

Maria R Cunningham

List of Publications by Year in descending order

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77
papers

2,377
citations

186265
28
h-index

214800
47
g-index

78
all docs

78
docs citations

78
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	The H ₂ O Southern Galactic Plane Survey (HOPS) - I. Techniques and H ₂ O maser data. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1764-1821.	4.4	163
2	Molecular gas kinematics within the central 250 pc of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2675-2702.	4.4	154
3	Spectral imaging of the Central Molecular Zone in multiple 3-mm molecular lines. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2961-2986.	4.4	128
4	Millimetre continuum observations of southern massive star formation regions -- I. SIMBA observations of cold cores. Monthly Notices of the Royal Astronomical Society, 2005, 363, 405-451.	4.4	125
5	THE MILLIMETER ASTRONOMY LEGACY TEAM 90 GHz (MALT90) PILOT SURVEY. Astrophysical Journal, Supplement Series, 2011, 197, 25.	7.7	115
6	A CH ₃ CN and HCO ⁺ survey towards southern methanol masers associated with star formation. Monthly Notices of the Royal Astronomical Society, 2006, 367, 553-576.	4.4	110
7	A search for propylene oxide and glycine in Sagittarius B2 (LMH) and Orion. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1201-1210.	4.4	88
8	A Search for biomolecules in Sagittarius B2 (LMH) with the Australia Telescope Compact Array. Monthly Notices of the Royal Astronomical Society, 2007, 374, 579-589.	4.4	74
9	The H ₂ O Southern Galactic Plane Survey: NH ₃ (1,1) and (2,2) catalogues. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1972-1991.	4.4	72
10	THE THREE-MM ULTIMATE MOPRA MILKY WAY SURVEY. I. SURVEY OVERVIEW, INITIAL DATA RELEASES, AND FIRST RESULTS. Astrophysical Journal, 2015, 812, 6.	4.5	70
11	Spectral imaging of the Sagittarius B2 region in multiple 3-mm molecular lines with the Mopra telescope. Monthly Notices of the Royal Astronomical Society, 2008, 386, 117-137.	4.4	65
12	Molecular line mapping of the giant molecular cloud associated with RCW 106 -- II. Column density and dynamical state of the clumps. Monthly Notices of the Royal Astronomical Society, 2008, 386, 1069-1084.	4.4	57
13	Molecular line mapping of the giant molecular cloud associated with RCW 106 - III. Multimolecular line mapping. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1021-1042.	4.4	53
14	The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. Astrophysical Journal, Supplement Series, 2018, 234, 28.	7.7	50
15	Relative Alignment between the Magnetic Field and Molecular Gas Structure in the Vela C Giant Molecular Cloud Using Low- and High-density Tracers. Astrophysical Journal, 2019, 878, 110.	4.5	49
16	Molecular line mapping of the giant molecular cloud associated with RCW 106 - I. 13CO. Monthly Notices of the Royal Astronomical Society, 2006, 367, 1609-1628.	4.4	48
17	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions -- I. Survey description and a first look at G9.62+0.19. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2790-2820.	4.4	45
18	SPLASH: the Southern Parkes Large-Area Survey in Hydroxyl -- first science from the pilot region. Monthly Notices of the Royal Astronomical Society, 2014, 439, 1596-1614.	4.4	42

