

Benjamin McKinley

List of Publications by Year in descending order

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75
papers

4,319
citations

159585

30
h-index

106344

65
g-index

76
all docs

76
docs citations

76
times ranked

2921
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Searching for the synchrotron cosmic web again: A replication attempt. Publications of the Astronomical Society of Australia, 2022, 39, . | 3.4 | 4 |
| 2 | Multi-scale feedback and feeding in the closest radio galaxy Centaurus A. Nature Astronomy, 2022, 6, 109-120. | 10.1 | 16 |
| 3 | System design and calibration of SITARA—a global 21 cm short spacing interferometer prototype. Publications of the Astronomical Society of Australia, 2022, 39, . | 3.4 | 5 |
| 4 | FIGARO simulation: Filaments & GALactic RadiO simulation. Publications of the Astronomical Society of Australia, 2021, 38, . | 3.4 | 6 |
| 5 | Ultra-steep-spectrum Radio “Jellyfish” Uncovered in A2877. Astrophysical Journal, 2021, 909, 198. | 4.5 | 16 |
| 6 | A new MWA limit on the 21 cm power spectrum at redshifts $z \sim 1.3-17$. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4775-4790. | 4.4 | 25 |
| 7 | Constraining the 21 cm brightness temperature of the IGM at $z = 6.6$ around LAEs with the Murchison widefield array. Monthly Notices of the Royal Astronomical Society, 2021, 507, 772-780. | 4.4 | 3 |
| 8 | Epoch of reionization power spectrum limits from Murchison Widefield Array data targeted at EoR1 field. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5954-5971. | 4.4 | 14 |
| 9 | The Aperture Array Verification System 1: System overview and early commissioning results. Astronomy and Astrophysics, 2021, 655, A5. | 5.1 | 16 |
| 10 | The MWA long baseline Epoch of reionisation survey “I”. Improved source catalogue for the EoR 0 field. Publications of the Astronomical Society of Australia, 2021, 38, . | 3.4 | 5 |
| 11 | The All-Sky Signal Short-Spacing Interferometer (ASSASSIN) “ I. Global-sky measurements with the Engineering Development Array-2. Monthly Notices of the Royal Astronomical Society, 2020, 499, 52-67. | 4.4 | 12 |
| 12 | Low(er) frequency follow-up of 28 candidate, large-scale synchrotron sources. Publications of the Astronomical Society of Australia, 2020, 37, . | 3.4 | 8 |
| 13 | The impact of tandem redundant/sky-based calibration in MWA Phase II data analysis. Publications of the Astronomical Society of Australia, 2020, 37, . | 3.4 | 8 |
| 14 | Modelling and peeling extended sources with shapelets: A Fornax A case study. Publications of the Astronomical Society of Australia, 2020, 37, . | 3.4 | 11 |
| 15 | Deep multiredshift limits on Epoch of Reionization 21 cm power spectra from four seasons of Murchison Widefield Array observations. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4711-4727. | 4.4 | 129 |
| 16 | EMBERS: Experimental Measurement of Beam Responses with Satellites. Journal of Open Source Software, 2020, 5, 2629. | 4.6 | 2 |
| 17 | Gridded and direct Epoch of Reionisation bispectrum estimates using the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2019, 36, . | 3.4 | 19 |
| 18 | Improving the Epoch of Reionization Power Spectrum Results from Murchison Widefield Array Season 1 Observations. Astrophysical Journal, 2019, 884, 1. | 4.5 | 92 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Robust statistics towards detection of the 21cm signal from the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5766-5784. | 4.4 | 4 |
| 20 | Murchison Widefield Array and XMM-Newton observations of the Galactic supernova remnant G5.9+3.1. Astronomy and Astrophysics, 2019, 625, A93. | 5.1 | 1 |
| 21 | Galactic and Extragalactic All-sky Murchison Widefield Array (GLEAM) survey II: Galactic plane 345° <i>l</i> <i>l</i> 67° , 180° <i>l</i> <i>l</i> 240°. Publications of the Astronomical Society of Australia, 2019, 36, . | 3.4 | 30 |
| 22 | First Season MWA Phase II Epoch of Reionization Power Spectrum Results at Redshift 7. Astrophysical Journal, 2019, 887, 141. | 4.5 | 69 |
| 23 | A Serendipitous MWA Search for Narrowband Signals from Oumuamua. Astrophysical Journal, 2018, 857, 11. | 4.5 | 19 |
| 24 | The Phase II Murchison Widefield Array: Design overview. Publications of the Astronomical Society of Australia, 2018, 35, . | 3.4 | 140 |
| 25 | Assessment of Ionospheric Activity Tolerances for Epoch of Reionization Science with the Murchison Widefield Array. Astrophysical Journal, 2018, 867, 15. | 4.5 | 17 |
| 26 | In situ measurement of MWA primary beam variation using ORBCOMM. Publications of the Astronomical Society of Australia, 2018, 35, . | 3.4 | 24 |
| 27 | Comparing Redundant and Sky-model-based Interferometric Calibration: A First Look with Phase II of the MWA. Astrophysical Journal, 2018, 863, 170. | 4.5 | 41 |
| 28 | Galactic synchrotron distribution derived from 152 H&#ii region absorption features in the full GLEAM survey. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4041-4055. | 4.4 | 13 |
| 29 | Measuring the global 21-cm signal with the MWA-I: improved measurements of the Galactic synchrotron background using lunar occultation. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5034-5045. | 4.4 | 20 |
| 30 | A multifrequency radio continuum study of the Magellanic Clouds I. Overall structure and star formation rates. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2743-2756. | 4.4 | 21 |
| 31 | The spectral energy distribution of powerful starburst galaxies I. Modelling the radio continuum. Monthly Notices of the Royal Astronomical Society, 2018, 474, 779-799. | 4.4 | 32 |
| 32 | The jet/wind outflow in Centaurus A: a local laboratory for AGN feedback. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4056-4072. | 4.4 | 20 |
| 33 | Spectral Energy Distribution and Radio Halo of NGC 253 at Low Radio Frequencies. Astrophysical Journal, 2017, 838, 68. | 4.5 | 23 |
| 34 | Extragalactic Peaked-spectrum Radio Sources at Low Frequencies. Astrophysical Journal, 2017, 836, 174. | 4.5 | 112 |
| 35 | A High-Resolution Foreground Model for the MWA EoR1 Field: Model and Implications for EoR Power Spectrum Analysis. Publications of the Astronomical Society of Australia, 2017, 34, . | 3.4 | 25 |
| 36 | A search for long-time-scale, low-frequency radio transients. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1944-1953. | 4.4 | 30 |

