

Evan F Keane

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

9,131
citations

46918

47
h-index

40881

93
g-index

104
all docs

104
docs citations

104
times ranked

9875
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12. | 3.0 | 2,805 |
| 2 | FRBCAT: The Fast Radio Burst Catalogue. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, . | 1.3 | 420 |
| 3 | A strong magnetic field around the supermassive black hole at the centre of the Galaxy. <i>Nature</i> , 2013, 501, 391-394. | 13.7 | 340 |
| 4 | The host galaxy of a fast radio burst. <i>Nature</i> , 2016, 530, 453-456. | 13.7 | 241 |
| 5 | A real-time fast radio burst: polarization detection and multiwavelength follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 246-255. | 1.6 | 236 |
| 6 | A state change in the low-mass X-ray binary XSSAJ12270 ⁺ 4859. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1825-1830. | 1.6 | 211 |
| 7 | On the origin of a highly dispersed coherent radio burst. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 425, L71-L75. | 1.2 | 200 |
| 8 | The magnetic field and turbulence of the cosmic web measured using a brilliant fast radio burst. <i>Science</i> , 2016, 354, 1249-1252. | 6.0 | 167 |
| 9 | Possible periodic activity in the repeating FRB 121102. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3551-3558. | 1.6 | 165 |
| 10 | The SURvey for Pulsars and Extragalactic Radio Bursts â€“ II. New FRB discoveries and their follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1427-1446. | 1.6 | 156 |
| 11 | On the birthrates of Galactic neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 2009-2016. | 1.6 | 150 |
| 12 | Rotating Radio Transients: new discoveries, timing solutions and musings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3065-3080. | 1.6 | 148 |
| 13 | Fast radio bursts: search sensitivities and completeness. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2852-2856. | 1.6 | 148 |
| 14 | Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, . | 1.3 | 142 |
| 15 | Spectral properties of 441 radio pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4436-4458. | 1.6 | 135 |
| 16 | DISCOVERY OF PSR J1227 ⁺ 4853: A TRANSITION FROM A LOW-MASS X-RAY BINARY TO A REDBACK MILLISECOND PULSAR. <i>Astrophysical Journal Letters</i> , 2015, 800, L12. | 3.0 | 122 |
| 17 | Synchronous X-ray and Radio Mode Switches: A Rapid Global Transformation of the Pulsar Magnetosphere. <i>Science</i> , 2013, 339, 436-439. | 6.0 | 116 |
| 18 | The first interferometric detections of fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3746-3756. | 1.6 | 115 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Advancing Astrophysics with the Square Kilometre Array. , 2015, , . | | 114 |
| 20 | FRB microstructure revealed by the real-time detection of FRB170827. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1209-1217. | 1.6 | 107 |
| 21 | A HIGH BRAKING INDEX FOR A PULSAR. Astrophysical Journal Letters, 2016, 819, L16. | 3.0 | 102 |
| 22 | The European Pulsar Timing Array: current efforts and a LEAP toward the future. Classical and Quantum Gravity, 2010, 27, 084014. | 1.5 | 101 |
| 23 | Further searches for Rotating Radio Transients in the Parkes Multi-beam Pulsar Survey. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1057-1068. | 1.6 | 96 |
| 24 | A LOFAR census of non-recycled pulsars: average profiles, dispersion measures, flux densities, and spectra. Astronomy and Astrophysics, 2016, 591, A134. | 2.1 | 96 |
| 25 | The LOFAR pilot surveys for pulsars and fast radio transients. Astronomy and Astrophysics, 2014, 570, A60. | 2.1 | 89 |
| 26 | Pulsar spin-velocity alignment: kinematic ages, birth periods and braking indices. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2281-2301. | 1.6 | 86 |
| 27 | Limits on fast radio bursts at 145 MHz with artemis, a real-time software backend. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1254-1262. | 1.6 | 82 |
| 28 | The SURvey for Pulsars and Extragalactic Radio Bursts - I. Survey description and overview. Monthly Notices of the Royal Astronomical Society, 2018, 473, 116-135. | 1.6 | 82 |
| 29 | A LOFAR census of millisecond pulsars. Astronomy and Astrophysics, 2016, 585, A128. | 2.1 | 78 |
| 30 | Wide-band simultaneous observations of pulsars: disentangling dispersion measure and profile variations. Astronomy and Astrophysics, 2012, 543, A66. | 2.1 | 76 |
| 31 | LOFAR Discovery of a 23.5 s Radio Pulsar. Astrophysical Journal, 2018, 866, 54. | 1.6 | 76 |
| 32 | A search for optical bursts from the repeating fast radio burst FRB 121102. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2800-2807. | 1.6 | 74 |
| 33 | SPINN: a straightforward machine learning solution to the pulsar candidate selection problem. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1651-1662. | 1.6 | 72 |
| 34 | A survey of FRB fields: limits on repeatability. Monthly Notices of the Royal Astronomical Society, 2015, 454, 457-462. | 1.6 | 71 |
