

# Matthew G Walker

## List of Publications by Year in descending order

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102  
papers

8,015  
citations

44069

48  
h-index

46799

89  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stellar multiplicity and stellar rotation: insights from APOGEE. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2051-2061.	4.4	9
2	Two-point Separation Functions for Modeling Wide Binary Systems in Nearby Dwarf Galaxies. Astrophysical Journal, 2022, 929, 77.	4.5	2
3	Uniform modelling of the stellar density of thirteen tidal streams within the Galactic halo. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1757-1781.	4.4	1
4	Stellar kinematics of dwarf galaxies from multi-epoch spectroscopy: application to Triangulum II. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1706-1719.	4.4	5
5	Multiplicity Statistics of Stars in the Sagittarius Dwarf Spheroidal Galaxy: Comparison to the Milky Way. Astrophysical Journal Letters, 2022, 933, L18.	8.3	1
6	Dynamical masses and mass-to-light ratios of resolved massive star clusters â€“ II. Results for 26 star clusters in the Magellanic Clouds. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4160-4191.	4.4	22
7	Spectroscopic Confirmation of the Sixth Globular Cluster in the Fornax Dwarf Spheroidal Galaxy*. Astrophysical Journal, 2021, 923, 77.	4.5	12
8	The close binary fraction as a function of stellar parameters in APOGEE: a strong anticorrelation with $[Z]$ abundances. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1607-1626.	4.4	34
9	Structure formation models weaken limits on WIMP dark matter from dwarf spheroidal galaxies. Physical Review D, 2020, 102, .	4.7	28
10	Galaxy Cluster Mass Estimates in the Presence of Substructure. Astrophysical Journal, 2020, 888, 106.	4.5	4
11	Stellar Density Profiles of Dwarf Spheroidal Galaxies. Astrophysical Journal, 2020, 892, 27.	4.5	16
12	Breaking beta: a comparison of mass modelling methods for spherical systems. Monthly Notices of the Royal Astronomical Society, 2020, 501, 978-993.	4.4	20
13	The Most Metal-poor Stars in Omega Centauri (NGC 5139)*. Astronomical Journal, 2020, 159, 254.	4.7	14
14	A Larger Extent for the Ophiuchus Stream. Astronomical Journal, 2020, 159, 287.	4.7	8
15	Signatures of Tidal Disruption in Ultra-faint Dwarf Galaxies: A Combined HST, Gaia, and MMT/Hectochelle Study of Leo V. Astrophysical Journal, 2019, 885, 53.	4.5	15
16	Dynamical masses and mass-to-light ratios of resolved massive star clusters â€“ I. NGC 419 and NGC 1846. Monthly Notices of the Royal Astronomical Society, 2019, 490, 385-407.	4.4	8
17	The hidden giant: discovery of an enormous Galactic dwarf satellite in Gaia DR2. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2743-2766.	4.4	116
18	Dark matter heats up in dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1401-1420.	4.4	143

