## Iain Mcdonald

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | ATOMIUM: ALMA tracing the origins of molecules in dust forming oxygen rich M-type stars. Astronomy and Astrophysics, 2022, 660, A94.   | 5.1  | 14        |
| 2  | The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the<br>James Clerk Maxwell Telescope. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1091-1110. | 4.4  | 5         |
| 3  | A Census of Thermally Pulsing AGB Stars in the Andromeda Galaxy and a First Estimate of Their<br>Contribution to the Global Dust Budget. Astrophysical Journal, Supplement Series, 2022, 259, 41.              | 7.7  | 6         |
| 4  | The Isaac Newton Telescope Monitoring Survey of Local Group Dwarf Galaxies. IV. The Star Formation<br>History of Andromeda VII Derived from Long-period Variable Stars. Astrophysical Journal, 2021, 910, 127. | 4.5  | 6         |
| 5  | Infrared variable stars in the compact elliptical galaxy M32. Monthly Notices of the Royal<br>Astronomical Society, 2021, 504, 565-575.  | 4.4  | 2         |
| 6  | Determination of Rotation Periods for a Large Sample of Asteroids from the K2 Campaign 9.<br>Astrophysical Journal, Supplement Series, 2021, 255, 4.   | 7.7  | 3         |
| 7  | Improved Models of Coalescence Ages of Y-DNA Haplogroups. Genes, 2021, 12, 862.  | 2.4  | 2         |
| 8  | <i>Kepler K2</i> Campaign 9 – I. Candidate short-duration events from the first space-based survey for planetary microlensing. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5584-5602.        | 4.4  | 5         |
| 9  | High-resolution H <i><math>\hat{l}</math>+</i> imaging of the northern Galactic plane and the IGAPS image database. Astronomy and Astrophysics, 2021, 655, A49.  | 5.1  | 7         |
| 10 | First deep images catalogue of extended IPHAS PNe. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1599-1617.  | 4.4  | 4         |
| 11 | ATOMIUM: halide molecules around the S-type AGB star W Aquilae. Astronomy and Astrophysics, 2021, 655, A80.  | 5.1  | 13        |
| 12 | The detection of radio emission from known X-ray flaring star EXO 040830â^'7134.7. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1083-1092.  | 4.4  | 7         |
| 13 | Optimizing exoplanet atmosphere retrieval using unsupervised machine-learning classification.<br>Monthly Notices of the Royal Astronomical Society, 2020, 494, 4492-4508.                                      | 4.4  | 24        |
| 14 | (Sub)stellar companions shape the winds of evolved stars. Science, 2020, 369, 1497-1500.   | 12.6 | 57        |
| 15 | Classification of Planetary Nebulae through Deep Transfer Learning. Galaxies, 2020, 8, 88.   | 3.0  | 10        |
| 16 | The Isaac Newton Telescope Monitoring Survey of Local Group Dwarf Galaxies. I. Survey Overview and<br>First Results for Andromeda I. Astrophysical Journal, 2020, 894, 135.                                    | 4.5  | 9         |
| 17 | Circumstellar CO J = 3→2 detected around the evolving metal-poor ([Fe/H] â‰^ â~'1.15 dex) AGB star RU<br>Vulpeculae. Monthly Notices of the Royal Astronomical Society, 2020, 491, 1174-1189.                  | 4.4  | 4         |
| 18 | Betelgeuse Fainter in the Submillimeter Too: An Analysis of JCMT and APEX Monitoring during the<br>Recent Optical Minimum. Astrophysical Journal Letters, 2020, 897, L9.                                       | 8.3  | 31        |

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|----|---|------|-----------|
| 19 | MKTÂJ170456.2–482100: the first transient discovered by MeerKAT. Monthly Notices of the Royal<br>Astronomical Society, 2020, 491, 560-575.  | 4.4  | 20        |
