Nebula IRAS 16342-3814: High-velocity Bipolar Jets and an Expanding Torus. <i>Astrophysical Journal Letters</i> , 2017, 835, L13.	8.3	27
28	Circular polarization of circumstellar water masers around S Per. <i>Astronomy and Astrophysics</i> , 2001, 375, L1-L4.	5.1	26
29	The <i>Herschel</i> Planetary Nebula Survey (HerPlaNS). <i>Astronomy and Astrophysics</i> , 2014, 565, A36.	5.1	25
30	The Coldest Place in the Universe: Probing the Ultra-cold Outflow and Dusty Disk in the Boomerang Nebula. <i>Astrophysical Journal</i> , 2017, 841, 110.	4.5	23
31	Characterization of methanol as a magnetic field tracer in star-forming regions. <i>Nature Astronomy</i> , 2018, 2, 145-150.	10.1	23
32	Magnetic fields at the onset of high-mass star formation. <i>Astronomy and Astrophysics</i> , 2018, 614, A64.	5.1	23
33	A search for radio emission from exoplanets around evolved stars. <i>Astronomy and Astrophysics</i> , 2018, 612, A52.	5.1	21
34	Resolving the extended stellar atmospheres of asymptotic giant branch stars at (sub)millimetre wavelengths. <i>Astronomy and Astrophysics</i> , 2019, 626, A81.	5.1	20
35	ALMA resolves the remarkable molecular jet and rotating wind in the extremely radio-quiet galaxy NGC 1377. <i>Astronomy and Astrophysics</i> , 2020, 640, A104.	5.1	19
36	The magnetic field of the evolved star W43A. <i>Astronomy and Astrophysics</i> , 2010, 509, A26.	5.1	18

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37	<i>Herschel</i> Planetary Nebula Survey (HerPlaNS). <i>Astronomy and Astrophysics</i> , 2014, 566, A79.	5.1	18
38	Simplified models of stellar wind anatomy for interpreting high-resolution data. <i>Astronomy and Astrophysics</i> , 2015, 579, A118.	5.1	18
39	The Unexpected Spectrum of the Innermost Ejecta of the Red Hypergiant VY CMa <sup>—</sup> . <i>Astrophysical Journal Letters</i> , 2019, 874, L26.	8.3	17
40	Temporal evolution of the size and temperature of Betelgeuse's extended atmosphere. <i>Astronomy and Astrophysics</i> , 2015, 580, A101.	5.1	16
41	LINEAR POLARIZATION OF CLASS I METHANOL MASERS IN MASSIVE STAR-FORMING REGIONS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 17.	7.7	15
42	Inner dusty envelope of the AGB stars W Hydrae, SW Virginis, and R Crateris using SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2020, 635, A200.	5.1	15
43	PORTAL: Three-dimensional polarized (sub)millimeter line radiative transfer. <i>Astronomy and Astrophysics</i> , 2020, 636, A14.	5.1	14
44	Gravity and Rotation Drag the Magnetic Field in High-mass Star Formation. <i>Astrophysical Journal</i> , 2020, 904, 168.	4.5	14
45	The kinematics and magnetic fields in water-fountain sources based on OH maser observations. <i>Astronomy and Astrophysics</i> , 2011, 532, A149.	5.1	13
46	Precision astrometry of pulsars and other compact radio sources in the globular cluster M15. <i>Astronomy and Astrophysics</i> , 2014, 565, A43.	5.1	12
47	Characterizing maser polarization: effects of saturation, anisotropic pumping, and hyperfine structure. <i>Astronomy and Astrophysics</i> , 2019, 628, A14.	5.1	10
48	Discovery of Molecular-line Polarization in the Disk of TW Hya. <i>Astrophysical Journal</i> , 2021, 922, 139.	4.5	10
49	Detection of highly excited OH towards AGB stars. <i>Astronomy and Astrophysics</i> , 2019, 623, L1.	5.1	9
50	Silicon isotopic abundance toward evolved stars and its application for presolar grains. <i>Astronomy and Astrophysics</i> , 2013, 559, L8.	5.1	8
51	Observational identification of a sample of likely recent common-envelope events. <i>Nature Astronomy</i> , 2022, 6, 275-286.	10.1	8
52	Collisional polarization of molecular ions: a signpost of ambipolar diffusion. <i>Astronomy and Astrophysics</i> , 2020, 638, L7.	5.1	7
53	VLA cm-wave survey of young stellar objects in the Oph A cluster: constraining extreme UV- and X-ray-driven disk photoevaporation. <i>Astronomy and Astrophysics</i> , 2019, 631, A58.	5.1	6
54	EVN observations of 6.7 GHz methanol maser polarization in massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2019, 623, A130.	5.1	6