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19	Astrochemical Properties of Planck Cold Clumps. <i>Astrophysical Journal, Supplement Series</i> , 2017, 228, 12.	7.7	41
20	Physical and chemical conditions in methanol maser selected hot cores and UCH α regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 323-339.	4.4	40
21	MOPRA CO OBSERVATIONS OF THE BUBBLE H II REGION RCW 120. <i>Astrophysical Journal</i> , 2015, 800, 101.	4.5	40
22	Observations of HCN hyperfine line anomalies towards low- and high-mass star-forming cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 1367-1383.	4.4	39
23	Spectral imaging of the central molecular zone in multiple 7-mm molecular lines. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 221-234.	4.4	38
24	STAR FORMATION LAWS IN BOTH GALACTIC MASSIVE CLUMPS AND EXTERNAL GALAXIES: EXTENSIVE STUDY WITH DUST CONTINUUM, HCN (4-3), AND CS (7-6). <i>Astrophysical Journal</i> , 2016, 829, 59.	4.5	38
25	Millimetre continuum observations of southern massive star formation regions â€” II. SCUBA observations of cold cores and the dust grain emissivity index (β). <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 368, 1223-1268.	4.4	37
26	A search for 22-GHz water masers within the giant molecular cloud associated with RCW 106. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 491-506.	4.4	33
27	PLANCK COLD CLUMPS IN THE Î» ORIONIS COMPLEX. I. DISCOVERY OF AN EXTREMELY YOUNG CLASS 0 PROTOSTELLAR OBJECT AND A PROTO-BROWN DWARF CANDIDATE IN THE BRIGHT-RIMMED CLUMP PGCC G192.32â€”11.88. <i>Astrophysical Journal, Supplement Series</i> , 2016, 222, 7.	7.7	31
28	H ₂ O Southern Galactic Plane Survey (HOPS): Paper III â€” properties of dense molecular gas across the inner Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1462-1490.	4.4	30
29	An ATCA survey of Sagittarius B2 at 7Åmm: chemical complexity meets broad-band interferometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3969-3993.	4.4	28
30	Spectral imaging of the Sagittarius B2 region in multiple 7-mm molecular lines. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 2293-2310.	4.4	25
31	MALT-45: a 7Åmm survey of the southern Galaxy â€” I. Techniques and spectral line data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2344-2361.	4.4	25
32	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€” III. Catalogues of candidate hot molecular cores and hyper/ultra compact H α regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2801-2818.	4.4	23
33	Physical characterization of southern massive star-forming regions using Parkes NH ₃ observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 2682-2702.	4.4	21
34	Synthesis Imaging of Dense Molecular Gas in the N113 HiiRegion of the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2006, 649, 224-234.	4.5	20
35	High-mass star-forming cloud G0.38+0.04 in the Galactic center dust ridge contains H ₂ CO and SiO masers. <i>Astronomy and Astrophysics</i> , 2015, 584, L7.	5.1	20
36	Tracing Multi-scale Magnetic Field Structure Using Multiple Chemical Tracers in Giant Molecular Clouds. <i>Astrophysical Journal</i> , 2019, 884, 137.	4.5	20

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37	ATOMS: ALMA three-millimeter observations of massive star-forming regions – II. Compact objects in ACA observations and star formation scaling relations. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2821-2835.	4.4	20
38	The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. Astrophysical Journal, 2018, 856, 141.	4.5	19
39	UNUSUAL SHOCK-EXCITED OH MASER EMISSION IN A YOUNG PLANETARY NEBULA. Astrophysical Journal, 2016, 817, 37.	4.5	18
40	Spectral energy distribution modelling of southern candidate massive protostars using the Bayesian inference method. Monthly Notices of the Royal Astronomical Society, 2009, 392, 768-782.	4.4	17
41	Spitzer Space Telescope survey of massive young stellar objects in the G333.2+0.4 giant molecular cloud. Monthly Notices of the Royal Astronomical Society, 2012, 419, 211-237.	4.4	17
42	THE THREE-mm ULTIMATE MOPRA MILKY WAY SURVEY. II. CLOUD AND STAR FORMATION NEAR THE FILAMENTARY MINISTARBURST RCW 106. Astrophysical Journal, 2015, 812, 7.	4.5	17
43	Supersonic turbulence in the cold massive core JCMT 18354+2121-0649S. Monthly Notices of the Royal Astronomical Society, 2009, 400, 78-89.	4.4	16
44	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Detection of Extremely High-density Compact Structure of Prestellar Cores and Multiple Substructures Within. Astrophysical Journal Letters, 2021, 907, L15.	8.3	16
45	The nuclear molecular clouds of NGC 4945. Monthly Notices of the Royal Astronomical Society, 2005, 364, 37-46.	4.4	14
46	A view of Large Magellanic Cloud H _{ii} regions N159, N132, and N166 through the 345-GHz window. Monthly Notices of the Royal Astronomical Society, 2016, 455, 518-525.	4.4	14
47	A Centimeter-wave Study of Methanol and Ammonia Isotopologues in Sgr B2(N): Physical and Chemical Differentiation between Two Hot Cores. Astrophysical Journal, 2018, 869, 121.	4.5	13
48	High-resolution observations of the J = 1-0 transition of cyanoacetylene in Sgr B2. Monthly Notices of the Royal Astronomical Society, 1999, 302, 1-8.	4.4	12
49	ALMA OBSERVATIONS OF THE MASSIVE MOLECULAR OUTFLOW G331.512+0.103. Astrophysical Journal Letters, 2013, 774, L7.	8.3	12
50	TRACING H ₂ COLUMN DENSITY WITH ATOMIC CARBON (C I) AND CO ISOTOPOLOGS. Astrophysical Journal Letters, 2014, 797, L17.	8.3	12
51	FOLLOW-UP OBSERVATIONS TOWARD PLANCK COLD CLUMPS WITH GROUND-BASED RADIO TELESCOPES. Publications of the Korean Astronomical Society, 2015, 30, 79-82.	0.0	12
52	INFRARED DARK CLOUDS IN THE SMALL MAGELLANIC CLOUD?. Astronomical Journal, 2009, 138, 1101-1115.	4.7	11
53	Observations and radiative transfer modelling of a massive dense cold core in G333. Monthly Notices of the Royal Astronomical Society, 2011, 415, 525-533.	4.4	9
54	Dense circumnuclear molecular gas in starburst galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2470-2479.	4.4	9