| 20 | ATOMIUM: A high-resolution view on the highly asymmetric wind of the AGB<br>star <i>Ï€</i> <sup>1</sup> Gruis. Astronomy and Astrophysics, 2020, 644, A61.                                  | 5.1  | 17        |
| 21 | The nearby evolved stars survey – I. JCMT/SCUBA-2 submillimetre detection of the detached shell of U<br>Antliae. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3218-3231.   | 4.4  | 4         |
| 22 | Asymptotic Giant Branch Stars in the Nearby Dwarf Galaxy Leo P*. Astrophysical Journal, 2019, 884, 152.   | 4.5  | 4         |
| 23 | An Infrared Census of DUST in Nearby Galaxies with Spitzer (DUSTiNGS). V. The Period–Luminosity<br>Relation for Dusty Metal-poor AGB Stars. Astrophysical Journal, 2019, 877, 49.           | 4.5  | 23        |
| 24 | The onset of the AGB wind tied to a transition between sequences in the period–luminosity diagram.<br>Monthly Notices of the Royal Astronomical Society, 2019, 484, 4678-4682.              | 4.4  | 25        |
| 25 | Circumstellar CO in metal-poor stellar winds: the highly irradiated globular cluster star 47 Tucanae<br>V3. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L85-L89. | 3.3  | 7         |
| 26 | Reduction of the maximum mass-loss rate of OH/IR stars due to unnoticed binary interaction. Nature Astronomy, 2019, 3, 408-415.   | 10.1 | 24        |
| 27 | Interplay between pulsation, mass loss, and third dredge-up: More about Miras with and without technetium. Astronomy and Astrophysics, 2019, 622, A120.                                     | 5.1  | 10        |
| 28 | Stellar Pulsation and the Production of Dust and Molecules in Galactic Carbon Stars. Astrophysical Journal, 2019, 887, 82.  | 4.5  | 5         |
| 29 | Near-infrared Stellar Populations in the Metal-poor, Dwarf Irregular Galaxies Sextans A and Leo A.<br>Astrophysical Journal, 2018, 854, 117.  | 4.5  | 14        |
| 30 | Pre-discovery transits of the exoplanets WASP-18b and WASP-33b from <i>Hipparcos</i> . Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L21-L24.                      | 3.3  | 28        |
| 31 | Pulsation-triggered dust production by asymptotic giant branch stars. Monthly Notices of the Royal<br>Astronomical Society, 2018, 481, 4984-4999.   | 4.4  | 31        |
| 32 | The onset of mass loss in AGB stars. Proceedings of the International Astronomical Union, 2018, 14, 464-465.  | 0.0  | 0         |
| 33 | The End: Witnessing the Death of Extreme Carbon Stars. Proceedings of the International Astronomical Union, 2018, 14, 305-308.  | 0.0  | 0         |
| 34 | Near-Infrared Stellar Populations in the metal-poor, Dwarf irregular Galaxies Sextans A and Leo A.<br>Proceedings of the International Astronomical Union, 2018, 14, 429-430.               | 0.0  | 0         |
| 35 | Does 3rd dredge-up reduce AGB mass-loss?. Proceedings of the International Astronomical Union, 2018, 14, 529-530.   | 0.0  | 0         |
| 36 | The close circumstellar environment of Betelgeuse. Astronomy and Astrophysics, 2018, 609, A67.  | 5.1  | 54        |

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|----|---|------|-----------|
| 37 | The curious case of Il Lup: a complex morphology revealed with SAM/NACO and ALMA. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1006-1021.  | 4.4  | 9         |
| 38 | The mysterious age invariance of the planetary nebula luminosity function bright cut-off. Nature Astronomy, 2018, 2, 580-584.   | 10.1 | 25        |
| 39 | Flickering in AGB stars: probing the nature of accreting companions. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4200-4212.   | 4.4  | 4         |
| 40 | ALMA observations of the nearby AGB star L <sub>2</sub> Puppis. Astronomy and Astrophysics, 2017, 601, A5.  | 5.1  | 26        |
