

# Rene Spiewak

## List of Publications by Citations

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71  
papers

2,724  
citations

23  
h-index

51  
g-index

75  
ext. papers

4,101  
ext. citations

5.6  
avg, IF

4.39  
L-index

#	Paper	IF	Citations
71	Relativistic Shapiro delay measurements of an extremely massive millisecond pulsar. <i>Nature Astronomy</i> , <b>2020</b> , 4, 72-76	12.1	588
70	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 235, 37	8	295
69	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 458, 1267-1288	4.3	239
68	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 47	4.7	209
67	The NANOGrav 12.5yr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 905, L34	7.9	162
66	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 490, 4666-4687	4.3	107
65	Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	82
64	Faint Repetitions from a Bright Fast Radio Burst Source. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 887, L30	7.9	74
63	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 116	4.7	58
62	The Parkes Pulsar Timing Array project: second data release. <i>Publications of the Astronomical Society of Australia</i> , <b>2020</b> , 37,	5.5	57
61	The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. <i>Publications of the Astronomical Society of Australia</i> , <b>2020</b> , 37,	5.5	47
60	The Green Bank North Celestial Cap Pulsar Survey. III. 45 New Pulsar Timing Solutions. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 93	4.7	46
59	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	40
58	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , <b>2021</b> , 252, 4	8	38
57	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 132	4.7	33
56	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , <b>2021</b> , 252, 5	8	31
55	Commensal discovery of four fast radio bursts during Parkes Pulsar Timing Array observations. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 488, 868-875	4.3	30

54	On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 917, L19	7.9	30
53	PSR J10240719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. <i>Astrophysical Journal</i> , <b>2016</b> , 826, 86	4.7	29
52	ORDINARY X-RAYS FROM THREE EXTRAORDINARY MILLISECOND PULSARS: XMM-NEWTON OBSERVATIONS OF PSRs J0337+1715, J0636+5129, AND J0645+5158. <i>Astrophysical Journal</i> , <b>2016</b> , 822, 37	4.7	29
51	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 5501-5516	4.3	24
50	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. <i>Astrophysical Journal</i> , <b>2020</b> , 893, 112	4.7	23
49	THE DISTURBANCE OF A MILLISECOND PULSAR MAGNETOSPHERE. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 828, L1	7.9	23
48	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , <b>2020</b> , 889, 38	4.7	22
47	A pulsar-based time-scale from the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 491, 5951-5965	4.3	21
46	Which bright fast radio bursts repeat?. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 495, 2416-2427	4.3	20
45	The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 193	4.7	19
44	The Thousand-Pulsar-Array programme on MeerKAT II. Science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 3608-3615	4.3	19
43	Identifying and mitigating noise sources in precision pulsar timing data sets. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 502, 478-493	4.3	19
42	PSR J2234+0611: A New Laboratory for Stellar Evolution. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 74	4.7	17
41	Comparison of pulsar positions from timing and very long baseline astrometry. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, 425-434	4.3	16
40	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 150	4.7	15
39	Versatile directional searches for gravitational waves with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 455, 3662-3673	4.3	15
38	PSR J23220650: A low-luminosity millisecond pulsar with a planetary-mass companion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 469-477	4.3	14
37	Wide-band profile domain pulsar timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 466, 3706-3727	4.3	14

36	Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437 <del>B</del> 715. <i>Astrophysical Journal</i> , <b>2020</b> , 904, 104	4-7	14
35	High-precision X-Ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 160	4-7	13
34	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , <b>2020</b> , 890, 108	4-7	13
33	The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 47	4-7	13
32	Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 102	4-7	12
31	Eight new millisecond pulsars from the first MeerKAT globular cluster census. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 1407-1426	4-3	10
30	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 251302	7-4	9
29	First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey. <i>Astrophysical Journal</i> , <b>2020</b> , 904, 92	4-7	9
28	The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , <b>2018</b> , 868, 122	4-7	9
27	The Green Bank North Celestial Cap Pulsar Survey. V. Pulsar Census and Survey Sensitivity. <i>Astrophysical Journal</i> , <b>2020</b> , 892, 76	4-7	8
26	The Green Bank Northern Celestial Cap Pulsar Survey. II. The Discovery and Timing of 10 Pulsars. <i>Astrophysical Journal</i> , <b>2018</b> , 857, 131	4-7	8
25	The relativistic binary programme on MeerKAT: science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 2094-2114	4-3	8
24	Searching for gravitational-wave bursts from cosmic string cusps with the Parkes Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 501, 701-712	4-3	7
23	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. <i>Astrophysical Journal</i> , <b>2021</b> , 914, 121	4-7	7
22	Measurements of pulse jitter and single-pulse variability in millisecond pulsars using MeerKAT. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 502, 407-422	4-3	7
21	The Parkes pulsar timing array second data release: timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 2137-2153	4-3	6
20	The dynamics of Galactic centre pulsars: constraining pulsar distances and intrinsic spin-down. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 1025-1039	4-3	5
19	Giant pulses from J1823 <del>B</del> 021A observed with the MeerKAT telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 875-882	4-3	5

18	The Thousand-Pulsar-Array programme on MeerKAT IV. Scattering analysis of single-component pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 1115-1128	4.3	5
17	The Green Bank North Celestial Cap Pulsar Survey. IV. Four New Timing Solutions. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 19	4.7	4
16	The SURvey for pulsars and extragalactic radio bursts V: recent discoveries and full timing solutions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 496, 4836-4848	4.3	4
15	The thousand-pulsar-array programme on MeerKAT IV: Polarization properties of young, energetic pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 4483-4495	4.3	4
14	The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 893, L8	7.9	4
13	Measurement of the Rate Distribution of the Population of Repeating Fast Radio Bursts: Implications for Progenitor Models. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 895, L22	7.9	3
12	Constraining Cosmological Phase Transitions with the Parkes Pulsar Timing Array.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 251303	7.4	3
11	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 923, L22	7.9	3
10	The Thousand-Pulsar-Array programme on MeerKAT III. Observing strategy for pulsar monitoring with subarrays. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 4456-4467	4.3	2
9	High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array. <i>Physical Review Research</i> , <b>2022</b> , 4,	3.9	2
8	The thousand-pulsar-array programme on MeerKAT VII: polarisation properties of pulsars in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 509, 5209-5217	4.3	2
7	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. <i>Astrophysical Journal</i> , <b>2021</b> , 917, 10	4.7	1
6	Timing observations of three Galactic millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 5303-5309	4.3	1
5	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background.. <i>Science</i> , <b>2022</b> , 376, eabm3231	33.3	1
4	The Green Bank Northern Celestial Cap Pulsar Survey. VI. Discovery and Timing of PSR J1759+5036: A Double Neutron Star Binary Pulsar. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 35	4.7	0
3	The NANOGrav 12.5 yr Data Set: Polarimetry and Faraday Rotation Measures from Observations of Millisecond Pulsars with the Green Bank Telescope. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 168	4.7	0
2	Mode changing in J1909+744: the most precisely timed pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2022</b> , 510, 5908-5915	4.3	0
1	Bayesian Solar Wind Modeling with Pulsar Timing Arrays. <i>Astrophysical Journal</i> , <b>2022</b> , 929, 39	4.7	0

