Michael T Murphy

List of Publications by Year
in descending order

80 papers	4,295 citations	109321 35 h-index	110387 64 g-index
80 all docs	80 docs citations	80 times ranked	3424 citing authors

#	Article	IF	Citations
1	Evolution of C iv Absorbers. II. Where Does C iv Live?. Astrophysical Journal, 2022, 924, 12.	4.5	6
2	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515â^'4414. Astronomy and Astrophysics, 2022, 658, A123.	5.1	30
3	Survey for Distant Solar Twins (SDST) â€“ I. <scp>epic</scp> method for stellar parameter measurement. Monthly Notices of the Royal Astronomical Society, 2022, 512, 11-26.	4.4	6
4	Fundamental physics with ESPRESSO: Constraints on Bekenstein and dark energy models from astrophysical and local probes. Physical Review D, 2022, 105, .	4.7	4
5	Discovery of three new near-pristine absorption clouds at zÂ= 2.6â€“4.4. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3559-3578.	4.4	1
6	Primordial Helium-3 Redux: The Helium Isotope Ratio of the Orion Nebula*. Astrophysical Journal, 2022, 932, 60.	4.5	5
7	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. Astronomy and Astrophysics, 2021, 646, A144.	5.1	18
8	Detailed elemental abundances of binary stars: searching for signatures of planet formation and atomic diffusion. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1227-1240.	4.4	13
9	Metal-enriched halo gas across galaxy overdensities over the last 10 billion years. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4573-4599.	4.4	30
10	The imperative to reduce carbon emissions in astronomy. Nature Astronomy, 2020, 4, 843-851.	10.1	51
11	MUSE Analysis of Gas around Galaxies (MAGG) â€“ I: Survey design and the environment of a near pristine gas cloud at z â‰ˆ 3.5. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2057-2074.	4.4	36
12	MUSE Analysis of Gas around Galaxies (MAGG) â€“ II: metal-enriched halo gas around zÂâ^¼ 1 galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5022-5046.	4.4	47
13	Low-mass Group Environments Have No Substantial Impact on the Circumgalactic Medium Metallicity. Astronomical Journal, 2020, 159, 216.	4.7	4
14	Mg ii Absorbers in High-resolution Quasar Spectra. I. Voigt Profile Models. Astrophysical Journal, 2020, 904, 28.	4.5	9
15	Evolution of C iv Absorbers. I. The Cosmic Incidence. Astrophysical Journal, 2020, 904, 44.	4.5	17
16	The CGM at Cosmic Noon with KCWI: Outflows from a Star-forming Galaxy at zÂ=Â2.071. Astrophysical Journal, 2020, 904, 164.	4.5	13
17	Exploring the origins of a new, apparently metal-free gas cloud atzÂ= 4.4. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2736-2747.	4.4	19
18	Imprints of the first billion years: Lyman limit systems atzâ^¼ 5. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1456-1470.	4.4	12

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19	The UVES Spectral Quasar Absorption Database (SQUAD) data release 1: the first 10 million seconds. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3458-3479.	4.4	59
20	Relationship between the Metallicity of the Circumgalactic Medium and Galaxy Orientation. Astrophysical Journal, 2019, 883, 78.	4.5	39
21	MAGiiCAT VI. The Mg ii Intragroup Medium Is Kinematically Complex. Astrophysical Journal, 2018, 869, 153.	4.5	43
22	Origin of Metals around Galaxies. I. Catalogs of Metal-line Absorption Doublets from High-resolution Quasar Spectra. Astrophysical Journal, 2018, 862, 50.	4.5	4
23	A new measurement of the intergalactic temperature at zÂâˆ¼Â2.55â€“2.95. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2871-2883.	4.4	37
24	THE HIGHLY IONIZED CIRCUMGALACTIC MEDIUM IS KINEMATICALLY UNIFORM AROUND GALAXIES. Astrophysical Journal, 2017, 834, 148.	4.5	24
25	Collaborative Workspaces to Accelerate Discovery. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	5
26	Subaru Telescope limits on cosmological variations in the fine-structure constant. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4930-4945.	4.4	38
27	A Unique View of AGN-driven Molecular Outflows: The Discovery of a Massive Galaxy Counterpart to a ZÂ=Â2.4 High-metallicity Damped LyÎ± Absorber. Astrophysical Journal, 2017, 843, 98.	4.5	19
28	Gas Kinematics in the Multiphase Circumgalactic Medium. Proceedings of the International Astronomical Union, 2016, 11, 345-347.	0.0	0
29	The Neutral Hydrogen Cosmological Mass Density at z = 5. Proceedings of the International Astronomical Union, 2016, 11, 309-314.	0.0	1
30	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.	4.4	27
31	MAGiiCAT IV. KINEMATICS OF THE CIRCUMGALACTIC MEDIUM AND EVIDENCE FOR QUIESCENT EVOLUTION AROUND RED GALAXIES. Astrophysical Journal, 2016, 818, 171.	4.5	26
32	The dust content of damped Lyman Îα systems in the Sloan Digital Sky Survey. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1043-1059.	4.4	27
33	Possible Population III remnants at redshift 3.5. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 457, L44-L48.	3.3	23
34	MAGiiCAT V. ORIENTATION OF OUTFLOWS AND ACCRETION DETERMINE THE KINEMATICS AND COLUMN DENSITIES OF THE CIRCUMGALACTIC MEDIUM. Astrophysical Journal, 2015, 812, 83.	4.5	65
35	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.	4.4	18
36	The neutral hydrogen cosmological mass density atz= 5. Monthly Notices of the Royal Astronomical Society, 2015, 452, 217-234.	4.4	135