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55	Deep into the Water Fountains. <i>Astronomy and Astrophysics</i> , 2017, 601, A68.	5.1	5
56	ALMA Compact Array observations of the Fried Egg nebula. <i>Astronomy and Astrophysics</i> , 2017, 597, A99.	5.1	5
57	Masers: Precision probes of molecular gas. <i>Advances in Space Research</i> , 2020, 65, 780-789.	2.6	5
58	Detection of thermal radio emission from a single coronal giant. <i>Astronomy and Astrophysics</i> , 2017, 599, A47.	5.1	5
59	EVN observations of 6.7 GHz methanol maser polarization in massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2022, 658, A78.	5.1	5
60	Magnetic fields during the evolution towards planetary nebulae. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 176-179.	0.0	4
61	Multiwavelength Observations of the RV Tauri Variable System U Monocerotis: Long-term Variability Phenomena That Can Be Explained by Binary Interactions with a Circumbinary Disk. <i>Astrophysical Journal</i> , 2021, 909, 138.	4.5	4
62	Mapping Circumstellar Magnetic Fields of Late-type Evolved Stars with the Goldreich-Kylafis Effect: CARMA Observations at $\lambda = 1.3$ mm of R Crb and R Leo. <i>Astrophysical Journal</i> , 2020, 899, 152.	4.5	4
63	First detection of ALF line emission towards M-type AGB stars. <i>Astronomy and Astrophysics</i> , 2022, 663, A54.	5.1	4
64	The Synergy between VLBI and Gaia astrometry. , 2019, , .		3
65	First Images of the Molecular Gas around a Born-again Star Revealed by ALMA. <i>Astrophysical Journal Letters</i> , 2022, 925, L4.	8.3	3
66	Radio pulsars and transients in the Galactic center. <i>Journal of Physics: Conference Series</i> , 2006, 54, 110-114.	0.4	2
67	Arecibo and the ALFA Pulsar Survey. <i>Research in Astronomy and Astrophysics</i> , 2006, 6, 311-318.	1.1	2
68	Turbulent, steamy red supergiant winds. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 261-265.	0.0	2
69	Adaptable Radiative Transfer Innovations for Submillimeter Telescopes (ARTIST). <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 451-454.	0.0	2
70	ALMA observations of $\text{TiO}_2$ around VY CMa. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022009.	0.4	2
71	Maser emission from the CO envelope of the asymptotic giant branch star W Hydrae. <i>Astronomy and Astrophysics</i> , 2021, 654, A18.	5.1	2
72	Tracing the large-scale magnetic field morphology in protoplanetary disks using molecular line polarization. <i>Astronomy and Astrophysics</i> , 2022, 657, A106.	5.1	2

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73	The Discovery of an Eccentric Millisecond Pulsar in the Galactic Plane. AIP Conference Proceedings, 2008, , .	0.4	1
74	TWINKLING STARS The disappearing SiO masers of W Aql. Proceedings of the International Astronomical Union, 2012, 8, 260-261.	0.0	1
75	The European ALMA Regional Centre: a model of user support. , 2014, , .		1
76	3D Models of Symbiotic Binaries. EAS Publications Series, 2015, 71-72, 81-86.	0.3	1
77	An ALMA view of the post-AGB object HD 101584. Journal of Physics: Conference Series, 2016, 728, 042005.	0.4	1
78	The Impact of UV Radiation on Circumstellar Chemistry. Proceedings of the International Astronomical Union, 2018, 14, 191-195.	0.0	1
79	The magnetic field of the evolved star W43A. Proceedings of the International Astronomical Union, 2008, 4, 109-110.	0.0	0
80	On the magnetic field of OH 231.8+4.2. Proceedings of the International Astronomical Union, 2011, 7, 418-419.	0.0	0
81	$H_{2}O$ maser polarization of the water fountains IRAS 15445â€“5449 and IRAS 18043â€“2116. Proceedings of the International Astronomical Union, 2011, 7, 474-475.	0.0	0
82	SHOOTING STARS Masers from red giants. Proceedings of the International Astronomical Union, 2012, 8, 292-293.	0.0	0
83	Maser polarization with ALMA. Proceedings of the International Astronomical Union, 2012, 8, 64-68.	0.0	0
84	High resolution magnetic field measurements in high-mass star-forming regions using masers. Proceedings of the International Astronomical Union, 2012, 8, 69-73.	0.0	0
85	The magnetic field of IRAS 16293-2422 as traced by shock-induced H <sub>2</sub> O masers. Proceedings of the International Astronomical Union, 2012, 8, 74-78.	0.0	0
86	Methanol masers and millimetre lines: a common origin in protostellar envelopes. Proceedings of the International Astronomical Union, 2012, 8, 146-150.	0.0	0
87	Quantum-Chemical calculations revealing the effects of magnetic fields on methanol masers. Proceedings of the International Astronomical Union, 2017, 13, 23-26.	0.0	0
88	Submillimeter H <sub>2</sub> O maser emission from water fountain nebulae. Proceedings of the International Astronomical Union, 2017, 13, 369-372.	0.0	0
89	Maser Polarization. Proceedings of the International Astronomical Union, 2017, 13, 27-32.	0.0	0
90	Updates on the Ultraviolet Emission from Asymptotic Giant Branch Stars. Proceedings of the International Astronomical Union, 2018, 14, 474-475.	0.0	0

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91	Imaging the dust and the gas around Mira using ALMA and SPHERE/ZIMPOL. Proceedings of the International Astronomical Union, 2018, 14, 31-35.	0.0	0
92	Magnetic fields of AGB and post-AGB stars. Proceedings of the International Astronomical Union, 2018, 14, 19-26.	0.0	0
93	Characterizing maser polarization: effects of saturation, anisotropic pumping, and hyperfine structure (Corrigendum). Astronomy and Astrophysics, 2020, 638, C6.	5.1	0
94	Magnetic Fields with the Atacama Large Millimeter/Submillimeter Array. Astrophysics and Space Science Library, 2015, , 19-37.	2.7	0
95	DEATHSTARâ€™CO Envelope Size and Asymmetry of Nearby AGB Stars. Galaxies, 2022, 10, 33.	3.0	0