

Jarrold R Hurley

List of Publications by Year in descending order

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96
papers

7,366
citations

94433

37
h-index

53230

85
g-index

97
all docs

97
docs citations

97
times ranked

3699
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining the differences in massive star models from various simulations. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5717-5725.	4.4	15
2	Preparing the next gravitational million-body simulations: evolution of single and binary stars in <code>nbody6++gpu</code> , <code>moCCA</code> , and <code>mcluster</code> . Monthly Notices of the Royal Astronomical Society, 2022, 511, 4060-4089.	4.4	24
3	Dynamical double black holes and their host cluster properties. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4527-4555.	4.4	13
4	Modelling neutron star–black hole binaries: future pulsar surveys and gravitational wave detectors. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3682-3710.	4.4	43
5	Modelling double neutron stars: radio and gravitational waves. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1587-1610.	4.4	36
6	The fates of massive stars: exploring uncertainties in stellar evolution with <code>metisse</code> . Monthly Notices of the Royal Astronomical Society, 2020, 497, 4549-4564.	4.4	26
7	No cataclysmic variables missing: higher merger rate brings into agreement observed and predicted space densities. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5626-5637.	4.4	31
8	The impact of an evolving bar on the kinematics of a primordial hot population of star clusters in the bulge. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1912-1924.	4.4	3
9	Mass evaporation rate of globular clusters in a strong tidal field. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1729-1737.	4.4	27
10	DYNAMICAL INTERACTIONS MAKE HOT JUPITERS IN OPEN STAR CLUSTERS. Astrophysical Journal, 2016, 816, 59.	4.5	64
11	A Dynamical Gravitational Wave Source in a Dense Cluster. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	27
12	Evolution of star cluster systems in isolated galaxies: first results from direct N -body simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2861-2877.	4.4	24
13	Slicing and dicing globular clusters: dynamically evolved single stellar populations. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3510-3521.	4.4	1
14	The globular cluster system of NGC 6822. Monthly Notices of the Royal Astronomical Society, 2015, 452, 320-332.	4.4	18
15	DIFFERENT DYNAMICAL AGES FOR THE TWO YOUNG AND COEVAL LMC STAR CLUSTERS, NGC 1805 AND NGC 1818, IMPRINTED ON THEIR BINARY POPULATIONS. Astrophysical Journal, 2015, 805, 11.	4.5	19
16	Tracking Cluster Debris (TraCD) – I. Dissolution of clusters and searching for the solar cradle. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4443-4457.	4.4	3
17	Merging binary stars and the magnetic white dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1713-1723.	4.4	49
18	Estimating the impact of the Galactic bar on the evolution of Galactic star clusters from N -body simulations. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1453-1467.	4.4	7

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19	Reconstructing the initial mass function of disc+bulge Galactic globular clusters from N-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3389-3403.	4.4	12
20	The effects of orbital inclination on the scale size and evolution of tidally filling star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1048-1055.	4.4	32
21	THE IMPACT OF GALAXY GEOMETRY AND MASS EVOLUTION ON THE SURVIVAL OF STAR CLUSTERS. <i>Astrophysical Journal</i> , 2014, 784, 95.	4.5	19
22	The effect of orbital eccentricity on the dynamical evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1569-1577.	4.4	43
23	An age difference of two billion years between a metal-rich and a metal-poor globular cluster. <i>Nature</i> , 2013, 500, 51-53.	27.8	101
24	Multiple stellar-mass black holes in globular clusters: theoretical confirmation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 430, L30-L34.	3.3	81
25	Stars on the run: escaping from stellar clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2509-2528.	4.4	23
26	MOCCA code for star cluster simulations II. Comparison with N-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2184-2199.	4.4	113
27	CONSEQUENCES OF DYNAMICAL DISRUPTION AND MASS SEGREGATION FOR THE BINARY FREQUENCIES OF STAR CLUSTERS. <i>Astrophysical Journal</i> , 2013, 779, 30.	4.5	30
28	DIRECT N-BODY MODELING OF THE OLD OPEN CLUSTER NGC 188: A DETAILED COMPARISON OF THEORETICAL AND OBSERVED BINARY STAR AND BLUE STRAGGLER POPULATIONS. <i>Astronomical Journal</i> , 2013, 145, 8.	4.7	77
29	COMPARING THE WHITE DWARF COOLING SEQUENCES IN 47 Tuc AND NGC 6397. <i>Astrophysical Journal</i> , 2013, 778, 104.	4.5	21
30	ULTRA-DEEP HUBBLE SPACE TELESCOPE IMAGING OF THE SMALL MAGELLANIC CLOUD: THE INITIAL MASS FUNCTION OF STARS WITH $M < 1 M_{\odot}$. <i>Astrophysical Journal</i> , 2013, 763, 110.	4.5	46
31	THE INFLUENCE OF ORBITAL ECCENTRICITY ON TIDAL RADII OF STAR CLUSTERS. <i>Astrophysical Journal</i> , 2013, 764, 124.	4.5	48
32	A direct N-body model of core-collapse and core oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2872-2879.	4.4	38
33	A DEEP, WIDE-FIELD, AND PANCHROMATIC VIEW OF 47 Tuc AND THE SMC WITH HST: OBSERVATIONS AND DATA ANALYSIS METHODS. <i>Astronomical Journal</i> , 2012, 143, 11.	4.7	40
34	THE SPECTRAL ENERGY DISTRIBUTIONS OF WHITE DWARFS IN 47 Tucanae: THE DISTANCE TO THE CLUSTER. <i>Astronomical Journal</i> , 2012, 143, 50.	4.7	47
35	DEEP HUBBLE SPACE TELESCOPE IMAGING IN NGC 6397: STELLAR DYNAMICS. <i>Astrophysical Journal</i> , 2012, 761, 51.	4.5	29
36	N-body models of globular clusters: metallicities, half-light radii and mass-to-light ratios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 167-179.	4.4	35

