

RenÅ©e Spiewak

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

5,505
citations

147801

31
h-index

76900

74
g-index

75
all docs

75
docs citations

75
times ranked

3656
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Relativistic Shapiro delay measurements of an extremely massive millisecond pulsar. <i>Nature Astronomy</i> , 2020, 4, 72-76. | 10.1 | 1,065 |
| 2 | The NANOGrav 12.5-yr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2020, 905, L34. | 8.3 | 528 |
| 3 | The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 37. | 7.7 | 448 |
| 4 | The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288. | 4.4 | 332 |
| 5 | The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , 2018, 859, 47. | 4.5 | 331 |
| 6 | 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> , 2021, 917, L19. | 8.3 | 217 |
| 7 | The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687. | 4.4 | 191 |
| 8 | 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 |
| 9 | Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , 2016, 6, . | 8.9 | 113 |
| 10 | The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, . | 3.4 | 108 |
| 11 | The Parkes Pulsar Timing Array project: second data release. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, . | 3.4 | 107 |
| 12 | The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. <i>Astrophysical Journal</i> , 2019, 880, 116. | 4.5 | 102 |
| 13 | The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 4. | 7.7 | 98 |
| 14 | Faint Repetitions from a Bright Fast Radio Burst Source. <i>Astrophysical Journal Letters</i> , 2019, 887, L30. | 8.3 | 94 |
| 15 | Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , 2018, 98, . | 4.7 | 72 |
| 16 | The Green Bank North Celestial Cap Pulsar Survey. III. 45 New Pulsar Timing Solutions. <i>Astrophysical Journal</i> , 2018, 859, 93. | 4.5 | 72 |
| 17 | The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 5. | 7.7 | 64 |
| 18 | Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset. <i>Physical Review Letters</i> , 2021, 127, 251302. | 7.8 | 62 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , 2018, 861, 132. | 4.5 | 51 |
| 20 | A pulsar-based time-scale from the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5951-5965. | 4.4 | 51 |
| 21 | Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. <i>Astrophysical Journal</i> , 2020, 893, 112. | 4.5 | 49 |
| 22 | Identifying and mitigating noise sources in precision pulsar timing data sets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 478-493. | 4.4 | 47 |
| 23 | Eight new millisecond pulsars from the first MeerKAT globular cluster census. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1407-1426. | 4.4 | 47 |
| 24 | PSR J1024+0719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. <i>Astrophysical Journal</i> , 2016, 826, 86. | 4.5 | 45 |
| 25 | Constraining Cosmological Phase Transitions with the Parkes Pulsar Timing Array. <i>Physical Review Letters</i> , 2021, 127, 251303. | 7.8 | 40 |
| 26 | Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437+4715. <i>Astrophysical Journal</i> , 2020, 904, 104. | 4.5 | 39 |
| 27 | ORDINARY X-RAYS FROM THREE EXTRAORDINARY MILLISECOND PULSARS: XMM-NEWTON OBSERVATIONS OF PSRs J0337+1715, J0636+5129, AND J0645+5158. <i>Astrophysical Journal</i> , 2016, 822, 37. | 4.5 | 38 |
| 28 | The Parkes pulsar timing array second data release: timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2137-2153. | 4.4 | 37 |
| 29 | Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5501-5516. | 4.4 | 36 |
| 30 | The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , 2020, 889, 38. | 4.5 | 36 |
| 31 | THE DISTURBANCE OF A MILLISECOND PULSAR MAGNETOSPHERE. <i>Astrophysical Journal Letters</i> , 2016, 828, L1. | 8.3 | 33 |
| 32 | Which bright fast radio bursts repeat?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2416-2427. | 4.4 | 33 |
| 33 | PSR J2234+0611: A New Laboratory for Stellar Evolution. <i>Astrophysical Journal</i> , 2019, 870, 74. | 4.5 | 32 |
| 34 | Commensal discovery of four fast radio bursts during Parkes Pulsar Timing Array observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 868-875. | 4.4 | 31 |
| 35 | The Thousand-Pulsar-Array programme on MeerKAT – I. Science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3608-3615. | 4.4 | 30 |
| 36 | Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. <i>Astrophysical Journal</i> , 2020, 900, 102. | 4.5 | 30 |

