

Mark Gieles

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

7,809
citations

48
h-index

86
g-index

139
ext. papers

8,700
ext. citations

5.2
avg, IF

6.31
L-index

#	Paper	IF	Citations
134	Binary interaction dominates the evolution of massive stars. <i>Science</i> , 2012 , 337, 444-6	33.3	1058
133	Young Massive Star Clusters. <i>Annual Review of Astronomy and Astrophysics</i> , 2010 , 48, 431-493	31.7	711
132	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2013 , 550, A107	5.1	293
131	An analytical description of the disruption of star clusters in tidal fields with an application to Galactic open clusters. <i>Astronomy and Astrophysics</i> , 2005 , 441, 117-129	5.1	214
130	Early disc accretion as the origin of abundance anomalies in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 436, 2398-2411	4.3	205
129	Star cluster disruption by giant molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 371, 793-804	4.3	190
128	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2011 , 530, A108	5.1	180
127	The star cluster population of M 51. <i>Astronomy and Astrophysics</i> , 2005 , 431, 905-924	5.1	160
126	Precession of the Sagittarius stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 116-121	4.3	140
125	The life cycle of star clusters in a tidal field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 413, 2509-2524	4.3	130
124	An excess of massive stars in the local 30 Doradus starburst. <i>Science</i> , 2018 , 359, 69-71	33.3	122
123	Disruption time scales of star clusters in different galaxies. <i>Astronomy and Astrophysics</i> , 2005 , 429, 173-179	5.1	118
122	THE SAGITTARIUS STREAMS IN THE SOUTHERN GALACTIC HEMISPHERE. <i>Astrophysical Journal</i> , 2012 , 750, 80	4.7	117
121	Stellar clusters in M83: formation, evolution, disruption and the influence of the environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 419, 2606-2622	4.3	114
120	Hierarchical star formation in M 51: star/cluster complexes. <i>Astronomy and Astrophysics</i> , 2005 , 443, 79-90	5.1	109
119	The luminosity function of young star clusters: implications for the maximum mass and luminosity of clusters. <i>Astronomy and Astrophysics</i> , 2006 , 450, 129-145	5.1	106
118	Lifetimes of tidally limited star clusters with different radii. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 , 389, L28-L32	4.3	105

117	The distinction between star clusters and associations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 410, L6-L7	4.3	99
116	Concurrent formation of supermassive stars and globular clusters: implications for early self-enrichment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 2461-2479	4.3	94
115	Clusters in the solar neighbourhood: how are they destroyed?. <i>Astronomy and Astrophysics</i> , 2006 , 455, L17-L20	5.1	93
114	The spatial evolution of stellar structures in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 392, 868-878	4.3	90
113	Black hole growth through hierarchical black hole mergers in dense star clusters: implications for gravitational wave detections. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 5008-5021	4.3	88
112	ACS imaging of star clusters in M 51. <i>Astronomy and Astrophysics</i> , 2007 , 469, 925-940	5.1	84
111	Mass-loss rates and the mass evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 409, 305-328	4.3	82
110	Hierarchical star formation in M33: fundamental properties of the star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 379, 1302-1312	4.3	81
109	The early evolution of the star cluster mass function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 394, 2113-2126	4.3	80
108	Evolution of star clusters in arbitrary tidal fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 418, 759-769	4.3	78
107	Globular cluster formation and evolution in the context of cosmological galaxy assembly: open questions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170616	2.4	78
106	On the mass-radius relation of hot stellar systems. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010 , 408, L16-L20	4.3	75
105	The star cluster population of M 51. <i>Astronomy and Astrophysics</i> , 2005 , 441, 949-960	5.1	73
104	Observational evidence for a truncation of the star cluster initial mass function at the high mass end. <i>Astronomy and Astrophysics</i> , 2006 , 446, L9-L12	5.1	72
103	The origin of the Milky Way globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 3622-3636	4.3	71
102	Evidence for two populations of Galactic globular clusters from the ratio of their half-mass to Jacobi radii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 401, 1832-1838	4.3	70
101	The effect of spiral arm passages on the evolution of stellar clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 376, 809-819	4.3	69
100	The Tarantula Massive Binary Monitoring. <i>Astronomy and Astrophysics</i> , 2017 , 598, A84	5.1	68