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37	Metal-enriched, subkiloparsec gas clumps in the circumgalactic medium of a faint zÂ=Â2.5 galaxyâ˜…. Monthly Notices of the Royal Astronomical Society, 2015, 446, 18-37.	4.4	104
38	THE VLT SINFONI Mg ii PROGRAM FOR LINE EMITTERS (SIMPLE). II. BACKGROUND QUASARS PROBING $Zsim 1$ GALACTIC WINDS. Astrophysical Journal, 2015, 804, 83.	4.5	54
39	Probing the circumgalactic medium of active galactic nuclei with background quasars. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2861-2869.	4.4	4
40	Constraining the temperatureâ€“density relation of the intergalactic medium with the LymanÂÎ± and Î² forests. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 456, L79-L83.	3.3	9
41	The Magellan uniform survey of damped Lyman Î± systems â€“ II. Paucity of strong molecular hydrogen absorptionâ˜…. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2783-2800.	4.4	30
42	The thermal history of the intergalactic medium down to redshift z = 1.5: a new curvature measurement. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1916-1933.	4.4	83
43	The Giant Gemini GMOS survey of zem > 4.4 quasars â€“ I. Measuring the mean free path across cosmic time. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1745-1760.	4.4	146
44	Impact of instrumental systematic errors on fine-structure constant measurements with quasar spectra. Monthly Notices of the Royal Astronomical Society, 2014, 447, 446-462.	4.4	76
45	PRECISION MEASURES OF THE PRIMORDIAL ABUNDANCE OF DEUTERIUM. Astrophysical Journal, 2014, 781, 31.	4.5	275
46	A NEW METHOD FOR DETECTING VELOCITY SHIFTS AND DISTORTIONS BETWEEN OPTICAL SPECTRA. Astrophysical Journal, 2013, 778, 173.	4.5	10
47	Laboratory atomic transition data for precise optical quasar absorption spectroscopy. Monthly Notices of the Royal Astronomical Society, 2013, 438, 388-411.	4.4	40
48	The Magellan uniform survey of damped Lyman Î± systems â€“ I. Cosmic metallicity evolutionâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 435, 482-501.	4.4	63
49	The explosion energy of early stellar populations: the Fe-peak element ratios in low-metallicity damped LyÎ± systemsâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1625-1637.	4.4	14
50	THE REDSHIFT DISTRIBUTION OF INTERVENING WEAK Mg II QUASAR ABSORBERS AND A CURIOUS DEPENDENCE ON QUASAR LUMINOSITY. Astrophysical Journal, 2013, 768, 3.	4.5	10
51	MAGIICAT I. THE Mg II ABSORBER-GALAXY CATALOG. Astrophysical Journal, 2013, 776, 114.	4.5	83
52	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.	4.5	24
53	Constraint on a variation of the proton-to-electron mass ratio from H2 absorption towards quasar Q2348â˜’011. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	4.4	16
54	Laser frequency comb techniques for precise astronomical spectroscopy. Monthly Notices of the Royal Astronomical Society, 2012, 422, 761-771.	4.4	42