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|----|--|-----|-----------|
| 37 | Low-Frequency Spectral Energy Distributions of Radio Pulsars Detected with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2017, 34, . | 3.4 | 25 |
| 38 | Calibration and Stokes Imaging with Full Embedded Element Primary Beam Model for the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2017, 34, . | 3.4 | 51 |
| 39 | Giant lobes of Centaurus A as seen in radio and gamma-ray images obtained with the Fermi-LAT and Planck satellites. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 40 | Galactic synchrotron emissivity measurements between 250° <i>l</i> <math>355^{\circ} from the GLEAM survey with the MWA. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3163-3174. | 4.4 | 12 |
| 41 | High-energy sources at low radio frequency: the Murchison Widefield Array view of Fermi blazars. Astronomy and Astrophysics, 2016, 588, A141. | 5.1 | 31 |
| 42 | LOW-FREQUENCY OBSERVATIONS OF LINEARLY POLARIZED STRUCTURES IN THE INTERSTELLAR MEDIUM NEAR THE SOUTH GALACTIC POLE. Astrophysical Journal, 2016, 830, 38. | 4.5 | 58 |
| 43 | DELAY SPECTRUM WITH PHASE-TRACKING ARRAYS: EXTRACTING THE H I POWER SPECTRUM FROM THE EPOCH OF REIONIZATION. Astrophysical Journal, 2016, 833, 213. | 4.5 | 15 |
| 44 | Giant lobes of Centaurus A as seen in radio and γ -ray images obtained with the Fermi-LAT and Planck satellites. Astronomy and Astrophysics, 2016, 595, A29. | 5.1 | 20 |
| 45 | The radio spectral energy distribution of infrared-faint radio sources. Astronomy and Astrophysics, 2016, 593, A130. | 5.1 | 8 |
| 46 | A Large-Scale, Low-Frequency Murchison Widefield Array Survey of Galactic H II Regions between 260° <i>l</i> <math>340^{\circ}. Publications of the Astronomical Society of Australia, 2016, 33, . | 3.4 | 16 |
| 47 | Ionospheric Modelling using GPS to Calibrate the MWA. II: Regional Ionospheric Modelling using GPS and GLONASS to Estimate Ionospheric Gradients. Publications of the Astronomical Society of Australia, 2016, 33, . | 3.4 | 8 |
| 48 | FIRST SEASON MWA EOR POWER SPECTRUM RESULTS AT REDSHIFT 7. Astrophysical Journal, 2016, 833, 102. | 4.5 | 147 |
| 49 | THE IMPORTANCE OF WIDE-FIELD FOREGROUND REMOVAL FOR 21 cm COSMOLOGY: A DEMONSTRATION WITH EARLY MWA EPOCH OF REIONIZATION OBSERVATIONS. Astrophysical Journal, 2016, 819, 8. | 4.5 | 65 |
| 50 | A high reliability survey of discrete Epoch of Reionization foreground sources in the MWA EoRO field. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4151-4175. | 4.4 | 27 |
| 51 | THE MURCHISON WIDEFIELD ARRAY 21 cm POWER SPECTRUM ANALYSIS METHODOLOGY. Astrophysical Journal, 2016, 825, 114. | 4.5 | 67 |
| 52 | Low radio frequency observations and spectral modelling of the remnant of Supernova 1987A. Monthly Notices of the Royal Astronomical Society, 2016, 462, 290-297. | 4.4 | 15 |
| 53 | First limits on the 21 cm power spectrum during the Epoch of X-ray heating. Monthly Notices of the Royal Astronomical Society, 2016, 460, 4320-4347. | 4.4 | 79 |
| 54 | Parametrizing Epoch of Reionization foregrounds: a deep survey of low-frequency point-source spectra with the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1057-1070. | 4.4 | 68 |