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37	THE SIZE SCALE OF STAR CLUSTERS. <i>Astrophysical Journal</i> , 2012, 756, 167.	4.5	42
38	ON THE MAXIMUM MASS OF STELLAR BLACK HOLES. <i>Astrophysical Journal</i> , 2010, 714, 1217-1226.	4.5	485
39	Star cluster evolution in dark matter dominated galaxies. <i>New Astronomy</i> , 2010, 15, 46-51.	1.8	13
40	N-body models of extended star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 2353-2363.	4.4	25
41	Formation of binary millisecond pulsars by accretion-induced collapse of white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1437-1448.	4.4	52
42	The long and the short of it: modelling double neutron star and collapsar Galactic dynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 656-672.	4.4	12
43	THE DYNAMICAL EFFECTS OF WHITE DWARF BIRTH KICKS IN GLOBULAR STAR CLUSTERS. <i>Astrophysical Journal</i> , 2009, 695, L20-L24.	4.5	26
44	Populating the Galaxy with pulsars - II. Galactic dynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 2326-2346.	4.4	32
45	Accretion induced collapse of white dwarfs in binary systems and their observational properties. <i>Journal of Physics: Conference Series</i> , 2009, 172, 012037.	0.4	5
46	N -body Simulations with Live Stellar Evolution. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, 92-102.	3.4	5
47	The progeny of stellar dynamics and stellar evolution within an N -body model of NGC 188. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 258-263.	0.0	1
48	Self-consistent simulations of star cluster formation from gas clouds under the influence of galaxy-scale tidal fields. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 389, L61-L65.	3.3	18
49	Populating the Galaxy with pulsars I. Stellar and binary evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 393-415.	4.4	58
50	Monte Carlo simulations of star clusters IV. Calibration of the Monte Carlo code and comparison with observations for the open cluster M67. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 429-443.	4.4	53
51	Furnishing the Galaxy with Pulsars. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
52	DEEP ADVANCED CAMERA FOR SURVEYS IMAGING IN THE GLOBULAR CLUSTER NGC 6397: THE CLUSTER COLOR-MAGNITUDE DIAGRAM AND LUMINOSITY FUNCTION. <i>Astronomical Journal</i> , 2008, 135, 2141-2154.	4.7	75
53	DEEP ADVANCED CAMERA FOR SURVEYS IMAGING IN THE GLOBULAR CLUSTER NGC 6397: DYNAMICAL MODELS. <i>Astronomical Journal</i> , 2008, 135, 2129-2140.	4.7	22
54	DEEP ADVANCED CAMERA FOR SURVEYS IMAGING IN THE GLOBULAR CLUSTER NGC 6397: REDUCTION METHODS. <i>Astronomical Journal</i> , 2008, 135, 2114-2128.	4.7	57

