

# Michael T Murphy

## List of Publications by Year in descending order

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80  
papers

4,295  
citations

109137

35  
h-index

110170

64  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Frequency Combs for Astronomical Observations. <i>Science</i> , 2008, 321, 1335-1337.	6.0	571
2	PRECISION MEASURES OF THE PRIMORDIAL ABUNDANCE OF DEUTERIUM. <i>Astrophysical Journal</i> , 2014, 781, 31.	1.6	275
3	Spatial variation in the fine-structure constant - new results from VLT/UVES. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 3370-3414.	1.6	217
4	Deuterium abundance in the most metal-poor damped Lyman alpha system: converging on $1.26 \pm 0.02$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 1499-1510.	1.6	151
5	The Giant Gemini GMOS survey of $z \approx 4.4$ quasars. I. Measuring the mean free path across cosmic time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1745-1760.	1.6	146
6	Strong Limit on a Variable Proton-to-Electron Mass Ratio from Molecules in the Distant Universe. <i>Science</i> , 2008, 320, 1611-1613.	6.0	136
7	The neutral hydrogen cosmological mass density at $z = 5$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 217-234.	1.6	135
8	New perspectives on strong $z \approx 0.5$ Mg II absorbers: are halo mass and equivalent width anticorrelated?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 495-512.	1.6	122
9	HALO GAS CROSS SECTIONS AND COVERING FRACTIONS OF Mg II ABSORPTION SELECTED GALAXIES. <i>Astronomical Journal</i> , 2008, 135, 922-927.	1.9	116
10	HALO GAS AND GALAXY DISK KINEMATICS DERIVED FROM OBSERVATIONS AND $\Lambda$ CDM SIMULATIONS OF Mg II ABSORPTION-SELECTED GALAXIES AT INTERMEDIATE REDSHIFT. <i>Astrophysical Journal</i> , 2010, 711, 533-558.	1.6	106
11	Metal-enriched, subkiloparsec gas clumps in the circumgalactic medium of a faint $z \approx 2.5$ galaxy.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 18-37.	1.6	104
12	Constraining Variations in the Fine-Structure Constant, Quark Masses and the Strong Interaction. <i>Lecture Notes in Physics</i> , 2004, , 131-150.	0.3	96
13	Stringent Null Constraint on Cosmological Evolution of the Proton-to-Electron Mass Ratio. <i>Physical Review Letters</i> , 2008, 101, 251304.	2.9	96
14	MASE: A New Data-Reduction Pipeline for the Magellan Echelle Spectrograph. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 1409-1418.	1.0	96
15	Morphological properties of $z \approx 0.5$ absorption-selected galaxies: the role of galaxy inclination. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 3118-3137.	1.6	86
16	MAGICAT I. THE Mg II ABSORBER-GALAXY CATALOG. <i>Astrophysical Journal</i> , 2013, 776, 114.	1.6	83
17	The thermal history of the intergalactic medium down to redshift $z = 1.5$ : a new curvature measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1916-1933.	1.6	83
18	The SINFONI Mg II Program for Line Emitters (SIMPLE): Discovering Starbursts near QSO Sight Lines. <i>Astrophysical Journal</i> , 2007, 669, L5-L8.	1.6	81