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19	Stellar Multiplicity Meets Stellar Evolution and Metallicity: The APOGEE View. <i>Astrophysical Journal</i> , 2018, 854, 147.	4.5	100
20	Systematics in virial mass estimators for pressure-supported systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5073-5090.	4.4	69
21	The Binary Fraction of Stars in Dwarf Galaxies: The Cases of Draco and Ursa Minor. <i>Astronomical Journal</i> , 2018, 156, 257.	4.7	39
22	The case for a cold dark matter cusp in Draco. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 860-877.	4.4	86
23	Detection of a Population of Carbon-enhanced Metal-poor Stars in the Sculptor Dwarf Spheroidal Galaxy. <i>Astrophysical Journal</i> , 2018, 856, 142.	4.5	29
24	Snake in the Clouds: a new nearby dwarf galaxy in the Magellanic bridge*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 5343-5361.	4.4	84
25	Exploring the Chemical Composition and Double Horizontal Branch of the Bulge Globular Cluster NGC 6569. <i>Astronomical Journal</i> , 2018, 155, 71.	4.7	21
26	Crater 2: An Extremely Cold Dark Matter Halo. <i>Astrophysical Journal</i> , 2017, 839, 20.	4.5	100
27	Chemical Complexity in the Eu-enhanced Monometallic Globular NGC 5986. <i>Astrophysical Journal</i> , 2017, 842, 24.	4.5	27
28	The Binary Fraction of Stars in Dwarf Galaxies: The Case of Leo II. <i>Astronomical Journal</i> , 2017, 153, 254.	4.7	32
29	A Chemical Composition Survey of the Iron-complex Globular Cluster NGC 6273 (M19)*. <i>Astrophysical Journal</i> , 2017, 836, 168.	4.5	36
30	Light and Heavy Element Abundance Variations in the Outer Halo Globular Cluster NGC 6229. <i>Astronomical Journal</i> , 2017, 154, 155.	4.7	22
31	A Multi-epoch Kinematic Study of the Remote Dwarf Spheroidal Galaxy Leo II. <i>Astrophysical Journal</i> , 2017, 836, 202.	4.5	24
32	Magellan/M2FS Spectroscopy of Galaxy Clusters: Stellar Population Model and Application to Abell 267. <i>Astronomical Journal</i> , 2017, 154, 113.	4.7	1
33	A Magellan M2FS Spectroscopic Survey of Galaxies at 5.5<math>\leq z \leq 6.8</math>: Program Overview and a Sample of the Brightest Ly $\alpha$ Emitters. <i>Astrophysical Journal</i> , 2017, 846, 134.	4.5	23
34	Space Motions of the Dwarf Spheroidal Galaxies Draco and Sculptor Based on HST Proper Motions with a $\sim 10$ yr Time Baseline. <i>Astrophysical Journal</i> , 2017, 849, 93.	4.5	37
35	An Expanded Chemo-dynamical Sample of Red Giants in the Bar of the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2017, 153, 261.	4.7	6
36	A HUBBLE SPACE TELESCOPE STUDY OF THE ENIGMATIC MILKY WAY HALO GLOBULAR CLUSTER CRATER*. <i>Astrophysical Journal</i> , 2016, 822, 32.	4.5	34

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37	Dark matter annihilation factors in the Milky Way's dwarf spheroidal galaxies. Journal of Physics: Conference Series, 2016, 718, 042005.	0.4	1
38	DETAILED CHEMICAL ABUNDANCES IN THE r-PROCESS-RICH ULTRA-FAINT DWARF GALAXY RETICULUM 2*. Astronomical Journal, 2016, 151, 82.	4.7	144
39	MAGELLAN/M2FS SPECTROSCOPY OF TUCANA 2 AND GRUS 1*. Astrophysical Journal, 2016, 819, 53.	4.5	100
40	Contamination of stellar-kinematic samples and uncertainty about dark matter annihilation profiles in ultrafaint dwarf galaxies: the example of Segue I. Monthly Notices of the Royal Astronomical Society, 2016, 462, 223-234.	4.4	32
41	Wide binaries in ultrafaint galaxies: a window on to dark matter on the smallest scales. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 461, L72-L76.	3.3	25
42	Solo dwarfs I: survey introduction and first results for the Sagittarius dwarf irregular galaxy. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1678-1695.	4.4	22
43	EVIDENCE THAT HYDRA I IS A TIDALLY DISRUPTING MILKY WAY DWARF GALAXY. Astrophysical Journal, 2016, 818, 39.	4.5	7
44	The SLUGGS survey: multipopulation dynamical modelling of the elliptical galaxy NGC 1407 from stars and globular clusters. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3345-3358.	4.4	24
45	Comprehensive search for dark matter annihilation in dwarf galaxies. Physical Review D, 2015, 91, .	4.7	111
46	Indication of Gamma-Ray Emission from the Newly Discovered Dwarf Galaxy Reticulum II. Physical Review Letters, 2015, 115, 081101.	7.8	121
47	DARK MATTER ANNIHILATION AND DECAY PROFILES FOR THE RETICULUM II DWARF SPHEROIDAL GALAXY. Astrophysical Journal Letters, 2015, 808, L36.	8.3	58
48	Bayesian analysis of resolved stellar spectra: application to MMT/Hectochelle observations of the Draco dwarf spheroidal. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2717-2732.	4.4	70
49	Dark matter annihilation and decay in dwarf spheroidal galaxies: the classical and ultrafaint dSphs. Monthly Notices of the Royal Astronomical Society, 2015, 453, 849-867.	4.4	136
50	DWARF GALAXY ANNIHILATION AND DECAY EMISSION PROFILES FOR DARK MATTER EXPERIMENTS. Astrophysical Journal, 2015, 801, 74.	4.5	172
51	Faint dwarfs as a test of DM models: WDM versus CDM. Monthly Notices of the Royal Astronomical Society, 2015, 448, 792-803.	4.4	76
52	MAGELLAN/M2FS SPECTROSCOPY OF THE RETICULUM 2 DWARF SPHEROIDAL GALAXY. Astrophysical Journal, 2015, 808, 108.	4.5	78
53	A low pre-infall mass for the Carina dwarf galaxy from disequilibrium modelling. Nature Communications, 2015, 6, 7599.	12.8	27
54	Insights from the outskirts: Chemical and dynamical properties in the outer parts of the Fornax dwarf spheroidal galaxy. Astronomy and Astrophysics, 2014, 572, A82.	5.1	37

