J M Diederik Kruijssen

List of Publications by Year
in descending order

212 papers	11,359 citations	18482 62 h-index	40979 93 g-index
214 all docs	214 docs citations	214 times ranked	4570 citing authors

#	Article	IF	Citations
1	On the fraction of star formation occurring in bound stellar clusters. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3008-3040.	4.4	331
2	Variations in the Galactic star formation rate and density thresholds for star formation. Monthly Notices of the Royal Astronomical Society, 2013, 429, 987-1000.	4.4	254
3	Globular clusters as the relics of regular star formation in â€˜normalâ€™ high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1658-1686.	4.4	248
4	The formation and assembly history of the Milky Way revealed by its globular cluster population. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3180-3202.	4.4	232
5	What controls star formation in the central 500Âpc of the Galaxy?. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3370-3391.	4.4	201
6	Cloud-scale Molecular Gas Properties in 15 Nearby Galaxies. Astrophysical Journal, 2018, 860, 172.	4.5	182
7	Fast and inefficient star formation due to short-lived molecular clouds and rapid feedback. Nature, 2019, 569, 519-522.	27.8	178
8	The lifecycle of molecular clouds in nearby star-forming disc galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2872-2909.	4.4	178
9	The dynamical evolution of molecular clouds near the Galactic Centre â€“ I. Orbital structure and evolutionary timeline. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1059-1079.	4.4	174
10	The E-MOSAICS project: simulating the formation and co-evolution of galaxies and their star cluster populations. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4309-4346.	4.4	173
11	An uncertainty principle for star formation â€“ I. Why galactic star formation relations break down below a certain spatial scale. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3239-3252.	4.4	161
12	PHANGSâ€“ALMA: Arcsecond CO(2â€“1) Imaging of Nearby Star-forming Galaxies. Astrophysical Journal, Supplement Series, 2021, 257, 43.	7.7	161
13	Molecular gas kinematics within the central 250Âpc of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2675-2702.	4.4	154
14	Dense gas in the Galactic central molecular zone is warm and heated by turbulence. Astronomy and Astrophysics, 2016, 586, A50.	5.1	152
15	Modelling the formation and evolution of star cluster populations in galaxy simulations. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1339-1364.	4.4	148
16	Kraken reveals itself â€“ the merger history of the Milky Way reconstructed with the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2472-2491.	4.4	147
17	The dynamical state of stellar structure in star-forming regions. Monthly Notices of the Royal Astronomical Society, 2012, 419, 841-853.	4.4	144
18	Probing the role of the galactic environment in the formation of stellar clusters, using M83 as a test bench. Monthly Notices of the Royal Astronomical Society, 2015, 452, 246-260.	4.4	144

#	Article	IF	Citations
19	THE LINK BETWEEN TURBULENCE, MAGNETIC FIELDS, FILAMENTS, AND STAR FORMATION IN THE CENTRAL MOLECULAR ZONE CLOUD G0.253+0.016. Astrophysical Journal, 2016, 832, 143.	4.5	134
20	Globular cluster formation in the context of galaxy formation and evolution. Classical and Quantum Gravity, 2014, 31, 244006.	4.0	132
21	Star formation rates and efficiencies in the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2263-2285.	4.4	129
22	Cloud-scale ISM Structure and Star Formation in M51. Astrophysical Journal, 2017, 846, 71.	4.5	119
23	Distances to PHANGS galaxies: New tip of the red giant branch measurements and adopted distances. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3621-3639.	4.4	106
24	A dynamical model for the formation of gas rings and episodic starbursts near galactic centres. Monthly Notices of the Royal Astronomical Society, 2015, 453, 739-757.	4.4	105
25	Candidate super star cluster progenitor gas clouds possibly triggered by close passage to Sgr A*. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 433, L15-L19.	3.3	104
26	Comparing molecular gas across cosmic time-scales: the Milky Way as both a typical spiral galaxy and a high-redshift galaxy analogue. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2598-2603.	4.4	103
27	Mapping Metallicity Variations across Nearby Galaxy Disks. Astrophysical Journal, 2019, 887, 80.	4.5	103
28	Globular cluster formation and evolution in the context of cosmological galaxy assembly: open questions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170616.	2.1	102
29	Star Formation Efficiency per Free-fall Time in nearby Galaxies. Astrophysical Journal Letters, 2018, 861, L18.	8.3	97
30	The PHANGS-MUSE survey. Astronomy and Astrophysics, 2022, 659, A191.	5.1	96
31	The E-MOSAICS project: tracing galaxy formation and assembly with the ageâ€“metallicity distribution of globular clusters. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3134-3179.	4.4	95
32	A PORTRAIT OF COLD GAS IN GALAXIES AT 60 pc RESOLUTION AND A SIMPLE METHOD TO TEST HYPOTHESES THAT LINK SMALL-SCALE ISM STRUCTURE TO GALAXY-SCALE PROCESSES. Astrophysical Journal, 2016, 831, 16.	4.5	92
33	Formation versus destruction: the evolution of the star cluster population in galaxy mergers. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1927-1941.	4.4	89
34	A CLUSTER IN THE MAKING: ALMA REVEALS THE INITIAL CONDITIONS FOR HIGH-MASS CLUSTER FORMATION. Astrophysical Journal, 2015, 802, 125.	4.5	89
35	Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies. Astrophysical Journal, 2020, 892, 148.	4.5	88
36	TURBULENCE SETS THE INITIAL CONDITIONS FOR STAR FORMATION IN HIGH-PRESSURE ENVIRONMENTS. Astrophysical Journal Letters, 2014, 795, L25.	8.3	87

