

Wouter H T Vlemmings

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,152
citations

218677

26
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233421

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docs citations

95
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Burst timescales and luminosities as links between young pulsars and fast radio bursts. <i>Nature Astronomy</i> , 2022, 6, 393-401.	10.1	46
5	A repeating fast radio burst source in a globular cluster. <i>Nature</i> , 2022, 602, 585-589.	27.8	110
6	DEATHSTARâ€™CO Envelope Size and Asymmetry of Nearby AGB Stars. <i>Galaxies</i> , 2022, 10, 33.	3.0	0
7	Milliarcsecond Localization of the Repeating FRB 20201124A. <i>Astrophysical Journal Letters</i> , 2022, 927, L3.	8.3	28
8	First detection of AlF line emission towards M-type AGB stars. <i>Astronomy and Astrophysics</i> , 2022, 663, A54.	5.1	4
9	Observational identification of a sample of likely recent common-envelope events. <i>Nature Astronomy</i> , 2022, 6, 275-286.	10.1	8
10	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
11	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
12	Discovery of Molecular-line Polarization in the Disk of TW Hya. <i>Astrophysical Journal</i> , 2021, 922, 139.	4.5	10
13	Masers: Precision probes of molecular gas. <i>Advances in Space Research</i> , 2020, 65, 780-789.	2.6	5
14	Characterizing maser polarization: effects of saturation, anisotropic pumping, and hyperfine structure (Corrigendum). <i>Astronomy and Astrophysics</i> , 2020, 638, C6.	5.1	0
15	PORTAL: Three-dimensional polarized (sub)millimeter line radiative transfer. <i>Astronomy and Astrophysics</i> , 2020, 636, A14.	5.1	14
16	Collisional polarization of molecular ions: a signpost of ambipolar diffusion. <i>Astronomy and Astrophysics</i> , 2020, 638, L7.	5.1	7
17	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
18	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

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19	Gravity and Rotation Drag the Magnetic Field in High-mass Star Formation. <i>Astrophysical Journal</i> , 2020, 904, 168.	4.5	14
20	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
21	The Unexpected Spectrum of the Innermost Ejecta of the Red Hypergiant VY CMa. <i>Astrophysical Journal Letters</i> , 2019, 874, L26.	8.3	17
22	Detection of highly excited OH towards AGB stars. <i>Astronomy and Astrophysics</i> , 2019, 623, L1.	5.1	9
23	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
24	Stringent limits on the magnetic field strength in the disc of TW Hya. <i>Astronomy and Astrophysics</i> , 2019, 624, L7.	5.1	41
25	Characterizing maser polarization: effects of saturation, anisotropic pumping, and hyperfine structure. <i>Astronomy and Astrophysics</i> , 2019, 628, A14.	5.1	10
26	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
27	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
28	The Synergy between VLBI and Gaia astrometry. , 2019, , .		3
29	Characterization of methanol as a magnetic field tracer in star-forming regions. <i>Nature Astronomy</i> , 2018, 2, 145-150.	10.1	23
30	Updates on the Ultraviolet Emission from Asymptotic Giant Branch Stars. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 474-475.	0.0	0
31	The Impact of UV Radiation on Circumstellar Chemistry. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 191-195.	0.0	1
32	Imaging the dust and the gas around Mira using ALMA and SPHERE/ZIMPOL. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 31-35.	0.0	0
33	Magnetic fields of AGB and post-AGB stars. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 19-26.	0.0	0
34	A search for radio emission from exoplanets around evolved stars. <i>Astronomy and Astrophysics</i> , 2018, 612, A52.	5.1	21
35	Magnetic fields at the onset of high-mass star formation. <i>Astronomy and Astrophysics</i> , 2018, 614, A64.	5.1	23
36	Magnetic field in a young circumbinary disk. <i>Astronomy and Astrophysics</i> , 2018, 616, A56.	5.1	52

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37	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
38	Deep into the Water Fountains. <i>Astronomy and Astrophysics</i> , 2017, 601, A68.	5.1	5
39	A Catalog of GALEX Ultraviolet Emission from Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2017, 841, 33.	4.5	33
40	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
41	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
42	The shock-heated atmosphere of an asymptotic giant branch star resolved by ALMA. <i>Nature Astronomy</i> , 2017, 1, 848-853.	10.1	28
43	Molecular outflow launched beyond the disk edge. <i>Astronomy and Astrophysics</i> , 2017, 603, L3.	5.1	47
44	Quantum-Chemical calculations revealing the effects of magnetic fields on methanol masers. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 23-26.	0.0	0
45	Submillimeter H ₂ O maser emission from water fountain nebulae. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 369-372.	0.0	0
46	Maser Polarization. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 27-32.	0.0	0
47	ALMA Compact Array observations of the Fried Egg nebula. <i>Astronomy and Astrophysics</i> , 2017, 597, A99.	5.1	5
48	Detection of thermal radio emission from a single coronal giant. <i>Astronomy and Astrophysics</i> , 2017, 599, A47.	5.1	5
49	ALMA observations of TiO ₂ around VY CMa. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022009.	0.4	2
50	An ALMA view of the post-AGB object HD 101584. <i>Journal of Physics: Conference Series</i> , 2016, 728, 042005.	0.4	1
51	LINEAR POLARIZATION OF CLASS I METHANOL MASERS IN MASSIVE STAR-FORMING REGIONS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 17.	7.7	15
52	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
53	THE 2014 ALMA LONG BASELINE CAMPAIGN: AN OVERVIEW. <i>Astrophysical Journal Letters</i> , 2015, 808, L1.	8.3	90
54	ALMA observations of TiO ₂ around VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2015, 580, A36.	5.1	27