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55	A first look for molecules between 103 and 133 MHz using the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4144-4154.	4.4	9
56	Removing Visual Bias in Filament Identification: A New Goodness-of-fit Measure. Astrophysical Journal Letters, 2017, 840, L17.	8.3	7
57	First Data Release of the ESO-ARO Public Survey SAMPLING SMT "All-sky" Mapping of Planck Interstellar Nebulae in the Galaxy. Research Notes of the AAS, 2018, 2, 2.	0.7	7
58	Molecular line mapping of the giant molecular cloud associated with RCW 106 IV. Ammonia towards dust emission. Monthly Notices of the Royal Astronomical Society, 2014, 441, 256-273.	4.4	6
59	Scaled up low-mass star formation in massive star-forming cores in the G333 giant molecular cloud. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3429-3442.	4.4	6
60	PRESTELLAR CORES IN THE COALSACK. Astrophysical Journal, 2011, 738, 152.	4.5	4
61	The nature of the Stingray nebula from radio observations. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1842-1849.	4.4	4
62	A Molecular Line Survey around Orion at Low Frequencies with the MWA. Astrophysical Journal, 2018, 860, 145.	4.5	4
63	Recent Science from Australian Large-Scale Millimetre Mapping Projects: Proceedings from a Swinburne University Workshop. Publications of the Astronomical Society of Australia, 2009, 26, 110-120.	3.4	3
64	HOPS: The H ₂ O Southern Galactic Plane Survey. EAS Publications Series, 2011, 52, 135-138.	0.3	3
65	Water masers and ammonia (1, 1) and (2, 2) towards six regions in the Carina Nebula. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2-13.	4.4	3
66	Measuring Filament Orientation: A New Quantitative, Local Approach. Astrophysical Journal, Supplement Series, 2017, 232, 6.	7.7	2
67	Low-Frequency Carbon Recombination Lines in the Orion Molecular Cloud Complex. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	2
68	Do dense molecular cores with broad emission spectra at $l \approx 5.4^\circ$, $b \approx 0.4^\circ$ trace the Galactic bar? A multimolecular line study from HOPS. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5896-5920.	4.4	1
69	The Mopra DQS survey of the G333 region. Proceedings of the International Astronomical Union, 2006, 2, 404-404.	0.0	0
70	VLBI OH maser polarimetry with the Australian Long Baseline Array: the star-forming region G340.054-0.244. Proceedings of the International Astronomical Union, 2007, 3, 64-65.	0.0	0
71	SpS1-From molecular clouds to massive stars. Proceedings of the International Astronomical Union, 2009, 5, 513-514.	0.0	0
72	Ammonia towards dust clumps in the giant molecular cloud associated with RCW 106. Proceedings of the International Astronomical Union, 2012, 8, 50-50.	0.0	0

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73	Millimetre molecular lines in Planck cold clumps. Proceedings of the International Astronomical Union, 2015, 11, 60-60.	0.0	0
74	High Mass Star Formation: Properties of NH_3 clumps in Southern Galactic Plane. Proceedings of the International Astronomical Union, 2015, 11, .	0.0	0
75	The chemistry and kinematics of two molecular clouds near Sagittarius A*. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1363-1389.	4.4	0
76	The role of automated methods for filament finding in understanding the complex relationship between filaments, magnetic fields and star formation. Proceedings of the International Astronomical Union, 2018, 14, 23-26.	0.0	0
77	HOW DO MASSIVE STARS FORM? INFALL & OUTFLOW IN DENSE CORES IN THE MILKY WAY. Publications of the Korean Astronomical Society, 2015, 30, 99-101.	0.0	0