99	A family of lowered isothermal models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 454, 576-592	4.3	68
98	The early expansion of cluster cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 389, 223-230	4.3	68
97	On the Interpretation of the Age Distribution of Star Clusters in the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2007 , 668, 268-274	4.7	65
96	A DOUBLE CLUSTER AT THE CORE OF 30 DORADUS. <i>Astrophysical Journal Letters</i> , 2012 , 754, L37	7.9	62
95	An alternative method to study star cluster disruption. <i>Astronomy and Astrophysics</i> , 2008 , 482, 165-171	5.1	61
94	Outer density profiles of 19 Galactic globular clusters from deep and wide-field imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 419, 14-28	4.3	59
93	Extending the globular cluster system halo mass relation to the lowest galaxy masses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 5592-5605	4.3	59
92	Search for associations containing young stars: chemical tagging IC 2391 and the Argus association. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 431, 1005-1018	4.3	57
91	A stellar-mass black hole population in the globular cluster NGC 6101?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, 2333-2342	4.3	53
90	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2012 , 542, A49	5.1	52
89	On the velocity dispersion of young star clusters: super-virial or binaries?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 402, 1750-1757	4.3	51
88	Multiple populations in globular clusters: the distinct kinematic imprints of different formation scenarios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 1164-1198	4.3	50
87	The devil is in the tails: the role of globular cluster mass evolution on stream properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 2479-2492	4.3	49
86	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2012 , 546, A73	5.1	48
85	A MAD view of Trumpler 14. <i>Astronomy and Astrophysics</i> , 2010 , 515, A26	5.1	47
84	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2012 , 545, L1	5.1	44
83	A prescription and fast code for the long-term evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 422, 3415-3432	4.3	43
82	GLIMPSE-CO1: the most massive intermediate-age stellar cluster in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 411, 1386-1394	4.3	43

81	Evidence for environmentally dependent cluster disruption in M83. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 417, L6-L10	4.3	42
80	Evolution of stellar structure in the Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 , 391, L93-L97	4.3	42
79	The effect of stellar-mass black holes on the central kinematics of Ω Cen: a cautionary tale for IMBH interpretations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 4713-4725	4.3	41
78	Do all stars in the solar neighbourhood form in clusters? A cautionary note on the use of the distribution of surface densities. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012 , 426, L11-L15	4.3	40
77	If it does not kill them, it makes them stronger: collisional evolution of star clusters with tidal shocks. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 463, L103-L107	4.3	40
76	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2018 , 618, A73	5.1	39
75	Globular cluster number density profiles using Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 4906-4935	4.3	38
74	Radial anisotropy in Ω Cen limiting the room for an intermediate-mass black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 4429-4440	4.3	38
73	Monte Carlo simulations of pinhole imaging accelerated by kernel-based forced detection. <i>Physics in Medicine and Biology</i> , 2002 , 47, 1853-67	3.8	38
72	Biases in the inferred mass-to-light ratio of globular clusters: no need for variations in the stellar mass function. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015 , 448, L94-L98	4.3	36
71	Population synthesis of black hole binary mergers from star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 2936-2954	4.3	34
70	The role of galaxy mergers on the evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013 , 431, L83-L87	4.3	34
69	Star Clusters Near and Far. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	33
68	The tidal tails of the ultrafaint globular cluster Palomar 1. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010 , 408, L66-L70	4.3	33
67	The properties of energetically unbound stars in stellar clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 3937-3950	4.3	32
66	Probing dark matter with star clusters: a dark matter core in the ultra-faint dwarf Eridanus II. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 3124-3136	4.3	31
65	Biases in the determination of dynamical parameters of star clusters: today and in the Gaia era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 451, 2185-2197	4.3	31
64	The evolution of stellar structures in dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 412, 1539-1551	4.3	31

