

Joris Pw Verbiest

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

11,499
citations

53794

45
h-index

79698

73
g-index

80
all docs

80
docs citations

80
times ranked

6755
citing authors

#	ARTICLE	IF	CITATIONS
1	A Massive Pulsar in a Compact Relativistic Binary. <i>Science</i> , 2013, 340, 448, 1233232.	12.6	2,890
2	LOFAR: The LOw-Frequency ARray. <i>Astronomy and Astrophysics</i> , 2013, 556, A2.	5.1	1,755
3	The International Pulsar Timing Array project: using pulsars as a gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2010, 27, 084013.	4.0	494
4	European Pulsar Timing Array limits on an isotropic stochastic gravitational-wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2577-2599.	4.4	380
5	High-precision timing of 42 millisecond pulsars with the European Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3341-3380.	4.4	351
6	The Parkes Pulsar Timing Array Project. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	3.4	350
7	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	4.4	332
8	Upper Bounds on the Low-Frequency Stochastic Gravitational Wave Background from Pulsar Timing Observations: Current Limits and Future Prospects. <i>Astrophysical Journal</i> , 2006, 653, 1571-1576.	4.5	289
9	On the nature and evolution of the unique binary pulsar J1903+0327. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2763-2780.	4.4	237
10	Precision Timing of PSR J0437 \hat{a} 4715: An Accurate Pulsar Distance, a High Pulsar Mass, and a Limit on the Variation of Newton's Gravitational Constant. <i>Astrophysical Journal</i> , 2008, 679, 675-680.	4.5	229
11	Placing limits on the stochastic gravitational-wave background using European Pulsar Timing Array data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 3117-3128.	4.4	207
12	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4970-4993.	4.4	184
13	Timing stability of millisecond pulsars and prospects for gravitational-wave detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 951-968.	4.4	178
14	Gravitational Wave Astronomy with the SKA. , 2015, , .		174
15	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4873-4887.	4.4	174
16	The pulsar spectral index distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1352-1358.	4.4	168
17	Development of a pulsar-based time-scale. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 2780-2787.	4.4	163
18	ON PULSAR DISTANCE MEASUREMENTS AND THEIR UNCERTAINTIES. <i>Astrophysical Journal</i> , 2012, 755, 39.	4.5	152

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19	European Pulsar Timing Array limits on continuous gravitational waves from individual supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1665-1679.	4.4	149
20	Pulsar timing analysis in the presence of correlated noise. Monthly Notices of the Royal Astronomical Society, 2011, 418, 561-570.	4.4	140
21	Gravitational-Wave Limits from Pulsar Timing Constrain Supermassive Black Hole Evolution. Science, 2013, 342, 334-337.	12.6	133
22	Dispersion measure variations and their effect on precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2007, 378, 493-506.	4.4	121
23	MEASURING THE MASS OF SOLAR SYSTEM PLANETS USING PULSAR TIMING. Astrophysical Journal Letters, 2010, 720, L201-L205.	8.3	112
24	Extremely High Precision VLBI Astrometry of PSR J0437-4715 and Implications for Theories of Gravity. Astrophysical Journal, 2008, 685, L67-L70.	4.5	101
25	A LOFAR census of non-recycled pulsars: average profiles, dispersion measures, flux densities, and spectra. Astronomy and Astrophysics, 2016, 591, A134.	5.1	96
26	Prospects for high-precision pulsar timing with the new Effelsberg PSRIX backend. Monthly Notices of the Royal Astronomical Society, 2016, 458, 868-880.	4.4	96
27	The Northern High Time Resolution Universe pulsar survey $\hat{\alpha}^{\text{I}}$. Setup and initial discoveries. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2234-2245.	4.4	91
28	The sensitivity of the Parkes Pulsar Timing Array to individual sources of gravitational waves. Monthly Notices of the Royal Astronomical Society, 2010, 407, 669-680.	4.4	89
29	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2161-2187.	4.4	82
30	Gravitational-Wave Detection Using Pulsars: Status of the Parkes Pulsar Timing Array Project. Publications of the Astronomical Society of Australia, 2009, 26, 103-109.	3.4	79
31	A LOFAR census of millisecond pulsars. Astronomy and Astrophysics, 2016, 585, A128.	5.1	78
32	Wide-band simultaneous observations of pulsars: disentangling dispersion measure and profile variations. Astronomy and Astrophysics, 2012, 543, A66.	5.1	76
33	Tests of gravitational symmetries with pulsar binary J1713+0747. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3249-3260.	4.4	73
34	Polarization observations of 20 millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2087-2100.	4.4	69
35	Low-frequency Faraday rotation measures towards pulsars using LOFAR: probing the 3D Galactic halo magnetic field. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3646-3664.	4.4	69
36	Pulsar polarisation below 200 MHz: Average profiles and propagation effects. Astronomy and Astrophysics, 2015, 576, A62.	5.1	68