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19	Impact of instrumental systematic errors on fine-structure constant measurements with quasar spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 447, 446-462.	1.6	76
20	MAGiCAT V. ORIENTATION OF OUTFLOWS AND ACCRETION DETERMINE THE KINEMATICS AND COLUMN DENSITIES OF THE CIRCUMGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2015, 812, 83.	1.6	65
21	The Magellan uniform survey of damped Lyman $\hat{\pm}$ systems â€œ I. Cosmic metallicity evolutionâ€¦. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 482-501.	1.6	63
22	The UVES Spectral Quasar Absorption Database (SQUAD) data release 1: the first 10 million seconds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3458-3479.	1.6	59
23	Galaxy group at $z=0.3$ associated with the damped Lyman $\hat{\pm}$ system towards quasar Q1127-145. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 445-459.	1.6	57
24	Does the fine structure constant vary? A third quasar absorption sample consistent with varying $\hat{\pm}$ . <i>Astrophysics and Space Science</i> , 2003, 283, 565-575.	0.5	56
25	WAVELENGTH CALIBRATION OF THE VLT-UVES SPECTROGRAPH. <i>Astrophysical Journal</i> , 2010, 723, 89-99.	1.6	54
26	THE VLT SINFONI Mg ii PROGRAM FOR LINE EMITTERS (SIMPLE). II. BACKGROUND QUASARS PROBING $\$Zsim 1\$$ GALACTIC WINDS. <i>Astrophysical Journal</i> , 2015, 804, 83.	1.6	54
27	New constraint on cosmological variation of the proton-to-electron mass ratio from Q0528â”250. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 3010-3024.	1.6	53
28	The imperative to reduce carbon emissions in astronomy. <i>Nature Astronomy</i> , 2020, 4, 843-851.	4.2	51
29	A Correlation between Galaxy Morphology and MgiiHalo Absorption Strength. <i>Astrophysical Journal</i> , 2007, 662, 909-922.	1.6	49
30	MUSE Analysis of Gas around Galaxies (MAGG) â€œ II: metal-enriched halo gas around $\langle i \rangle z \langle /i \rangle \hat{\sim} 1$ galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5022-5046.	1.6	47
31	MAGiCAT VI. The Mg ii Intragroup Medium Is Kinematically Complex. <i>Astrophysical Journal</i> , 2018, 869, 153.	1.6	43
32	Laser frequency comb techniques for precise astronomical spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 761-771.	1.6	42
33	A new candidate for probing Population III nucleosynthesis with carbon-enhanced damped Ly $\hat{\pm}$ systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 347-354.	1.6	42
34	Laboratory atomic transition data for precise optical quasar absorption spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 438, 388-411.	1.6	40
35	Relationship between the Metallicity of the Circumgalactic Medium and Galaxy Orientation. <i>Astrophysical Journal</i> , 2019, 883, 78.	1.6	39
36	Subaru Telescope limits on cosmological variations in the fine-structure constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4930-4945.	1.6	38

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37	A new measurement of the intergalactic temperature at $z \approx 2.55 \pm 0.02$ . Monthly Notices of the Royal Astronomical Society, 2018, 474, 2871-2883.	1.6	37
38	MUSE Analysis of Gas around Galaxies (MAGG) I: Survey design and the environment of a near pristine gas cloud at $z \approx 3.5$ . Monthly Notices of the Royal Astronomical Society, 2020, 491, 2057-2074.	1.6	36
39	The Magellan uniform survey of damped Lyman $\alpha$ systems II. Paucity of strong molecular hydrogen absorption.... Monthly Notices of the Royal Astronomical Society, 2014, 443, 2783-2800.	1.6	30
40	Metal-enriched halo gas across galaxy overdensities over the last 10 billion years. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4573-4599.	1.6	30
41	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515+414. Astronomy and Astrophysics, 2022, 658, A123.	2.1	30
42	The clustering of luminous red galaxies around Mg II absorbers. Monthly Notices of the Royal Astronomical Society, 2004, 354, L25-L29.	1.6	27
43	Precise limits on cosmological variability of the fine-structure constant with zinc and chromium quasar absorption lines. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2461-2479.	1.6	27
44	The dust content of damped Lyman $\alpha$ systems in the Sloan Digital Sky Survey. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1043-1059.	1.6	27
45	MAGCAT IV. KINEMATICS OF THE CIRCUMGALACTIC MEDIUM AND EVIDENCE FOR QUIESCENT EVOLUTION AROUND RED GALAXIES. Astrophysical Journal, 2016, 818, 171.	1.6	26
46	DISCOVERY OF THE TRANSITION OF A MINI-BROAD ABSORPTION LINE INTO A BROAD ABSORPTION LINE IN THE SDSS QUASAR J115122.14+020426.3. Astrophysical Journal, 2013, 775, 14.	1.6	24
47	THE HIGHLY IONIZED CIRCUMGALACTIC MEDIUM IS KINEMATICALLY UNIFORM AROUND GALAXIES. Astrophysical Journal, 2017, 834, 148.	1.6	24
48	The outer halo globular clusters of M31. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 395, L34-L38.	1.2	23
49	Revisiting the origin of the high metallicities of sub-damped Lyman-alpha systems. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 396, L61-L65.	1.2	23
50	Possible Population III remnants at redshift 3.5. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 457, L44-L48.	1.2	23
51	A Unique View of AGN-driven Molecular Outflows: The Discovery of a Massive Galaxy Counterpart to a $z = 2.4$ High-metallicity Damped Ly $\alpha$ Absorber. Astrophysical Journal, 2017, 843, 98.	1.6	19
52	Exploring the origins of a new, apparently metal-free gas cloud at $z = 4.4$ . Monthly Notices of the Royal Astronomical Society, 2019, 483, 2736-2747.	1.6	19
53	Dust depletion, chemical uniformity and environment of Ca II H&K quasar absorbers. Monthly Notices of the Royal Astronomical Society, 2009, 392, 1429-1450.	1.6	18
54	A new analysis of fine-structure constant measurements and modelling errors from quasar absorption lines. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3082-3093.	1.6	18

