Martin D Weinberg

List of Publications by Year
in descending order

75	6,822	71102 41	98798 67
papers	citations	h-index	g-index

77	77	77	4851
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Optical and Nearâ€Infrared Properties of Galaxies. I. Luminosity and Stellar Mass Functions. Astrophysical Journal, Supplement Series, 2003, 149, 289-312.	7.7	1,835
2	A Two Micron All Sky Survey View of the Sagittarius Dwarf Galaxy. I. Morphology of the Sagittarius Core and Tidal Arms. Astrophysical Journal, 2003, 599, 1082-1115.	4.5	836
3	Evolution of globular clusters in the Galaxy. Astrophysical Journal, 1990, 351, 121.	4.5	266
4	Evolution of barred galaxies by dynamical friction. Monthly Notices of the Royal Astronomical Society, 1985, 213, 451-471.	4.4	238
5	Barâ€driven Dark Halo Evolution: A Resolution of the Cuspâ€Core Controversy. Astrophysical Journal, 2002, 580, 627-633.	4.5	182
6	Stellar Populations in the Large Magellanic Cloud from 2MASS. Astrophysical Journal, 2000, 542, 804-818.	4.5	172
7	The Morphological Diversities among Starâ€forming Galaxies at High Redshifts in the Great Observatories Origins Deep Survey. Astrophysical Journal, 2006, 652, 963-980.	4.5	139
8	A Two Micron All Sky Survey View of the Sagittarius Dwarf Galaxy. II. Swope Telescope Spectroscopy of M Giant Stars in the Dynamically Cold Sagittarius Tidal Stream. Astronomical Journal, 2004, 128, 245-259.	4.7	136
9	A First Estimate of the Baryonic Mass Function of Galaxies. Astrophysical Journal, 2003, 585, L117-L120.	4.5	134
10	Self-gravitating response of a spherical galaxy to sinking satellites. Monthly Notices of the Royal Astronomical Society, 1989, 239, 549-569.	4.4	120
11	Detection of a large-scale stellar bar in the Milky Way. Astrophysical Journal, 1992, 384, 81.	4.5	119
12	Structural properties of central galaxies in groups and clusters. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1129-1149.	4.4	114
13	Inferring the Andromeda Galaxy's mass from its giant southern stream with Bayesian simulation sampling. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2779-2802.	4.4	109
14	Bar-spheroid interaction in galaxies. Astrophysical Journal, 1992, 400, 80.	4.5	108
15	On the origin of cold dark matter halo density profiles. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1931-1940.	4.4	100
16	A Bayesian approach to the semi-analytic model of galaxy formation: methodology. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1949-1964.	4.4	99
17	A Magellanic Origin for the Warp of the Galaxy. Astrophysical Journal, 2006, 641, L33-L36.	4.5	94
18	Bar-induced evolution of dark matter cusps. Monthly Notices of the Royal Astronomical Society, 2005, 363, 991-1007.	4.4	87

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19	Structure of the Large Magellanic Cloud from 2MASS. Astrophysical Journal, 2001, 548, 712-726.	4.5	87
20	Adiabatic invariants in stellar dynamics. 2: Gravitational shocking. Astronomical Journal, 1994, 108, 1403.	4.7	78
21	The bar-halo interaction - I. From fundamental dynamics to revised N-body requirements. Monthly Notices of the Royal Astronomical Society, 2007, 375, 425-459.	4.4	73
22	Weakly damped modes in star clusters and galaxies. Astrophysical Journal, 1994, 421, 481.	4.5	72
23	The bar-halo interaction - II. Secular evolution and the religion of N-body simulations. Monthly Notices of the Royal Astronomical Society, 2007, 375, 460-476.	4.4	66
24	Generation of mock tidal streams. Monthly Notices of the Royal Astronomical Society, 2015, 452, 301-319.	4.4	66
25	Adiabatic invariants in stellar dynamics. 1: Basic concepts. Astronomical Journal, 1994, 108, 1398.	4.7	66
26	Effect of the Milky Way on Magellanic Cloud Structure. Astrophysical Journal, 2000, 532, 922-935.	4.5	65
27	Bayesian inference of galaxy formation from theK-band luminosity function of galaxies: tensions between theory and observation. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1779-1796.	4.4	63
28	An empirical model for the star formation history in dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 439, 1294-1312.	4.4	61
29	Production of Milky Way Structure by the Magellanic Clouds. Astrophysical Journal, 1995, 455, .	4.5	57
30	An Adaptive Algorithm for [ITAL]N[/ITAL]-Body Field Expansions. Astronomical Journal, 1999, 117, 629-637.	4.7	56
31	An Upper Limit to the Age of the Galactic Bar. Astrophysical Journal, 2002, 574, L43-L46.	4.5	56
32	The dynamics of tidal tails from massive satellites. Monthly Notices of the Royal Astronomical Society, 0, 381, 987-1000.	4.4	55
33	A Rigorous Reanalysis of theIRASVariable Population: Scale Lengths, Asymmetries, and Microlensing. Astrophysical Journal, 1997, 487, 885-895.	4.5	53
34	Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Wayâ€™s Dark Matter Halo Using Basis Function Expansions. Astrophysical Journal, 2021, 919, 109.	4.5	52
35	Nonlocal and collective relaxation in stellar systems. Astrophysical Journal, 1993, 410, 543.	4.5	52
36	The Galaxy Angular Correlation Functions and Power Spectrum from the Two Micron All Sky Survey. Astrophysical Journal, 2005, 619, 147-160.	4.5	49