| 35 | Identifying the source of perytons at the Parkes radio telescope. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3933-3940. | 1.6 | 70 |
| 36 | Are the distributions of fast radio burst properties consistent with a cosmological population?. Monthly Notices of the Royal Astronomical Society, 2016, 458, 708-717. | 1.6 | 69 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Low-frequency Faraday rotation measures towards pulsars using LOFAR: probing the 3D Galactic halo magnetic field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3646-3664. | 1.6 | 69 |
| 38 | An interference removal technique for radio pulsar searches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 410-415. | 1.6 | 68 |
| 39 | Pulsar polarisation below 200 MHz: Average profiles and propagation effects. <i>Astronomy and Astrophysics</i> , 2015, 576, A62. | 2.1 | 68 |
| 40 | Fast Radio Transient searches with UTMOST at 843 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 718-725. | 1.6 | 65 |
| 41 | The UTMOST: A Hybrid Digital Signal Processor Transforms the Molonglo Observatory Synthesis Telescope. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, . | 1.3 | 59 |
| 42 | Profile-shape stability and phase-jitter analyses of millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 361-368. | 1.6 | 57 |
| 43 | AN ABSENCE OF FAST RADIO BURSTS AT INTERMEDIATE GALACTIC LATITUDES. <i>Astrophysical Journal Letters</i> , 2014, 789, L26. | 3.0 | 56 |
| 44 | The variability time-scales and brightness temperatures of radio flares from stars to supermassive black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3687-3696. | 1.6 | 55 |
| 45 | The UTMOST pulsar timing programme I: Overview and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3691-3712. | 1.6 | 52 |
| 46 | Lense-Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system. <i>Science</i> , 2020, 367, 577-580. | 6.0 | 51 |
| 47 | A Cosmic Census of Radio Pulsars with the SKA. , 2015, , . | | 51 |
| 48 | The SURvey for Pulsars and Extragalactic Radio Bursts â€” III. Polarization properties of FRBs 160102 and 151230. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2046-2055. | 1.6 | 48 |
| 49 | Timing observations of rotating radio transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1431-1438. | 1.6 | 47 |
| 50 | Unusual glitch activity in the RRAT J1819-1458: an exhausted magnetar?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1439-1444. | 1.6 | 47 |
| 51 | <i>EINSTEIN@HOME</i> DISCOVERY OF 24 PULSARS IN THE PARKES MULTI-BEAM PULSAR SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 93. | 1.6 | 45 |
| 52 | A polarized fast radio burst at low Galactic latitude. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , . | 1.6 | 45 |
| 53 | Optimal periodicity searching: revisiting the fast folding algorithm for large-scale pulsar surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4654-4671. | 1.6 | 43 |
| 54 | The High Time Resolution Universe survey â€” XIV. Discovery of 23 pulsars through GPU-accelerated reprocessing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 3673-3685. | 1.6 | 38 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | LOFAR discovery of a quiet emission mode in PSR B0823+26. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2493-2506. | 1.6 | 36 |
| 56 | Circularly polarized radio emission from the repeating fast radio burst source FRB 20201124A. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3400-3413. | 1.6 | 34 |
| 57 | The future of fast radio burst science. Nature Astronomy, 2018, 2, 865-872. | 4.2 | 33 |
| 58 | A fast radio burst with frequency-dependent polarization detected during Breakthrough Listen observations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3636-3646. | 1.6 | 31 |
| 59 | Detecting highly dispersed bursts with next-generation radio telescopes. Monthly Notices of the Royal Astronomical Society, 2013, 436, 371-379. | 1.6 | 29 |
| 60 | The SURvey for Pulsars and Extragalactic Radio Bursts – IV. Discovery and polarimetry of a 12.1-s radio pulsar. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1165-1177. | 1.6 | 25 |
| 61 | Dispersion measure variability for 36 millisecond pulsars at 150 MHz with LOFAR. Astronomy and Astrophysics, 2020, 644, A153. | 2.1 | 23 |
| 62 | Probing the extragalactic fast transient sky at minute time-scales with DECAM. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5852-5866. | 1.6 | 22 |
| 63 | Differential frequency-dependent delay from the pulsar magnetosphere. Astronomy and Astrophysics, 2013, 552, A61. | 2.1 | 21 |
| 64 | A Decade and a Half of Fast Radio Burst Observations. Universe, 2021, 7, 453. | 0.9 | 21 |
| 65 | The impact of solar wind variability on pulsar timing. Astronomy and Astrophysics, 2021, 647, A84. | 2.1 | 20 |
| 66 | Classifying RRATs and FRBs. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1360-1362. | 1.6 | 19 |
| 67 | Radio light curve of the galaxy possibly associated with FRB 150418. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2143-2150. | 1.6 | 19 |
| 68 | A fast radio burst with a low dispersion measure. Monthly Notices of the Royal Astronomical Society, 0, , . | 1.6 | 18 |