63	The Young Cluster Population of M82 Region B. <i>Astrophysical Journal</i> , 2007 , 667, L145-L149	4.7	31
62	A prescription and fast code for the long-term evolution of star clusters III. Unequal masses and stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 442, 1265-1285	4.3	29
61	Mass models of NGC 6624 without an intermediate-mass black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 4832-4839	4.3	28
60	AHUBBLE SPACE TELESCOPESTUDY OF THE ENIGMATIC MILKY WAY HALO GLOBULAR CLUSTER CRATER. <i>Astrophysical Journal</i> , 2016 , 822, 32	4.7	27
59	Testing lowered isothermal models with direct N-body simulations of globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, 696-714	4.3	26
58	Merger rate of black hole binaries from globular clusters: Theoretical error bars and comparison to gravitational wave data from GWTC-2. <i>Physical Review D</i> , 2020 , 102,	4.9	24
57	The Physics of Star Cluster Formation and Evolution. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	24
56	The inefficiency of satellite accretion in forming extended star clusters. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015 , 447, L40-L44	4.3	22
55	The evolution of the global stellar mass function of star clusters: an analytic description. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 433, 1378-1388	4.3	22
54	ACS imaging of star clusters in M 51. <i>Astronomy and Astrophysics</i> , 2008 , 487, 937-949	5.1	22
53	A flexible method to evolve collisional systems and their tidal debris in external potentials. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 448, 3416-3422	4.3	20
52	Evolution of star clusters on eccentric orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 455, 596-602	4.3	19
51	A closer look at the spur, blob, wiggle, and gaps in GD-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 5315-5332	4.3	19
50	Mass modelling globular clusters in theGaiaera: a method comparison using mock data from anN-body simulation of M 4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 483, 1400-1425	4.3	18
49	On the black hole content and initial mass function of 47 Tuc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 113-128	4.3	17
48	Constraining the initial conditions of globular clusters using their radius distribution. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013 , 432, L1-L5	4.3	17
47	A prescription and fast code for the long-term evolution of star clusters II. Unbalanced and core evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 916-929	4.3	16
46	New insights into the origin and evolution of the old, metal-rich open cluster NGC 6791. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 32-44	4.3	15

45	No evidence for younger stellar generations within the intermediate-age massive clusters NGC 1783, NGC 1806 and NGC 411. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 4218-4223	4.3	15
44	Spherical models of star clusters with potential escapers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 487, 147-160	4.3	13
43	Properties of the cluster population of NGC 1566 and their implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 460, 2087-2102	4.3	13
42	The effect of secular galactic growth on the evolution of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 2734-2740	4.3	13
41	Spectroscopic constraints on the form of the stellar cluster mass function. <i>Astronomy and Astrophysics</i> , 2012 , 541, A25	5.1	13
40	Mass segregation in young star clusters - can it be detected from the integrated photometric properties?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 391, 190-196	4.3	13
39	Accurate photometry of extended spherically symmetric sources. <i>Astronomy and Astrophysics</i> , 2006 , 451, 375-375	5.1	13
38	The contribution of dissolving star clusters to the population of ultra faint objects in the outer halo of the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 1741-1756	4.3	12
37	Weighing stars from birth to death: mass determination methods across the HRD. <i>Astronomy and Astrophysics Review</i> , 2021 , 29, 1	28.8	12
36	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , 2019 , 624, A129	5.1	12
35	Testing lowered isothermal models with direct N-body simulations of globular clusters III. Multimass models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 2736-2761	4.3	11
34	Linking the rotation of a cluster to the spins of its stars: the kinematics of NGC 6791 and NGC 6819 in 3D. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 483, 2197-2206	4.3	11
33	The effect of spatial resolution on optical and near-IR studies of stellar clusters: implications for the origin of the red excess. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 3829-3836	4.3	10
32	The star cluster age function in the Galactic disc with Gaia DR2. <i>Astronomy and Astrophysics</i> , 2021 , 645, L2	5.1	10
31	The dynamics of the globular cluster NGC 3201 out to the Jacobi radius. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 4513-4525	4.3	10
30	VLT-MAD observations of the core of 30 Doradus. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 ,	4.3	9
29	The initial conditions of observed star clusters II. Method description and validation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 453, 605-637	4.3	8
28	A supra-massive population of stellar-mass black holes in the globular cluster Palomar 5. <i>Nature Astronomy</i> , 2021 , 5, 957-966	12.1	8