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55	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. <i>Astronomy and Astrophysics</i> , 2021, 646, A144.	2.1	18
56	Evolution of C iv Absorbers. I. The Cosmic Incidence. <i>Astrophysical Journal</i> , 2020, 904, 44.	1.6	17
57	The kinematic signature of damped Lyman alpha systems: using the $D$ -index to screen for high column density $\text{H}\alpha$ absorbers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 998-1007.	1.6	16
58	Constraint on a variation of the proton-to-electron mass ratio from H2 absorption towards quasar Q2348+011. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, , no-no.	1.6	16
59	The explosion energy of early stellar populations: the Fe-peak element ratios in low-metallicity damped Ly $\alpha$ systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1625-1637.	1.6	14
60	Detailed elemental abundances of binary stars: searching for signatures of planet formation and atomic diffusion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1227-1240.	1.6	13
61	The CGM at Cosmic Noon with KCWI: Outflows from a Star-forming Galaxy at $z=2.071$ . <i>Astrophysical Journal</i> , 2020, 904, 164.	1.6	13
62	Imprints of the first billion years: Lyman limit systems at $z \sim 5$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1456-1470.	1.6	12
63	A NEW METHOD FOR DETECTING VELOCITY SHIFTS AND DISTORTIONS BETWEEN OPTICAL SPECTRA. <i>Astrophysical Journal</i> , 2013, 778, 173.	1.6	10
64	THE REDSHIFT DISTRIBUTION OF INTERVENING WEAK Mg II QUASAR ABSORBERS AND A CURIOUS DEPENDENCE ON QUASAR LUMINOSITY. <i>Astrophysical Journal</i> , 2013, 768, 3.	1.6	10
65	Constraining the temperature-density relation of the intergalactic medium with the Lyman $\alpha$ and $\text{H}\beta$ forests. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 456, L79-L83.	1.2	9
66	Mg ii Absorbers in High-resolution Quasar Spectra. I. Voigt Profile Models. <i>Astrophysical Journal</i> , 2020, 904, 28.	1.6	9
67	Evolution of C iv Absorbers. II. Where Does C iv Live?. <i>Astrophysical Journal</i> , 2022, 924, 12.	1.6	6
68	Survey for Distant Solar Twins (SDST) - I. A new method for stellar parameter measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 11-26.	1.6	6
69	Collaborative Workspaces to Accelerate Discovery. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	1.3	5
70	Search for Cosmological $\gamma$ -Variation from High-Redshift H2 Absorption; A Status Report. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2011, , 125-137.	0.3	5
71	Primordial Helium-3 Redux: The Helium Isotope Ratio of the Orion Nebula*. <i>Astrophysical Journal</i> , 2022, 932, 60.	1.6	5
72	Exploring variations in the fundamental constants with ELTs: the CODEX spectrograph on OWL. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 198-203.	0.0	4

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73	Probing the circumgalactic medium of active galactic nuclei with background quasars. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2861-2869.	1.6	4
74	Origin of Metals around Galaxies. I. Catalogs of Metal-line Absorption Doublets from High-resolution Quasar Spectra. Astrophysical Journal, 2018, 862, 50.	1.6	4
75	Low-mass Group Environments Have No Substantial Impact on the Circumgalactic Medium Metallicity. Astronomical Journal, 2020, 159, 216.	1.9	4
76	Fundamental physics with ESPRESSO: Constraints on Bekenstein and dark energy models from astrophysical and local probes. Physical Review D, 2022, 105, .	1.6	4
77	The Neutral Hydrogen Cosmological Mass Density at $z = 5$ . Proceedings of the International Astronomical Union, 2016, 11, 309-314.	0.0	1
78	Discovery of three new near-pristine absorption clouds at $z = 2.6 - 4.4$ . Monthly Notices of the Royal Astronomical Society, 2022, 514, 3559-3578.	1.6	1
79	Keck constraints on a varying fine-structure constant: wavelength calibration errors. Proceedings of the International Astronomical Union, 2009, 5, 315-315.	0.0	0
80	Gas Kinematics in the Multiphase Circumgalactic Medium. Proceedings of the International Astronomical Union, 2016, 11, 345-347.	0.0	0