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55	Spatial variation in the fine-structure constant - new results from VLT/UVES. Monthly Notices of the Royal Astronomical Society, 2012, 422, 3370-3414.	4.4	217
56	A new candidate for probing Population III nucleosynthesis with carbon-enhanced damped LyÎ± systems. Monthly Notices of the Royal Astronomical Society, 2012, 425, 347-354.	4.4	42
57	New constraint on cosmological variation of the proton-to-electron mass ratio from Q0528â˜250. Monthly Notices of the Royal Astronomical Society, 2011, 417, 3010-3024.	4.4	53
58	Morphological properties ofâ€,zâ¼ 0.5 absorption-selected galaxies: the role of galaxy inclination. Monthly Notices of the Royal Astronomical Society, 2011, 416, 3118-3137.	4.4	86
59	Search for Cosmological Î¼-Variation from High-Redshift H2 Absorption; A Status Report. Thirty Years of Astronomical Discovery With UKIRT, 2011, , 125-137.	0.3	5
60	HALO GAS AND GALAXY DISK KINEMATICS DERIVED FROM OBSERVATIONS AND Î›CDM SIMULATIONS OF Mg II ABSORPTION-SELECTED GALAXIES AT INTERMEDIATE REDSHIFT. Astrophysical Journal, 2010, 711, 533-558.	4.5	106
61	WAVELENGTH CALIBRATION OF THE VLT-UVES SPECTROGRAPH. Astrophysical Journal, 2010, 723, 89-99.	4.5	54
62	Galaxy group at z=0.3 associated with the damped Lyman Î± system towards quasar Q1127-145. Monthly Notices of the Royal Astronomical Society, 2010, 406, 445-459.	4.4	57
63	The kinematic signature of damped Lyman alpha systems: using theD-index to screen for high column density Hâ€fi absorbers^{â˜…}. Monthly Notices of the Royal Astronomical Society, 2009, 392, 998-1007.	4.4	16
64	Dust depletion, chemical uniformity and environment of Caâ€fii H&K quasar absorbers. Monthly Notices of the Royal Astronomical Society, 2009, 392, 1429-1450.	4.4	18
65	The outer halo globular clusters of M31. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 395, L34-L38.	3.3	23
66	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.	3.3	23
67	MASE: A New Data-Reduction Pipeline for the Magellan Echellette Spectrograph. Publications of the Astronomical Society of the Pacific, 2009, 121, 1409-1418.	3.1	96
68	Keck constraints on a varying fine-structure constant: wavelength calibration errors. Proceedings of the International Astronomical Union, 2009, 5, 315-315.	0.0	0
69	Deuterium abundance in the most metal-poor damped Lyman alpha system: converging on Î©_{b,0}h². Monthly Notices of the Royal Astronomical Society, 2008, 391, 1499-1510.	4.4	151
70	Laser Frequency Combs for Astronomical Observations. Science, 2008, 321, 1335-1337.	12.6	571
71	Strong Limit on a Variable Proton-to-Electron Mass Ratio from Molecules in the Distant Universe. Science, 2008, 320, 1611-1613.	12.6	136
72	Stringent Null Constraint on Cosmological Evolution of the Proton-to-Electron Mass Ratio. Physical Review Letters, 2008, 101, 251304.	7.8	96

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73	HALO GAS CROSS SECTIONS AND COVERING FRACTIONS OF Mg II ABSORPTION SELECTED GALAXIES. Astronomical Journal, 2008, 135, 922-927.	4.7	116
74	The SINFONI Mg <scp>ii</scp> Program for Line Emitters (SIMPLE): Discovering Starbursts near QSO Sight Lines. Astrophysical Journal, 2007, 669, L5-L8.	4.5	81
75	A Correlation between Galaxy Morphology and MgiiHalo Absorption Strength. Astrophysical Journal, 2007, 662, 909-922.	4.5	49
76	New perspectives on strong zâ‰ƒ 0.5 Mgâ€ƒii absorbers: are halo mass and equivalent width anticorrelated?. Monthly Notices of the Royal Astronomical Society, 2006, 371, 495-512.	4.4	122
77	Exploring variations in the fundamental constants with ELTs: the CODEX spectrograph on OWL. Proceedings of the International Astronomical Union, 2005, 1, 198-203.	0.0	4
78	Constraining Variationsin the Fine-Structure Constant, Quark Massesand the Strong Interaction. Lecture Notes in Physics, 2004, , 131-150.	0.7	96
79	The clustering of luminous red galaxies around Mgâ€ƒii absorbers. Monthly Notices of the Royal Astronomical Society, 2004, 354, L25-L29.	4.4	27
80	Does the fine structure constant vary? A third quasar absorption sample consistent with varying Î±. Astrophysics and Space Science, 2003, 283, 565-575.	1.4	56