| 41 | The SACE-Spec Spitzer Legacy program: the life-cycle of dust and gas in the Large Magellanic Cloud.<br>Point source classification – III. Monthly Notices of the Royal Astronomical Society, 2017, 470,<br>3250-3282. | 4.4  | 47        |
| 42 | An Infrared Census of DUST in Nearby Galaxies with Spitzer (DUSTiNGS). IV. Discovery of High-redshift<br>AGB Analogs <sup>*</sup> . Astrophysical Journal, 2017, 851, 152.  | 4.5  | 29        |
| 43 | Fundamental parameters and infrared excesses of Tycho–Gaia stars. Monthly Notices of the Royal<br>Astronomical Society, 2017, 471, 770-791.   | 4.4  | 84        |
| 44 | The inhomogeneous submillimeter atmosphere of Betelgeuse. Astronomy and Astrophysics, 2017, 602,<br>L10.  | 5.1  | 30        |
| 45 | DUSTINGS. III. DISTRIBUTION OF INTERMEDIATE-AGE AND OLD STELLAR POPULATIONS IN DISKS AND OUTER EXTREMITIES OF DWARF GALAXIES. Astrophysical Journal, 2017, 834, 78.   | 4.5  | 31        |
| 46 | ALMA observations of the nearby AGB star L <sub>2</sub> Puppis. Astronomy and Astrophysics, 2016,<br>596, A92.  | 5.1  | 54        |
| 47 | THE CATALOG OF EARTH-LIKE EXOPLANET SURVEY TARGETS (CELESTA): A DATABASE OF HABITABLE ZONES AROUND NEARBY STARS. Astronomical Journal, 2016, 151, 59.   | 4.7  | 49        |
| 48 | EU Del: exploring the onset of pulsation-driven winds in giant stars. Monthly Notices of the Royal<br>Astronomical Society, 2016, 456, 4542-4550.   | 4.4  | 10        |
| 49 | IDENTIFICATION OF A CLASS OF LOW-MASS ASYMPTOTIC GIANT BRANCH STARS STRUGGLING TO BECOME CARBON STARS IN THE MAGELLANIC CLOUDS. Astrophysical Journal, 2015, 810, 116.  | 4.5  | 31        |
| 50 | <i>Spitzer</i> infrared spectrograph point source classification in the Small Magellanic Cloud.<br>Monthly Notices of the Royal Astronomical Society, 2015, 451, 3504-3536.   | 4.4  | 41        |
| 51 | Comparative Studies of the Dust around Red Supergiant and Oxygen-Rich Asymptotic Giant Branch<br>Stars in the Local Universe. Proceedings of the International Astronomical Union, 2015, 11, 470-471.                 | 0.0  | 0         |
| 52 | AGB SODIUM ABUNDANCES IN THE GLOBULAR CLUSTER 47 TUCANAE (NGC 104). Astronomical Journal, 2015, 149, 71.  | 4.7  | 46        |
| 53 | AN INFRARED CENSUS OF DUST IN NEARBY GALAXIES WITH <i>SPITZER </i> (DUSTiNGS). II. DISCOVERY OF METAL-POOR DUSTY AGB STARS. Astrophysical Journal, 2015, 800, 51.   | 4.5  | 55        |
| 54 | Globular cluster interstellar media: ionized and ejected by white dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2226-2242.  | 4.4  | 27        |

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|----|---|------|-----------|
| 55 | Mass-loss on the red giant branch: the value and metallicity dependence of Reimers' η in globular<br>clusters. Monthly Notices of the Royal Astronomical Society, 2015, 448, 502-521.                             | 4.4  | 82        |
| 56 | Dissecting the AGB star L2Puppis: a torus in the making. Astronomy and Astrophysics, 2015, 576, A46.  | 5.1  | 22        |
| 57 | ALMA sub-mm maser and dust distribution of VY Canis Majoris. Astronomy and Astrophysics, 2014, 572,<br>L9.  | 5.1  | 35        |
| 58 | The VST Photometric HÂ Survey of the Southern Galactic Plane and Bulge (VPHAS+). Monthly Notices of the Royal Astronomical Society, 2014, 440, 2036-3058.   | 4.4  | 197       |
| 59 | The second data release of the INT Photometric Hα Survey of the Northern Galactic Plane (IPHAS DR2).<br>Monthly Notices of the Royal Astronomical Society, 2014, 444, 3230-3257.                                  | 4.4  | 131       |