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55	ALMA observations of $\hat{\pm}$ Centauri. <i>Astronomy and Astrophysics</i> , 2015, 573, L4.	5.1	33
56	Simplified models of stellar wind anatomy for interpreting high-resolution data. <i>Astronomy and Astrophysics</i> , 2015, 579, A118.	5.1	18
57	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
58	3D Models of Symbiotic Binaries. <i>EAS Publications Series</i> , 2015, 71-72, 81-86.	0.3	1
59	Revisiting the birth locations of pulsars B1929+10, B2020+28, and B2021+51. <i>Astronomy and Astrophysics</i> , 2015, 577, A111.	5.1	29
60	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
61	A strong magnetic field in the jet base of a supermassive black hole. <i>Science</i> , 2015, 348, 311-314.	12.6	61
62	Temporal evolution of the size and temperature of Betelgeuse's extended atmosphere. <i>Astronomy and Astrophysics</i> , 2015, 580, A101.	5.1	16
63	Magnetic Fields with the Atacama Large Millimeter/Submillimeter Array. <i>Astrophysics and Space Science Library</i> , 2015, , 19-37.	2.7	0
64	<i>Herschel</i> Planetary Nebula Survey (HerPlaNS). <i>Astronomy and Astrophysics</i> , 2014, 566, A79.	5.1	18
65	ALMA sub-mm maser and dust distribution of VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2014, 572, L9.	5.1	35
66	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
67	The <i>Herschel</i> Planetary Nebula Survey (HerPlaNS). <i>Astronomy and Astrophysics</i> , 2014, 565, A36.	5.1	25
68	The European ALMA Regional Centre: a model of user support. , 2014, , .		1
69	Silicon isotopic abundance toward evolved stars and its application for presolar grains. <i>Astronomy and Astrophysics</i> , 2013, 559, L8.	5.1	8
70	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
71	SHOOTING STARS Masers from red giants. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 292-293.	0.0	0
72	Maser polarization with ALMA. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 64-68.	0.0	0

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73	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
74	The magnetic field of IRAS 16293-2422 as traced by shock-induced H ₂ O masers. Proceedings of the International Astronomical Union, 2012, 8, 74-78.	0.0	0
75	Methanol masers and millimetre lines: a common origin in protostellar envelopes. Proceedings of the International Astronomical Union, 2012, 8, 146-150.	0.0	0
76	TWINKLING STARS The disappearing SiO masers of W Aql. Proceedings of the International Astronomical Union, 2012, 8, 260-261.	0.0	1
77	Magnetic fields during the evolution towards planetary nebulae. Proceedings of the International Astronomical Union, 2011, 7, 176-179.	0.0	4
78	On the magnetic field of OH 231.8+4.2. Proceedings of the International Astronomical Union, 2011, 7, 418-419.	0.0	0
79	H ₂ O maser polarization of the water fountains IRAS 15445-5449 and IRAS 18043-2116. Proceedings of the International Astronomical Union, 2011, 7, 474-475.	0.0	0
80	A wide-angle outflow with the simultaneous presence of a high-velocity jet in the high-mass Cepheus A HW2 system. Monthly Notices of the Royal Astronomical Society, 2011, 410, 627-640.	4.4	66
81	The kinematics and magnetic fields in water-fountain sources based on OH maser observations. Astronomy and Astrophysics, 2011, 532, A149.	5.1	13
82	Adaptable Radiative Transfer Innovations for Submillimeter Telescopes (ARTIST). Proceedings of the International Astronomical Union, 2010, 6, 451-454.	0.0	2
83	The magnetic field of the evolved star W43A. Astronomy and Astrophysics, 2010, 509, A26.	5.1	18
84	An Eccentric Binary Millisecond Pulsar in the Galactic Plane. Science, 2008, 320, 1309-1312.	12.6	152
85	The magnetic field of the evolved star W43A. Proceedings of the International Astronomical Union, 2008, 4, 109-110.	0.0	0
86	The Discovery of an Eccentric Millisecond Pulsar in the Galactic Plane. AIP Conference Proceedings, 2008, , .	0.4	1
87	Turbulent, steamy red supergiant winds. Proceedings of the International Astronomical Union, 2007, 3, 261-265.	0.0	2
88	Radio pulsars and transients in the Galactic center. Journal of Physics: Conference Series, 2006, 54, 110-114.	0.4	2
89	A magnetically collimated jet from an evolved star. Nature, 2006, 440, 58-60.	27.8	116
90	Arecibo and the ALFA Pulsar Survey. Research in Astronomy and Astrophysics, 2006, 6, 311-318.	1.1	2

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91	Arecibo Pulsar Survey Using ALFA. I. Survey Strategy and First Discoveries. <i>Astrophysical Journal</i> , 2006, 637, 446-455.	4.5	205
92	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
93	Further VLBA observations of SiO masers toward Mira variable stars. <i>Astronomy and Astrophysics</i> , 2006, 456, 339-350.	5.1	46
94	VLBA observations of SiO masers towards Mira variable stars. <i>Astronomy and Astrophysics</i> , 2004, 414, 275-288.	5.1	88
95	Circular polarization of circumstellar water masers around S Per. <i>Astronomy and Astrophysics</i> , 2001, 375, L1-L4.	5.1	26