| 69 | Fast Transients at Cosmological Distances with the SKA. , 2015, , . | | 17 |
| 70 | Radio properties of rotating radio transients - I. Searches for periodicities and randomness in pulse arrival times. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1871-1880. | 1.6 | 16 |
| 71 | A long-term study of three rotating radio transients. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4090-4103. | 1.6 | 16 |
| 72 | LOFAR radio search for single and periodic pulses from M 31. Astronomy and Astrophysics, 2020, 634, A3. | 2.1 | 16 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | SIMULTANEOUS X-RAY AND RADIO OBSERVATIONS OF ROTATING RADIO TRANSIENT J1819-1458. <i>Astrophysical Journal</i> , 2013, 776, 104. | 1.6 | 14 |
| 74 | The New Magnetar SGR J1830+0645 in Outburst. <i>Astrophysical Journal Letters</i> , 2021, 907, L34. | 3.0 | 14 |
| 75 | PSR J1840+1419: A VERY COOL NEUTRON STAR. <i>Astrophysical Journal</i> , 2013, 764, 180. | 1.6 | 12 |
| 76 | Optical and radio astrometry of the galaxy associated with FRB 150418. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 463, L36-L40. | 1.2 | 12 |
| 77 | The prospects of pulsar timing with new-generation radio telescopes and the Square Kilometre Array. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170293. | 1.6 | 12 |
| 78 | Radio Properties of Rotating Radio Transients: Single-pulse Spectral and Wait-time Analyses. <i>Astrophysical Journal</i> , 2018, 866, 152. | 1.6 | 12 |
| 79 | Relativistic Spin Precession in the Binary PSR J1141+6545. <i>Astrophysical Journal Letters</i> , 2019, 873, L15. | 3.0 | 11 |
| 80 | The High Time Resolution Universe Pulsar Survey - XV. Completion of the intermediate-latitude survey with the discovery and timing of 25 further pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5791-5801. | 1.6 | 10 |
| 81 | Optical follow-up observation of Fast Radio Burst 151230. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, . | 1.0 | 9 |
| 82 | Limits on absorption from a 332-MHz survey for fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4418-4427. | 1.6 | 9 |
| 83 | Detection of a Glitch in the Pulsar J1709+4429. <i>Research Notes of the AAS</i> , 2018, 2, 139. | 0.3 | 9 |
| 84 | 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. | 1.6 | 8 |
| 85 | Polarization studies of rotating radio transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1191-1199. | 1.6 | 7 |
| 86 | Observing superluminous supernovae and long gamma-ray bursts as potential birthplaces of repeating fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5170-5180. | 1.6 | 6 |
| 87 | LOFAR 144-MHz follow-up observations of GW170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5110-5117. | 1.6 | 6 |
| 88 | The UTMOST survey for magnetars, intermittent pulsars, RRATs, and FRBs - I. System description and overview. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 4752-4767. | 1.6 | 6 |
| 89 | A search for optical bursts from the rotating radio transient J1819+1458 with ULTRACAM - II. Simultaneous ULTRACAM-Lovell Telescope observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 3627-3632. | 1.6 | 5 |
| 90 | First results from the REAL-time Transient Acquisition backend (REALTA) at the Irish LOFAR station. <i>Astronomy and Astrophysics</i> , 2021, 655, A16. | 2.1 | 5 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Timing observations of three Galactic millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5303-5309. | 1.6 | 5 |
| 92 | Unidentified FRBs in Archival Data. Research Notes of the AAS, 2019, 3, 41. | 0.3 | 4 |
| 93 | Pulsar Science with the SKA. Proceedings of the International Astronomical Union, 2017, 13, 158-164. | 0.0 | 3 |
| 94 | A search for optical transients associated with fast radio burst 150418. Publication of the Astronomical Society of Japan, 2018, 70, . | 1.0 | 3 |
| 95 | Constraints on wide-band radiative changes after a glitch in PSR J1452-6036. Monthly Notices of the Royal Astronomical Society, 2021, 504, 406-415. | 1.6 | 3 |
| 96 | The Location of Young Pulsar PSR J0837-2454: Galactic Halo or Local Supernova Remnant?. Astrophysical Journal, 2021, 911, 121. | 1.6 | 2 |
| 97 | Transient Radio Neutron Stars. , 2011, , . | | 2 |
| 98 | Spectrotemporal Analysis of a Sample of Bursts from FRB 121102. Research Notes of the AAS, 2020, 4, 150. | 0.3 | 2 |
| 99 | Multiwavelength Studies of Rotating Radio Transients. , 2011, , . | | 1 |
| 100 | Fast Radio Burst 2020. Nature Astronomy, 2020, 4, 841-842. | 4.2 | 1 |
| 101 | What To Do with Sparkers?. Proceedings of the International Astronomical Union, 2011, 7, 342-343. | 0.0 | 0 |
| 102 | Radio pulsar variability. Proceedings of the International Astronomical Union, 2012, 8, 295-300. | 0.0 | 0 |
| 103 | A search for coherent radio emission from RX J0648.0-4418. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1884-1886. | 1.6 | 0 |
| 104 | Strong field tests of gravity with PSR J1141-6545. Proceedings of the International Astronomical Union, 2017, 13, 142-145. | 0.0 | 0 |