| 60 | VISTA variables in the Sagittarius dwarf spheroidal galaxy: pulsation-versus dust-driven winds on the giant branches. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2618-2637.                    | 4.4  | 16        |
| 61 | Modelling the alumina abundance of oxygen-rich evolved stars in the Large Magellanic Cloud.<br>Monthly Notices of the Royal Astronomical Society, 2014, 440, 631-651.   | 4.4  | 30        |
| 62 | ExELS: an exoplanet legacy science proposal for the ESA Euclid mission– I. Cold exoplanets. Monthly<br>Notices of the Royal Astronomical Society, 2013, 434, 2-22.  | 4.4  | 107       |
| 63 | e-MERLIN resolves Betelgeuse at λ 5 cm: hotspots at 5Â <i>R</i> ⋆. Monthly Notices of the Royal<br>Astronomical Society: Letters, 2013, 432, L61-L65.   | 3.3  | 34        |
| 64 | VISTA's view of the Sagittarius dwarf spheroidal galaxy and southern Galactic Bulge. Monthly Notices of the Royal Astronomical Society, 2013, 436, 413-429.   | 4.4  | 13        |
| 65 | THE DUST BUDGET OF THE SMALL MAGELLANIC CLOUD: ARE ASYMPTOTIC GIANT BRANCH STARS THE PRIMARY DUST SOURCE AT LOW METALLICITY?. Astrophysical Journal, 2012, 748, 40.   | 4.5  | 112       |
| 66 | CARBON-RICH DUST PRODUCTION IN METAL-POOR GALAXIES IN THE LOCAL GROUP. Astrophysical Journal, 2012, 752, 140.   | 4.5  | 39        |
| 67 | Sir Bernard Lovell (1913–2012). Science, 2012, 337, 1307-1307.  | 12.6 | 0         |
| 68 | Carbon enrichment of the evolved stars in the Sagittarius dwarf spheroidal. Monthly Notices of the<br>Royal Astronomical Society, 2012, 427, 2647-2659.   | 4.4  | 21        |
| 69 | The <i>Spitzer</i> spectroscopic survey of S-type stars. Astronomy and Astrophysics, 2012, 540, A72.  | 5.1  | 24        |
| 70 | The SAGE-Spec Spitzer Legacy programme: the life-cycle of dust and gas in the Large Magellanic Cloud -<br>Point source classification I. Monthly Notices of the Royal Astronomical Society, 2011, 411, 1597-1627. | 4.4  | 93        |
| 71 | Carbon chemistry in Galactic bulge planetary nebulae. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1667-1678.  | 4.4  | 48        |
| 72 | Spitzer spectra of evolved stars in ω Centauri and their low-metallicity dust production. Monthly<br>Notices of the Royal Astronomical Society, 2011, 417, 20-31.   | 4.4  | 36        |

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| 73 | SURVEYING THE AGENTS OF GALAXY EVOLUTION IN THE TIDALLY STRIPPED, LOW METALLICITY SMALL MAGELLANIC CLOUD (SAGE-SMC). II. COOL EVOLVED STARS. Astronomical Journal, 2011, 142, 103.                  | 4.7  | 136       |
| 74 | SURVEYING THE AGENTS OF GALAXY EVOLUTION IN THE TIDALLY STRIPPED, LOW METALLICITY SMALL MAGELLANIC CLOUD (SAGE-SMC). I. OVERVIEW. Astronomical Journal, 2011, 142, 102.                             | 4.7  | 170       |
| 75 | IS DUST FORMING ON THE RED GIANT BRANCH IN 47 Tuc?. Astrophysical Journal Letters, 2010, 711, L99-L103.   | 8.3  | 41        |
| 76 | <i>SPITZER</i> SPECTROSCOPY OF MASS-LOSS AND DUST PRODUCTION BY EVOLVED STARS IN GLOBULAR<br>CLUSTERS. Astrophysical Journal, 2010, 719, 1274-1292.   | 4.5  | 48        |
| 77 | Discovery of long-period variable stars in the very metal-poor globular cluster M15. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.  | 4.4  | 6         |
| 78 | Line-profile tomography of exoplanet transits - II. A gas-giant planet transiting a rapidly rotating A5 starâ~ Monthly Notices of the Royal Astronomical Society, 2010, 407, 507-514.               | 4.4  | 242       |
| 79 | DUST PRODUCTION AND MASS LOSS IN THE GALACTIC GLOBULAR CLUSTER NGC 362. Astrophysical Journal, 2009, 705, 746-757.  | 4.5  | 40        |
| 80 | Dust Formation in a Galaxy with Primitive Abundances. Science, 2009, 323, 353-355.  | 12.6 | 61        |
