

# Douglas C Heggie

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,155  
citations

361413

20  
h-index

377865

34  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1700  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of fly-bys on planetary systems. Monthly Notices of the Royal Astronomical Society, 2011, 411, 859-877.	4.4	178
2	Dynamical evolution of black hole subsystems in idealized star clusters. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2779-2797.	4.4	150
3	A multiphysics and multiscale software environment for modeling astrophysical systems. New Astronomy, 2009, 14, 369-378.	1.8	146
4	The life cycle of star clusters in a tidal field. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2509-2524.	4.4	146
5	Tidal tails of star clusters. Monthly Notices of the Royal Astronomical Society, 2010, 401, 105-120.	4.4	135
6	More on the structure of tidal tails. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2700-2714.	4.4	125
7	On the structure of tidal tails. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1248-1252.	4.4	99
8	Peculiarities in velocity dispersion and surface density profiles of star clusters. Monthly Notices of the Royal Astronomical Society, 0, 407, 2241-2260.	4.4	97
9	On the mass-radius relation of hot stellar systems. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 408, L16-L20.	3.3	83
10	Monte Carlo simulations of star clusters - VII. The globular cluster 47 Tuc. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2698-2713.	4.4	70
11	Monte Carlo simulations of star clusters IV. Calibration of the Monte Carlo code and comparison with observations for the open cluster M67. Monthly Notices of the Royal Astronomical Society, 2008, 388, 429-443.	4.4	53
12	Towards an N-body model for the globular cluster M4. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3435-3443.	4.4	46
13	The tidal tails of 47 Tucanae. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2845-2853.	4.4	36
14	molca code for star cluster simulations - III. Stellar-mass black holes in the globular cluster M22. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2459-2467.	4.4	32
15	MODEST-2: a summary. New Astronomy, 2003, 8, 605-628.	1.8	31
16	1 Gyr in the life of the globular cluster NGC 6397. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 397, L46-L50.	3.3	30
17	Bifurcation at complex instability. Celestial Mechanics, 1985, 35, 357-382.	0.1	26
18	Two homological models for the evolution of star clusters. Monthly Notices of the Royal Astronomical Society, 1988, 230, 223-241.	4.4	26

#	ARTICLE	IF	CITATIONS
19	Evolution of star clusters on eccentric orbits. Monthly Notices of the Royal Astronomical Society, 2016, 455, 596-602.	4.4	24
20	An approximate analytic model of a star cluster with potential escapers. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1453-1473.	4.4	23
21	Spherical models of star clusters with potential escapers. Monthly Notices of the Royal Astronomical Society, 2019, 487, 147-160.	4.4	23
22	The kinematic richness of star clusters – I. Isolated spherical models with primordial anisotropy. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2778-2789.	4.4	19
23	The Gravitational Million-Body Problem. Symposium - International Astronomical Union, 2003, 208, 81-92.	0.1	18
24	Pre-collapse evolution of galactic globular clusters. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	16
25	A new outcome of binary–binary scattering. Monthly Notices of the Royal Astronomical Society, 2000, 318, L61-L63.	4.4	15
26	Gravothermal oscillations in multicomponent models of star clusters. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2493-2500.	4.4	13
27	Ecology of globular clusters. Nature, 1992, 359, 772-773.	27.8	10
28	$l = 1$ : Weinberg’s weakly damped mode in an N-body model of a spherical stellar system. Monthly Notices of the Royal Astronomical Society, 2020, , .	4.4	10
29	Dark Matter in Globular Clusters. Symposium - International Astronomical Union, 1996, 174, 303-312.	0.1	9
30	From urban to national heat island: The effect of anthropogenic heat output on climate change in high population industrial countries. Earth’s Future, 2016, 4, 298-304.	6.3	9
31	Gravothermal oscillations in two-component models of star clusters. Monthly Notices of the Royal Astronomical Society, 2012, 420, 309-319.	4.4	8
32	The kinematic richness of star clusters – II. Stability of spherical anisotropic models with rotation. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4762-4778.	4.4	6
33	A Multiphysics and Multiscale Software Environment for Modeling Astrophysical Systems. Lecture Notes in Computer Science, 2008, , 207-216.	1.3	6
34	Dynamical Evolution of Globular Clusters After Core Collapse. Symposium - International Astronomical Union, 1985, 113, 139-160.	0.1	5
35	Few-body modes of binary formation in core collapse. Astronomy and Computing, 2013, 3-4, 35-49.	1.7	4
36	Two collaborative experiments in star cluster evolution. Symposium - International Astronomical Union, 2003, 208, 103-112.	0.1	2

#	ARTICLE	IF	CITATIONS
37	Statistics of Small-N Simulations. Symposium - International Astronomical Union, 1996, 174, 131-140.	0.1	1
38	Dynamics and Evolution of Globular Clusters. Symposium - International Astronomical Union, 1980, 85, 401-416.	0.1	0
39	A Numerical Approximation for Hierarchical Triples. Symposium - International Astronomical Union, 1996, 174, 369-370.	0.1	0
40	The Orbital Eccentricities of Binary Millisecond Pulsars in Globular Clusters. Symposium - International Astronomical Union, 1996, 174, 383-383.	0.1	0
41	A summary of Joint Discussion 14. Proceedings of the International Astronomical Union, 2006, 2, 448-449.	0.0	0
42	Modelling Individual Globular Clusters. Proceedings of the International Astronomical Union, 2007, 3, 121-130.	0.0	0
43	Monte Carlo Simulations of Star Clusters with Primordial Binaries. Comparison with N-body Simulations and Observations. Proceedings of the International Astronomical Union, 2007, 3, 99-103.	0.0	0
44	A linear stability study of stellar rotating spheres. Proceedings of the International Astronomical Union, 2019, 14, 494-497.	0.0	0
45	Linear stability of stellar rotating spheres. Proceedings of the International Astronomical Union, 2019, 14, 246-247.	0.0	0
46	Phase space complexity of star clusters: Fresh observables for old and new questions. Proceedings of the International Astronomical Union, 2019, 14, 389-394.	0.0	0