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55	Spherical Jeans analysis for dark matter indirect detection in dwarf spheroidal galaxies - impact of physical parameters and triaxiality. Monthly Notices of the Royal Astronomical Society, 2014, 446, 3002-3021.	4.4	71
56	THE METAL-POOR KNEE IN THE FORNAX DWARF SPHEROIDAL GALAXY. Astrophysical Journal, 2014, 785, 102.	4.5	41
57	Is the universe simpler than $\Lambda$ CDM?. Contemporary Physics, 2014, 55, 198-211.	1.8	16
58	A dynamical model of the local cosmic expansion. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2204-2222.	4.4	77
59	Dark Matter in the Galactic Dwarf Spheroidal Satellites. , 2013, , 1039-1089.		49
60	Measuring the slopes of mass profiles for dwarf spheroidals in triaxial cold dark matter potentials. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 433, L54-L58.	3.3	32
61	MAIN-SEQUENCE STAR POPULATIONS IN THE VIRGO OVERDENSITY REGION. Astrophysical Journal, 2013, 769, 14.	4.5	10
62	Constraining self-interacting dark matter with the Milky Way's dwarf spheroidals. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 431, L20-L24.	3.3	326
63	The cold veil of the Milky Way stellar halo. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2840-2853.	4.4	111
64	A STATISTICAL METHOD FOR MEASURING THE GALACTIC POTENTIAL AND TESTING GRAVITY WITH COLD TIDAL STREAMS. Astrophysical Journal, 2012, 760, 2.	4.5	31
65	THE COUPLING BETWEEN THE CORE/CUSP AND MISSING SATELLITE PROBLEMS. Astrophysical Journal Letters, 2012, 759, L42.	8.3	191
66	The star formation and chemical evolution history of the Fornax dwarf spheroidal galaxy. Astronomy and Astrophysics, 2012, 544, A73.	5.1	132
67	Dwarf spheroidal galaxy kinematics and spiral galaxy scaling laws. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2034-2041.	4.4	119
68	A METHOD FOR MEASURING (SLOPES OF) THE MASS PROFILES OF DWARF SPHEROIDAL GALAXIES. Astrophysical Journal, 2011, 742, 20.	4.5	548
69	ACCURATE STELLAR KINEMATICS AT FAINT MAGNITUDES: APPLICATION TO THE BOÖTES I DWARF SPHEROIDAL GALAXY. Astrophysical Journal, 2011, 736, 146.	4.5	159
70	DARK MATTER IN THE CLASSICAL DWARF SPHEROIDAL GALAXIES: A ROBUST CONSTRAINT ON THE ASTROPHYSICAL FACTOR FOR $\gamma$ -RAY FLUX CALCULATIONS. Astrophysical Journal Letters, 2011, 733, L46.	8.3	41
71	Dark matter profiles and annihilation in dwarf spheroidal galaxies: perspectives for present and future $\gamma$ -ray observatories - I. The classical dwarf spheroidal galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1526-1556.	4.4	88
72	Disentangling the Stellar Populations of Fornax Dwarf Spheroidal. EAS Publications Series, 2011, 48, 69-70.	0.3	1