| 81 | Metallicity, pulsation and mass loss in globular cluster low-mass AGB stars. , 2009, , .  |      | 0         |
| 82 | Giants in the globular cluster ω Centauri: dust production, mass-loss and distance. Monthly Notices of<br>the Royal Astronomical Society, 2009, 394, 831-856.                                       | 4.4  | 80        |
| 83 | The global gas and dust budget of the Large Magellanic Cloud: AGB stars and supernovae, and the impact on the ISM evolution. Monthly Notices of the Royal Astronomical Society, 2009, 396, 918-934. | 4.4  | 176       |
| 84 | The Magellanic Zoo: Midâ€Infrared <i>Spitzer</i> Spectroscopy of Evolved Stars and Circumstellar Dust<br>in the Magellanic Clouds. Astrophysical Journal, 2008, 686, 1056-1081.                     | 4.5  | 87        |
| 85 | <i>Spitzer Space Telescope</i> Evidence in NGC 6791: No Super Mass Loss at Supersolar Metallicity to Explain Helium White Dwarfs?. Astrophysical Journal, 2008, 680, L49-L52.                       | 4.5  | 31        |
| 86 | Spitzer spectroscopy of carbon stars in the Small Magellanic Cloud. Monthly Notices of the Royal<br>Astronomical Society, 2007, 376, 1270-1284.   | 4.4  | 67        |
| 87 | Dust, pulsation, chromospheres and their rÃ1e in driving mass loss from red giants in Galactic<br>globular clusters. Astronomy and Astrophysics, 2007, 476, 1261-1282.                              | 5.1  | 48        |
| 88 | Luminosities and mass-loss rates of carbon stars in the Magellanic Clouds. Monthly Notices of the Royal Astronomical Society, 2007, 376, 313-337.   | 4.4  | 94        |
| 89 | Spitzer Space Telescope spectral observations of AGB stars in the Fornax dwarf spheroidal galaxy.<br>Monthly Notices of the Royal Astronomical Society, 2007, 382, 1889-1900.                       | 4.4  | 41        |
| 90 | Spitzer observations of acetylene bands in carbon-rich asymptotic giant branch stars in the Large<br>Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2006, 371, 415-420.       | 4.4  | 60        |

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| 91  | Very Large Telescope three micron spectra of dust-enshrouded red giants in the Large Magellanic<br>Cloud. Astronomy and Astrophysics, 2006, 447, 971-989.                          | 5.1 | 42        |
| 92  | The first 8–13 μm spectra of globular cluster red giants: circumstellar silicate dust grains in 47 Tucanae<br>(NGC 104). Astronomy and Astrophysics, 2006, 450, 339-343.           | 5.1 | 32        |
| 93  | Dust-enshrouded giants in clusters in the Magellanic Clouds. Astronomy and Astrophysics, 2005, 442, 597-613.   | 5.1 | 73        |
| 94  | Three-micron spectra of AGB stars and supergiants in nearby galaxies. Astronomy and Astrophysics, 2005, 434, 691-706.  | 5.1 | 56        |
| 95  | Obscured asymptotic giant branch variables in the Large Magellanic Cloud and the period-luminosity relation. Monthly Notices of the Royal Astronomical Society, 2003, 342, 86-104. | 4.4 | 131       |
| 96  | The evolution of the Mira variable R Hydrae. Monthly Notices of the Royal Astronomical Society, 2002, 334, 498-510.  | 4.4 | 45        |
| 97  | Bipolar outflows in OH/IR stars. Monthly Notices of the Royal Astronomical Society, 2001, 322, 280-308.  | 4.4 | 110       |
| 98  | The angular diameter of R Doradus: a nearby Mira-like star. Monthly Notices of the Royal<br>Astronomical Society, 1997, 286, 957-962.  | 4.4 | 35        |
| 99  | Exoplanetary atmosphere target selection in the era of comparative planetology. Monthly Notices of the Royal Astronomical Society, 0, , .  | 4.4 | 6         |
| 100 | A 1D fluid model of the CentaurusÂA jet. Monthly Notices of the Royal Astronomical Society, 0, , .   | 4.4 | 5         |