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|----|--|-----|-----------|
| 37 | The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2021, 923, L22. | 8.3 | 30 |
| 38 | The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. <i>Astrophysical Journal</i> , 2019, 872, 193. | 4.5 | 28 |
| 39 | The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , 2020, 890, 108. | 4.5 | 28 |
| 40 | The relativistic binary programme on MeerKAT: science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2094-2114. | 4.4 | 27 |
| 41 | PSR J2322+2650 – a low-luminosity millisecond pulsar with a planetary-mass companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 469-477. | 4.4 | 25 |
| 42 | The Green Bank North Celestial Cap Pulsar Survey. V. Pulsar Census and Survey Sensitivity. <i>Astrophysical Journal</i> , 2020, 892, 76. | 4.5 | 25 |
| 43 | Measurements of pulse jitter and single-pulse variability in millisecond pulsars using MeerKAT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 407-422. | 4.4 | 25 |
| 44 | The MeerTime Pulsar Timing Array: A census of emission properties and timing potential. <i>Publications of the Astronomical Society of Australia</i> , 2022, 39, . | 3.4 | 24 |
| 45 | The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. <i>Astrophysical Journal</i> , 2019, 872, 150. | 4.5 | 22 |
| 46 | The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. <i>Astrophysical Journal</i> , 2021, 914, 121. | 4.5 | 21 |
| 47 | First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey. <i>Astrophysical Journal</i> , 2020, 904, 92. | 4.5 | 21 |
| 48 | Comparison of pulsar positions from timing and very long baseline astrometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 425-434. | 4.4 | 20 |
| 49 | High-precision X-Ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio. <i>Astrophysical Journal</i> , 2019, 874, 160. | 4.5 | 20 |
| 50 | The thousand-pulsar-array programme on MeerKAT IV: Polarization properties of young, energetic pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4483-4495. | 4.4 | 20 |
| 51 | The Thousand-Pulsar-Array programme on MeerKAT – VI. Pulse widths of a large and diverse sample of radio pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , . | 4.4 | 19 |
| 52 | The Thousand-Pulsar-Array programme on MeerKAT – V. Scattering analysis of single-component pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1115-1128. | 4.4 | 19 |
| 53 | Wide-band profile domain pulsar timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3706-3727. | 4.4 | 18 |
| 54 | The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. <i>Astrophysical Journal</i> , 2018, 862, 47. | 4.5 | 18 |

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|----|---|------|-----------|
| 55 | Versatile directional searches for gravitational waves with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3662-3673. | 4.4 | 17 |
| 56 | High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array. <i>Physical Review Research</i> , 2022, 4, . | 3.6 | 16 |
| 57 | The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , 2018, 868, 122. | 4.5 | 15 |
| 58 | The Green Bank Northern Celestial Cap Pulsar Survey. II. The Discovery and Timing of 10 Pulsars. <i>Astrophysical Journal</i> , 2018, 857, 131. | 4.5 | 14 |
| 59 | Searching for gravitational-wave bursts from cosmic string cusps with the Parkes Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 701-712. | 4.4 | 14 |
| 60 | 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> , 2021, 922, 35. | 4.5 | 14 |
| 61 | A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background. <i>Science</i> , 2022, 376, 521-523. | 12.6 | 14 |
| 62 | Mode changing in J1909+3744: the most precisely timed pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 5908-5915. | 4.4 | 13 |
| 63 | Giant pulses from J1823+3021A observed with the MeerKAT telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 875-882. | 4.4 | 12 |
| 64 | 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> , 2022, 926, 168. | 4.5 | 9 |
| 65 | The Green Bank North Celestial Cap Pulsar Survey. IV. Four New Timing Solutions. <i>Astrophysical Journal</i> , 2019, 875, 19. | 4.5 | 8 |
| 66 | The SURvey for pulsars and extragalactic radio bursts V: recent discoveries and full timing solutions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 4836-4848. | 4.4 | 8 |
| 67 | Measurement of the Rate Distribution of the Population of Repeating Fast Radio Bursts: Implications for Progenitor Models. <i>Astrophysical Journal Letters</i> , 2020, 895, L22. | 8.3 | 8 |
| 68 | Bayesian Solar Wind Modeling with Pulsar Timing Arrays. <i>Astrophysical Journal</i> , 2022, 929, 39. | 4.5 | 8 |
| 69 | The dynamics of Galactic centre pulsars: constraining pulsar distances and intrinsic spin-down. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1025-1039. | 4.4 | 7 |
| 70 | The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. <i>Astrophysical Journal</i> , 2021, 917, 10. | 4.5 | 7 |
| 71 | Discoveries and timing of pulsars in NGC 6440. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1386-1399. | 4.4 | 7 |
| 72 | The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 893, L8. | 8.3 | 6 |

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|----|---|-----|-----------|
| 73 | The Thousand-Pulsar-Array programme on MeerKAT â€“ II. Observing strategy for pulsar monitoring with subarrays. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4456-4467. | 4.4 | 6 |
| 74 | Timing observations of three Galactic millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5303-5309. | 4.4 | 5 |
| 75 | The thousand-pulsar-array programme on MeerKAT VII: polarisation properties of pulsars in the Magellanic Clouds. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5209-5217. | 4.4 | 4 |