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55	DEEP ADVANCED CAMERA FOR SURVEYS IMAGING IN THE GLOBULAR CLUSTER NGC 6397: THE BINARY FRACTION. <i>Astronomical Journal</i> , 2008, 135, 2155-2162.	4.7	58
56	N-Body Stellar Evolution. <i>Lecture Notes in Physics</i> , 2008, , 283-296.	0.7	8
57	N - Body Binary Evolution. <i>Lecture Notes in Physics</i> , 2008, , 321-332.	0.7	5
58	The White Dwarf Cooling Sequence of NGC 6397. <i>Astrophysical Journal</i> , 2007, 671, 380-401.	4.5	143
59	The Space Motion of the Globular Cluster NGC 6397. <i>Astrophysical Journal</i> , 2007, 657, L93-L96.	4.5	28
60	The Core Binary Fractions of Star Clusters from Realistic Simulations. <i>Astrophysical Journal</i> , 2007, 665, 707-718.	4.5	89
61	<i>N</i> -body Models of Open Clusters. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 89-98.	0.0	0
62	Ratios of star cluster core and half-mass radii: a cautionary note on intermediate-mass black holes in star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 379, 93-99.	4.4	90
63	Dynamical Effects Dominate the Evolution of Cataclysmic Variables in Dense Star Clusters. <i>Astrophysical Journal</i> , 2006, 646, 464-473.	4.5	38
64	Models of M 67. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 442-443.	0.0	0
65	Populating the Galaxy with low-mass X-ray binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1152-1166.	4.4	89
66	McScatter: A simple three-body scattering package with stellar evolution. <i>New Astronomy</i> , 2006, 12, 20-28.	1.8	8
67	Probing the Faintest Stars in a Globular Star Cluster. <i>Science</i> , 2006, 313, 936-940.	12.6	60
68	Inclusion of binaries in evolutionary population synthesis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 357, 1088-1103.	4.4	57
69	A complete N-body model of the old open cluster M67. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 293-314.	4.4	202
70	Integrated spectral energy distributions and absorption-feature indices of single stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 350, 710-724.	4.4	13
71	Metallicity effects on open cluster dynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 1207-1216.	4.4	23
72	Could edge-lit type Ia supernovae be standard candles?. <i>New Astronomy</i> , 2003, 8, 283-294.	1.8	9

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73	MODEST-2: a summary. <i>New Astronomy</i> , 2003, 8, 605-628.	1.8	31
74	Core radius evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 1025-1037.	4.4	42
75	Impersonal parameters from Hertzsprung-Russell diagrams. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 1175-1186.	4.4	7
76	White Dwarf Sequences in Dense Star Clusters. <i>Astrophysical Journal</i> , 2003, 589, 179-198.	4.5	42
77	Cluster CMDs from N-body Simulations: Stellar and Binary Evolution on GRAPE. <i>Symposium - International Astronomical Union</i> , 2003, 208, 113-122.	0.1	0
78	Type Ia Supernovae and Planets in Star Clusters. <i>Symposium - International Astronomical Union</i> , 2003, 208, 53-60.	0.1	0
79	Evolutionary Population Synthesis for Single Stellar Populations. <i>Chinese Physics Letters</i> , 2002, 19, 1734-1737.	3.3	2
80	Free-Floating Planets in Stellar Clusters: Not So Surprising. <i>Astrophysical Journal</i> , 2002, 565, 1251-1256.	4.5	58
81	Star Clusters as Type Ia Supernova Factories. <i>Astrophysical Journal</i> , 2002, 571, 830-842.	4.5	64
82	Dynamical Evolution of Rich Star Clusters in the LMC. <i>Symposium - International Astronomical Union</i> , 2002, 207, 577-583.	0.1	0
83	Star Clusters as Exotic Star Factories. <i>International Astronomical Union Colloquium</i> , 2002, 187, 115-120.	0.1	0
84	Evolution of binary stars and the effect of tides on binary populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 329, 897-928.	4.4	1,445
85	Colour indices of single stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 334, 883-904.	4.4	14
86	The Promiscuous Nature of Stars in Clusters. <i>Astrophysical Journal</i> , 2002, 570, 184-189.	4.5	19
87	Free-Floating Planets and Stellar Clusters. <i>American Scientist</i> , 2002, 90, 140.	0.1	0
88	The formation of a bound star cluster: from the Orion nebula cluster to the Pleiades. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 321, 699-712.	4.4	375
89	Direct N-body modelling of stellar populations: blue stragglers in M67. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 323, 630-650.	4.4	134
90	Young star clusters in the Large Magellanic Cloud: NGC 1805 and 1818. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 324, 367-380.	4.4	32

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91	Comprehensive analytic formulae for stellar evolution as a function of mass and metallicity. Monthly Notices of the Royal Astronomical Society, 2000, 315, 543-569.	4.4	1,380
92	Stellar evolution models for $Z = 0.0001$ to 0.03 . Monthly Notices of the Royal Astronomical Society, 1998, 298, 525-536.	4.4	456
93	The binary star population of the young cluster NGC 1818 in the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 1998, 300, 857-862.	4.4	18
94	The binary second sequence in cluster colour-magnitude diagrams. Monthly Notices of the Royal Astronomical Society, 1998, 300, 977-980.	4.4	66
95	The binary second sequence in cluster colour-magnitude diagrams. Monthly Notices of the Royal Astronomical Society, 1998, 300, 977-980.	4.4	6
96	Discovery of a Luminous White Dwarf in a Young Star Cluster in the Large Magellanic Cloud. Astrophysical Journal, 1998, 499, L53-L56.	4.5	9