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37	tempo2: a new pulsar timing package - III. Gravitational wave simulation. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1945-1955.	4.4	62
38	A glitch in the millisecond pulsar J0613+0200. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2809-2817.	4.4	60
39	Prospects for high-precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2916-2926.	4.4	58
40	Measuring pulse times of arrival from broad-band pulsar observations. Monthly Notices of the Royal Astronomical Society, 2014, 443, 3752-3760.	4.4	56
41	SCATTERING OF PULSAR RADIO EMISSION BY THE INTERSTELLAR PLASMA. Astrophysical Journal, 2010, 717, 1206-1221.	4.5	54
42	On detection of the stochastic gravitational-wave background using the Parkes pulsar timing array. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1777-1787.	4.4	54
43	The noise properties of 42 millisecond pulsars from the European Pulsar Timing Array and their impact on gravitational-wave searches. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4421-4440.	4.4	48
44	Limits on Anisotropy in the Nanohertz Stochastic Gravitational Wave Background. Physical Review Letters, 2015, 115, 041101.	7.8	47
45	Evidence for gravitational quadrupole moment variations in the companion of PSR J2051+0827. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3134-3144.	4.4	46
46	Pulsar searches of Fermi unassociated sources with the Effelsberg telescope. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1633-1642.	4.4	46
47	A millisecond pulsar in an extremely wide binary system. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2207-2222.	4.4	41
48	A 24 HR GLOBAL CAMPAIGN TO ASSESS PRECISION TIMING OF THE MILLISECOND PULSAR J1713+0747. Astrophysical Journal, 2014, 794, 21.	4.5	37
49	21-year timing of the black-widow pulsar J2051+0827. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1029-1038.	4.4	36
50	Studying the Solar system with the International Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5501-5516.	4.4	36
51	First detection of frequency-dependent, time-variable dispersion measures. Astronomy and Astrophysics, 2019, 624, A22.	5.1	34
52	Noise analysis in the European Pulsar Timing Array data release 2 and its implications on the gravitational-wave background search. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5538-5558.	4.4	28
53	Measurement uncertainty in pulsar timing array experiments. Classical and Quantum Gravity, 2018, 35, 133001.	4.0	27
54	Status update of the Parkes pulsar timing array. Classical and Quantum Gravity, 2010, 27, 084015.	4.0	26

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55	On the usefulness of existing solar wind models for pulsar timing corrections. Monthly Notices of the Royal Astronomical Society, 2019, 487, 394-408.	4.4	25
56	Dispersion measure variability for 36 millisecond pulsars at 150 MHz with LOFAR. Astronomy and Astrophysics, 2020, 644, A153.	5.1	23
57	Detection and Timing of Gamma-Ray Pulsations from the 707 Hz Pulsar J0952+0607. Astrophysical Journal, 2019, 883, 42.	4.5	22
58	Low-frequency spectral turn-overs in millisecond pulsars studied from imaging observations. Monthly Notices of the Royal Astronomical Society, 2015, 453, 828-836.	4.4	20
59	The impact of solar wind variability on pulsar timing. Astronomy and Astrophysics, 2021, 647, A84.	5.1	20
60	Low-frequency pulse profile variation in PSR B2217+47: evidence for echoes from the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2704-2716.	4.4	19
61	Testing the accuracy of the ionospheric Faraday rotation corrections through LOFAR observations of bright northern pulsars. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4100-4113.	4.4	19
62	Lutz-Kelker bias in pulsar parallax measurements. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	18
63	Why the distance of PSR J0218+4232 does not challenge pulsar emission theories. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1859-1861.	4.4	12
64	Discovery and modelling of broad-scale plasma lensing in black-widow pulsar J2051+0827. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2824-2835.	4.4	12
65	Dual-frequency single-pulse study of PSR B0950+08. Astronomy and Astrophysics, 2022, 658, A143.	5.1	12
66	Single-Source Gravitational Wave Limits From the J1713+0747 24-hr Global Campaign. Journal of Physics: Conference Series, 2016, 716, 012014.	0.4	9
67	Pulsars with NenuFAR: Backend and pipelines. Astronomy and Astrophysics, 2021, 652, A34.	5.1	9
68	The LOFAR Tied-Array All-Sky Survey (LOTAAS): Characterization of 20 pulsar discoveries and their single-pulse behavior. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	8
69	Timing stability of three black widow pulsars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2591-2599.	4.4	7
70	Pulsar Timing Array Experiments. , 2021, , 1-42.		7
71	Limits on the mass, velocity and orbit of PSR J1933+6211. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4579-4586.	4.4	6
72	The impact of a stochastic gravitational-wave background on pulsar timing parameters. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2318-2329.	4.4	3

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73	PSR J1141â€“6545: A POWERFUL LABORATORY OF GR AND TENSOR-SCALAR THEORIES OF GRAVITY. , 2012, , .		3
74	Multifrequency behaviour of the anomalous events of PSR J0922+0638. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L25-L29.	3.3	2
75	Evolution of the low-frequency pulse profile of PSR B2217+47. Proceedings of the International Astronomical Union, 2017, 13, 291-294.	0.0	1
76	The effect of the Solar wind on low-frequency observations of pulsars. Proceedings of the International Astronomical Union, 2017, 13, 279-282.	0.0	1
77	Pulsar Timing Array Experiments. , 2022, , 157-198.		1
78	Using pulsars to limit the existence of a gravitational wave background. AIP Conference Proceedings, 2008, , .	0.4	0
79	Measuring the mass of solar system planets using pulsar timing. , 2011, , .		0