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	<scp>exp</scp>: N-body integration using basis function expansions. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6201-6217.	4.4	9
2	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
3	Using multichannel singular spectrum analysis to study galaxy dynamics. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5408-5423.	4.4	6
4	Using commensurabilities and orbit structure to understand barred galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2020, 500, 838-858.	4.4	12
5	Separatrix divergence of stellar streams in galactic potentials. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1791-1802.	4.4	12
6	Using torque to understand barred galaxy models. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3616-3632.	4.4	17
7	Dark matter trapping by stellar bars: the shadow bar. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1952-1967.	4.4	21
8	Dynamical response of dark matter to galaxy evolution affects direct-detection experiments. Physical Review D, 2016, 94, .	4.7	8
9	Generation of mock tidal streams. Monthly Notices of the Royal Astronomical Society, 2015, 452, 301-319.	4.4	66
10	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
11	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
12	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
13	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
14	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
15	Computational statistics using the Bayesian Inference Engine. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1736-1755.	4.4	8
16	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
17	Computing the Bayes Factor from a Markov Chain Monte Carlo Simulation of the Posterior Distribution. Bayesian Analysis, 2012, 7, .	3.0	45
18	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

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19	Bayesian Predictions from the Semi-analytic Models of Galaxy Formation. Lecture Notes in Statistics, 2012, , 523-525.	0.2	0
20	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
21	On the algorithms of radiative cooling in semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	4.4	9
22	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
23	Structural properties of central galaxies in groups and clusters. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1129-1149.	4.4	114
24	The dynamics of satellite disruption in cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2009, 400, 1247-1263.	4.4	36
25	The Warp and Spiral Arms of the Milky Way. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 85-90.	0.3	1
26	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
27	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
28	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
29	A Magellanic Origin for the Warp of the Galaxy. Astrophysical Journal, 2006, 641, L33-L36.	4.5	94
30	The Cosmological Significance of Highâ€Velocity Cloud Complex H. Astrophysical Journal, 2006, 640, 270-281.	4.5	23
31	On the origin of cold dark matter halo density profiles. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1931-1940.	4.4	100
32	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
33	Bar-induced evolution of dark matter cusps. Monthly Notices of the Royal Astronomical Society, 2005, 363, 991-1007.	4.4	87
34	The Galaxy Angular Correlation Functions and Power Spectrum from the Two Micron All Sky Survey. Astrophysical Journal, 2005, 619, 147-160.	4.5	49
35	Dark Matter Constraints from the Sagittarius Dwarf and Tail System. Symposium - International Astronomical Union, 2004, 220, 189-194.	0.1	0
36	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

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37	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
38	The Clustering Dipole of the Local Universe from the Two Micron All Sky Survey. Astrophysical Journal, 2003, 598, L1-L5.	4.5	36
39	Investigating the long-term evolution of galaxies: Noise, cuspy halos and bars. Symposium - International Astronomical Union, 2003, 208, 215-226.	0.1	0
40	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
41	A First Estimate of the Baryonic Mass Function of Galaxies. Astrophysical Journal, 2003, 585, L117-L120.	4.5	134
42	An Upper Limit to the Age of the Galactic Bar. Astrophysical Journal, 2002, 574, L43-L46.	4.5	56
43	Barâ€driven Dark Halo Evolution: A Resolution of the Cuspâ€Core Controversy. Astrophysical Journal, 2002, 580, 627-633.	4.5	182
44	Noise-driven evolution in stellar systems - I. Theory. Monthly Notices of the Royal Astronomical Society, 2001, 328, 311-320.	4.4	34
45	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
46	Structure of the Large Magellanic Cloud from 2MASS. Astrophysical Journal, 2001, 548, 712-726.	4.5	87
47	Perturbations of Spherical Stellar Systems during Flyby Encounters. Astrophysical Journal, 2000, 534, 598-623.	4.5	47
48	A Global Photometric Analysis of 2MASS Calibration Data. Astronomical Journal, 2000, 120, 3340-3350.	4.7	43
49	Effect of the Milky Way on Magellanic Cloud Structure. Astrophysical Journal, 2000, 532, 922-935.	4.5	65
50	Stellar Populations in the Large Magellanic Cloud from 2MASS. Astrophysical Journal, 2000, 542, 804-818.	4.5	172
51	An Adaptive Algorithm for [ITAL]N[/ITAL]-Body Field Expansions. Astronomical Journal, 1999, 117, 629-637.	4.7	56
52	Fluctuations in finite-N equilibrium stellar systems. Monthly Notices of the Royal Astronomical Society, 1998, 297, 101-107.	4.4	47
53	The Fate of Cannibalized Fundamentalâ€Plane Elliptical Galaxies. Astrophysical Journal, 1997, 478, 435-445.	4.5	17
54	A Rigorous Reanalysis of theIRASVariable Population: Scale Lengths, Asymmetries, and Microlensing. Astrophysical Journal, 1997, 487, 885-895.	4.5	53

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55	The Shape of the Disk: Clues from the Kinematics of Disk Stars. Symposium - International Astronomical Union, 1996, 169, 11-21.	0.1	0
56	The Dynamics of the Galactic Bar. International Astronomical Union Colloquium, 1996, 157, 516-528.	0.1	0
57	The Shape of the Disk: Clues from the Kinematics of Disk Stars. , 1996, , 11-21.		0
58	Production of Milky Way Structure by the Magellanic Clouds. Astrophysical Journal, 1995, 455, .	4.5	57
59	Adiabatic invariants in stellar dynamics. 1: Basic concepts. Astronomical Journal, 1994, 108, 1398.	4.7	66
60	Adiabatic invariants in stellar dynamics. 2: Gravitational shocking. Astronomical Journal, 1994, 108, 1403.	4.7	78
61	Adiabatic invariants in stellar dynamics, 3: Application to globular cluster evolution. Astronomical Journal, 1994, 108, 1414.	4.7	49
62	Kinematic signature of a rotating bar near a resonance. Astrophysical Journal, 1994, 420, 597.	4.5	42
63	Weakly damped modes in star clusters and galaxies. Astrophysical Journal, 1994, 421, 481.	4.5	72
64	Nonlocal and collective relaxation in stellar systems. Astrophysical Journal, 1993, 410, 543.	4.5	52
65	Detection of a large-scale stellar bar in the Milky Way. Astrophysical Journal, 1992, 384, 81.	4.5	119
66	Bar-spheroid interaction in galaxies. Astrophysical Journal, 1992, 400, 80.	4.5	108
67	Limits on cluster binaries. Astrophysical Journal, 1991, 372, 487.	4.5	37
68	Vertical oscillation of the Galactic disk. Astrophysical Journal, 1991, 373, 391.	4.5	48
69	Wide binaries in the Woolley catalog. Astrophysical Journal, 1991, 382, 149.	4.5	18
70	Evolution of globular clusters in the Galaxy. Astrophysical Journal, 1990, 351, 121.	4.5	266
71	Self-gravitating response of a spherical galaxy to sinking satellites. Monthly Notices of the Royal Astronomical Society, 1989, 239, 549-569.	4.4	120
72	Theoretical implications of wide binary observations. Astrophysical Journal, 1987, 312, 390.	4.5	21

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73	Evolution of barred galaxies by dynamical friction. Monthly Notices of the Royal Astronomical Society, 1985, 213, 451-471.	4.4	238
74	The dynamics of tidal tails from massive satellites. Monthly Notices of the Royal Astronomical Society, 0, 381, 987-1000.	4.4	55
75	Evolution of galaxies due to self-excitation. , 0, , .		0