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73	On Dark Matter in Dwarf Spheroidal Galaxies. EAS Publications Series, 2011, 48, 425-434.	0.3	0
74	COMPARING THE DARK MATTER HALOS OF SPIRAL, LOW SURFACE BRIGHTNESS, AND DWARF SPHEROIDAL GALAXIES. Astrophysical Journal Letters, 2010, 717, L87-L91.	8.3	46
75	Massive black holes lurking in Milky Way satellites. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1139-1146.	4.4	86
76	The impact of dark matter cusps and cores on the satellite galaxy population around spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	135
77	Searching for dark matter in X-rays: how to check the dark matter origin of a spectral feature. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1188-1202.	4.4	31
78	Are Stellar Over-Densities in Dwarf Galaxies the "Smoking Gun" of Triaxial Dark Matter Haloes?. , 2010, , .		0
79	BIG FISH, LITTLE FISH: TWO NEW ULTRA-FAINT SATELLITES OF THE MILKY WAY. Astrophysical Journal Letters, 2010, 712, L103-L106.	8.3	168
80	LEO V: SPECTROSCOPY OF A DISTANT AND DISTURBED SATELLITE. Astrophysical Journal, 2009, 694, L144-L147.	4.5	69
81	Streaming motion in Leo I. Annals of Applied Statistics, 2009, 3, .	1.1	8
82	A UNIVERSAL MASS PROFILE FOR DWARF SPHEROIDAL GALAXIES?. Astrophysical Journal, 2009, 704, 1274-1287.	4.5	535
83	STELLAR VELOCITIES IN THE CARINA, FORNAX, SCULPTOR, AND SEXTANS dSph GALAXIES: DATA FROM THE MAGELLAN/MMFS SURVEY. Astronomical Journal, 2009, 137, 3100-3108.	4.7	221
84	CLEAN KINEMATIC SAMPLES IN DWARF SPHEROIDALS: AN ALGORITHM FOR EVALUATING MEMBERSHIP AND ESTIMATING DISTRIBUTION PARAMETERS WHEN CONTAMINATION IS PRESENT. Astronomical Journal, 2009, 137, 3109-3138.	4.7	105
85	Tidal disruption of globular clusters in dwarf galaxies with triaxial dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1275-1292.	4.4	56
86	The discovery of Segue 2: a prototype of the population of satellites of satellites. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1748-1755.	4.4	165
87	Cores and cusps in the dwarf spheroidals. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 393, L50-L54.	3.3	73
88	The star formation history of the Fornax dwarf spheroidal galaxy. Proceedings of the International Astronomical Union, 2009, 5, 353-354.	0.0	0
89	A common mass scale for satellite galaxies of the Milky Way. Nature, 2008, 454, 1096-1097.	27.8	424
90	Model-Independent Estimates of Dark Matter Distributions. Journal of the American Statistical Association, 2008, 103, 1070-1084.	3.1	2

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91	Systemic Proper Motions of Milky Way Satellites from Stellar Redshifts: The Carina, Fornax, Sculptor, and Sextans Dwarf Spheroidals. <i>Astrophysical Journal</i> , 2008, 688, L75-L78.	4.5	75
92	The Velocity Dispersion Profile of the Remote Dwarf Spheroidal Galaxy Leo I: A Tidal Hit and Run?. <i>Astrophysical Journal</i> , 2008, 675, 201-233.	4.5	159
93	Leo V: A Companion of a Companion of the Milky Way Galaxy?. <i>Astrophysical Journal</i> , 2008, 686, L83-L86.	4.5	134
94	Velocity Dispersion Profiles of Seven Dwarf Spheroidal Galaxies. <i>Astrophysical Journal</i> , 2007, 667, L53-L56.	4.5	252
95	NGC 5548 in a Low-Luminosity State: Implications for the Broad-Line Region. <i>Astrophysical Journal</i> , 2007, 662, 205-212.	4.5	90
96	The Michigan/MIKE Fiber System Survey of Stellar Radial Velocities in Dwarf Spheroidal Galaxies: Acquisition and Reduction of Data. <i>Astrophysical Journal</i> , Supplement Series, 2007, 171, 389-418.	7.7	31
97	On Kinematic Substructure in the Sextans Dwarf Spheroidal Galaxy. <i>Astrophysical Journal</i> , 2006, 642, L41-L44.	4.5	64
98	The Nature of the Density Clump in the Fornax Dwarf Spheroidal Galaxy. <i>Astronomical Journal</i> , 2006, 131, 912-921.	4.7	33
99	The Mass of the Black Hole in the Seyfert 1 Galaxy NGC 4593 from Reverberation Mapping. <i>Astrophysical Journal</i> , 2006, 653, 152-158.	4.5	106
100	Internal Kinematics of the Fornax Dwarf Spheroidal Galaxy. <i>Astronomical Journal</i> , 2006, 131, 2114-2139.	4.7	186
101	A Reverberation-based Mass for the Central Black Hole in NGC 4151. <i>Astrophysical Journal</i> , 2006, 651, 775-781.	4.5	169
102	Estimating Dark Matter Distributions. <i>Astrophysical Journal</i> , 2005, 626, 145-158.	4.5	26