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37	Adiabatic invariants in stellar dynamics, 3: Application to globular cluster evolution. Astronomical Journal, 1994, 108, 1414.	4.7	49
38	Vertical oscillation of the Galactic disk. Astrophysical Journal, 1991, 373, 391.	4.5	48
39	Fluctuations in finite-N equilibrium stellar systems. Monthly Notices of the Royal Astronomical Society, 1998, 297, 101-107.	4.4	47
40	Perturbations of Spherical Stellar Systems during Flyby Encounters. Astrophysical Journal, 2000, 534, 598-623.	4.5	47
41	Computing the Bayes Factor from a Markov Chain Monte Carlo Simulation of the Posterior Distribution. Bayesian Analysis, 2012, 7, .	3.0	45
42	A Global Photometric Analysis of 2MASS Calibration Data. Astronomical Journal, 2000, 120, 3340-3350.	4.7	43
43	Kinematic signature of a rotating bar near a resonance. Astrophysical Journal, 1994, 420, 597.	4.5	42
44	Star formation and stellar mass assembly in dark matter haloes: from giants to dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1604-1617.	4.4	38
45	Limits on cluster binaries. Astrophysical Journal, 1991, 372, 487.	4.5	37
46	The Clustering Dipole of the Local Universe from the Two Micron All Sky Survey. Astrophysical Journal, 2003, 598, L1-L5.	4.5	36
47	The dynamics of satellite disruption in cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2009, 400, 1247-1263.	4.4	36
48	Noise-driven evolution in stellar systems - I. Theory. Monthly Notices of the Royal Astronomical Society, 2001, 328, 311-320.	4.4	34
49	Bayesian inferences of galaxy formation from the K-band luminosity and Hâ€‰i mass functions of galaxies: constraining star formation and feedback. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1252-1266.	4.4	34
50	New insights into galaxy structure from galphat- I. Motivation, methodology and benchmarks for SÃ©rsic models. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1625-1655.	4.4	29
51	Noise-driven evolution in stellar systems - II. A universal halo profile. Monthly Notices of the Royal Astronomical Society, 2001, 328, 321-329.	4.4	25
52	The Cosmological Significance of Highâ€Velocity Cloud Complex H. Astrophysical Journal, 2006, 640, 270-281.	4.5	23
53	Dark matter trapping by stellar bars: the shadow bar. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1952-1967.	4.4	21
54	Theoretical implications of wide binary observations. Astrophysical Journal, 1987, 312, 390.	4.5	21

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55	Wide binaries in the Woolley catalog. Astrophysical Journal, 1991, 382, 149.	4.5	18
56	Using torque to understand barred galaxy models. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3616-3632.	4.4	17
57	The Fate of Cannibalized Fundamentalâ€Plane Elliptical Galaxies. Astrophysical Journal, 1997, 478, 435-445.	4.5	17
58	Nature and completeness of galaxies detected in the Two Micron All Sky Survey. Monthly Notices of the Royal Astronomical Society, 2006, 373, 1321-1338.	4.4	16
59	Using commensurabilities and orbit structure to understand barred galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2020, 500, 838-858.	4.4	12
60	Separatrix divergence of stellar streams in galactic potentials. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1791-1802.	4.4	12
61	Direct Simulation Monte Carlo for astrophysical flows â€“ II. Ram-pressure dynamics. Monthly Notices of the Royal Astronomical Society, 2014, 438, 3007-3023.	4.4	11
62	On the algorithms of radiative cooling in semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	4.4	9
63	<scp>exp</scp>: N-body integration using basis function expansions. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6201-6217.	4.4	9
64	Computational statistics using the Bayesian Inference Engine. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1736-1755.	4.4	8
65	Dynamical response of dark matter to galaxy evolution affects direct-detection experiments. Physical Review D, 2016, 94, .	4.7	8
66	Direct Simulation Monte Carlo for astrophysical flows â€“ I. Motivation and methodology. Monthly Notices of the Royal Astronomical Society, 2014, 438, 2995-3006.	4.4	7
67	Using multichannel singular spectrum analysis to study galaxy dynamics. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5408-5423.	4.4	6
68	The Warp and Spiral Arms of the Milky Way. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 85-90.	0.3	1
69	The Shape of the Disk: Clues from the Kinematics of Disk Stars. Symposium - International Astronomical Union, 1996, 169, 11-21.	0.1	0
70	The Dynamics of the Galactic Bar. International Astronomical Union Colloquium, 1996, 157, 516-528.	0.1	0
71	Investigating the long-term evolution of galaxies: Noise, cuspy halos and bars. Symposium - International Astronomical Union, 2003, 208, 215-226.	0.1	0
72	Dark Matter Constraints from the Sagittarius Dwarf and Tail System. Symposium - International Astronomical Union, 2004, 220, 189-194.	0.1	0

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73	Bayesian Predictions from the Semi-analytic Models of Galaxy Formation. Lecture Notes in Statistics, 2012, , 523-525.	0.2	0
74	The Shape of the Disk: Clues from the Kinematics of Disk Stars. , 1996, , 11-21.		0
75	Evolution of galaxies due to self-excitation. , 0, , .		0