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| 55 | CHIPS: THE COSMOLOGICAL H I POWER SPECTRUM ESTIMATOR. <i>Astrophysical Journal</i> , 2016, 818, 139. | 4.5 | 98 |
| 56 | GLEAM: The GaLactic and Extragalactic All-Sky MWA Survey. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, . | 3.4 | 221 |
| 57 | Ionospheric Modelling using GPS to Calibrate the MWA. I: Comparison of First Order Ionospheric Effects between GPS Models and MWA Observations. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, . | 3.4 | 13 |
| 58 | Empirical covariance modeling for 21Åcm power spectrum estimation: A method demonstration and new limits from early Murchison Widefield Array 128-tile data. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 99 |
| 59 | BROADBAND SPECTRAL MODELING OF THE EXTREME GIGAHERTZ-PEAKED SPECTRUM RADIO SOURCE PKS B0008-421. <i>Astrophysical Journal</i> , 2015, 809, 168. | 4.5 | 65 |
| 60 | An analysis of the halo and relic radio emission from Abell 3376 from Murchison Widefield Array observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 4207-4214. | 4.4 | 12 |
| 61 | THE SPECTRAL VARIABILITY OF THE GHZ-PEAKED SPECTRUM RADIO SOURCE PKS 1718-649 AND A COMPARISON OF ABSORPTION MODELS. <i>Astronomical Journal</i> , 2015, 149, 74. | 4.7 | 36 |
| 62 | CONFIRMATION OF WIDE-FIELD SIGNATURES IN REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal Letters</i> , 2015, 807, L28. | 8.3 | 73 |
| 63 | The Murchison Widefield Array Correlator. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, . | 3.4 | 39 |
| 64 | The Low-Frequency Environment of the Murchison Widefield Array: Radio-Frequency Interference Analysis and Mitigation. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, . | 3.4 | 107 |
| 65 | FOREGROUNDS IN WIDE-FIELD REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal</i> , 2015, 804, 14. | 4.5 | 122 |
| 66 | Modelling of the spectral energy distribution of Fornax A: leptonic and hadronic production of high-energy emission from the radio lobes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3478-3491. | 4.4 | 41 |
| 67 | The First Murchison Widefield Array low-frequency radio observations of cluster scale non-thermal emission: the case of Abell 3667. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 330-346. | 4.4 | 39 |
| 68 | wsclean: an implementation of a fast, generic wide-field imager for radio astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 606-619. | 4.4 | 562 |
| 69 | First look Murchison Widefield Array observations of Abell 3667. , 2014, , . | | 0 |
| 70 | The Murchison Widefield Array Commissioning Survey: A Low-Frequency Catalogue of 14 110 Compact Radio Sources over 6 100 Square Degrees. <i>Publications of the Astronomical Society of Australia</i> , 2014, 31, . | 3.4 | 62 |
| 71 | The Murchison Widefield Array: The Square Kilometre Array Precursor at Low Radio Frequencies. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, . | 3.4 | 892 |
| 72 | The giant lobes of Centaurus A observed at 118â€‰MHz with the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 1286-1301. | 4.4 | 19 |

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|----|--|-----|-----------|
| 73 | LOW-FREQUENCY OBSERVATIONS OF THE MOON WITH THE MURCHISON WIDEFIELD ARRAY. <i>Astronomical Journal</i> , 2013, 145, 23. | 4.7 | 31 |
| 74 | ON THE DETECTION AND TRACKING OF SPACE DEBRIS USING THE MURCHISON WIDEFIELD ARRAY. I. SIMULATIONS AND TEST OBSERVATIONS DEMONSTRATE FEASIBILITY. <i>Astronomical Journal</i> , 2013, 146, 103. | 4.7 | 34 |
| 75 | A study of halo and relic radio emission in merging clusters using the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx155. | 4.4 | 7 |