27	Globular clusters as probes of dark matter cusp-core transformations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 2977-2988	4.3	6
26	A black hole detected in the young massive LMC cluster NGC 1850. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	6
25	What determines the mass of the most massive star cluster in a galaxy: statistics, physics or disruption?. <i>Astrophysics and Space Science</i> , 2009 , 324, 299-304	1.6	5
24	A clustered origin for isolated massive stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 3582-3592	4.3	5
23	Time-domain Study of the Young Massive Cluster Westerlund 2 with the Hubble Space Telescope. I. <i>Astrophysical Journal</i> , 2020 , 891, 182	4.7	4
22	Response to Comment on "An excess of massive stars in the local 30 Doradus starburst". <i>Science</i> , 2018 , 361,	33.3	4
21	MUSE narrow field mode observations of the central kinematics of M15. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 1680-1687	4.3	4
20	Modelling the Effects of Dark Matter Substructure on Globular Cluster Evolution with the Tidal Approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 ,	4.3	3
19	Hierarchical star formation in M33: properties of the star-forming regions. <i>Astrophysics and Space Science</i> , 2009 , 324, 293-297	1.6	3
18	HAYDN. <i>Experimental Astronomy</i> ,1	1.3	3
17	From Giant H ii regions and H ii galaxies to globular clusters and compact dwarf ellipticals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 268-276	4.3	3
16	Star Cluster Life-times: Dependence on Mass, Radius and Environment. <i>Proceedings of the International Astronomical Union</i> , 2007 , 3, 171-175	0.1	2
15	Supermassive stars as the origin of the multiple populations in globular clusters. <i>Proceedings of the International Astronomical Union</i> , 2019 , 14, 297-301	0.1	2
14	The VLT/FLAMES Tarantula Survey. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 35-40	0.1	1
13	The Radii of Thousands of Star Clusters in M51 with HST/ACS. <i>Globular Clusters - Guides To Galaxies</i> , 2009 , 103-106		1
12	The Effect of Giant Molecular Clouds on Star Clusters. <i>Globular Clusters - Guides To Galaxies</i> , 2009 , 375-376		1
11	New type of brightness variations of the colliding wind WO4 + O5((f)) binary WR 30a. <i>Astronomy and Astrophysics</i> , 2003 , 404, L29-L32	5.1	1
10	Massive stars in extremely metal-poor galaxies: a window into the past. <i>Experimental Astronomy</i> , 2021 , 51, 887	1.3	0

- 9 On the uniqueness of kinematical signatures of intermediate-mass black holes in globular clusters. *Proceedings of the International Astronomical Union*, **2014**, 10, 197-200 0.1
- 8 Inverting the dynamical evolution of globular clusters: clues to their origin. *Proceedings of the International Astronomical Union*, **2015**, 12, 214-221 0.1
- 7 Star cluster disruption. *Proceedings of the International Astronomical Union*, **2009**, 5, 69-80 0.1
- 6 Constraining star cluster disruption mechanisms. *Proceedings of the International Astronomical Union*, **2009**, 5, 433-437 0.1
- 5 The VLT-FLAMES Tarantula survey. *Proceedings of the International Astronomical Union*, **2010**, 6, 296-297 0.1
- 4 The spatial evolution of stellar structures in the LMC/SMC. *Proceedings of the International Astronomical Union*, **2008**, 4, 45-50 0.1
- 3 Integrated Properties of Mass Segregated Star Clusters. *Proceedings of the International Astronomical Union*, **2007**, 3, 193-194 0.1
- 2 The Maximum Mass of Star Clusters. *Globular Clusters - Guides To Galaxies*, **2009**, 63-67
- 1 Dynamical Expansion of Star Clusters. *Thirty Years of Astronomical Discovery With UKIRT*, **2012**, 241-243 0.3