#	Article	IF	Citations
37	Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. Astrophysical Journal Letters, 2020, 901, L8.	8.3	85
38	Star Clusters Near and Far. Space Science Reviews, 2020, 216, 1.	8.1	82
39	A dynamical model for gas flows, star formation and nuclear winds in galactic centres. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1213-1233.	4.4	79
40	PHANGSâ€“ALMA Data Processing and Pipeline. Astrophysical Journal, Supplement Series, 2021, 255, 19.	7.7	79
41	A unified model for the maximum mass scales of molecular clouds, stellar clusters and high-redshift clumps. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1282-1298.	4.4	78
42	A 50 pc Scale View of Star Formation Efficiency across NGC 628. Astrophysical Journal Letters, 2018, 863, L21.	8.3	78
43	The Molecular Cloud Lifecycle. Space Science Reviews, 2020, 216, 50.	8.1	77
44	PHANGS CO Kinematics: Disk Orientations and Rotation Curves at 150 pc Resolution. Astrophysical Journal, 2020, 897, 122.	4.5	77
45	Giant molecular cloud catalogues for PHANGS-ALMA: methods and initial results. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1218-1245.	4.4	75
46	An Enigmatic Population of Luminous Globular Clusters in a Galaxy Lacking Dark Matter. Astrophysical Journal Letters, 2018, 856, L30.	8.3	74
47	Distributed Star Formation throughout the Galactic Center Cloud Sgr B2. Astrophysical Journal, 2018, 853, 171.	4.5	74
48	Dissolution is the solution: on the reduced mass-to-light ratios of Galactic globular clusters. Astronomy and Astrophysics, 2009, 500, 785-799.	5.1	74
49	The Survey of Water and Ammonia in the Galactic Center (SWAG): Molecular Cloud Evolution in the Central Molecular Zone. Astrophysical Journal, 2017, 850, 77.	4.5	71
50	An uncertainty principle for star formation â€“ II. A new method for characterizing the cloud-scale physics of star formation and feedback across cosmic history. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1866-1952.	4.4	71
51	New constraints on the 12CO(2â€“1)/(1â€“0) line ratio across nearby disc galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3221-3245.	4.4	71
52	Physical Properties of Molecular Clouds at 2 pc Resolution in the Low-metallicity Dwarf Galaxy NGC 6822 and the Milky Way. Astrophysical Journal, 2017, 835, 278.	4.5	69
53	The evolution of the stellar mass function in star clusters. Astronomy and Astrophysics, 2009, 507, 1409-1423.	5.1	68
54	The dynamical evolution of molecular clouds near the Galactic Centre â€“ II. Spatial structure and kinematics of simulated clouds. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5734-5754.	4.4	68

#	Article	IF	Citations
55	Protoplanetary disc evolution affected by star-disc interactions in young stellar clusters. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2094-2110.	4.4	67
56	A Model for the Onset of Self-gravitation and Star Formation in Molecular Gas Governed by Galactic Forces. I. Cloud-scale Gas Motions. Astrophysical Journal, 2018, 854, 100.	4.5	67
57	Impact of Low-Energy Cosmic Rays on Star Formation. Space Science Reviews, 2020, 216, 1.	8.1	67
58	The Dragonfly Nearby Galaxies Survey. V. HST/ACS Observations of 23 Low Surface Brightness Objects in the Fields of NGC 1052, NGC 1084, M96, and NGC 4258. Astrophysical Journal, 2018, 868, 96.	4.5	66
59	The Physics of Star Cluster Formation and Evolution. Space Science Reviews, 2020, 216, 1.	8.1	65
60	Pre-supernova feedback mechanisms drive the destruction of molecular clouds in nearby star-forming disc galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 272-288.	4.4	65
61	G0.253+0.016: A CENTRALLY CONDENSED, HIGH-MASS PROTOCLUSTER. Astrophysical Journal, 2014, 786, 140.	4.5	64
62	How Galactic Environment Affects the Dynamical State of Molecular Clouds and Their Star Formation Efficiency. Astrophysical Journal, 2019, 883, 2.	4.5	63
63	Chaos and variance in galaxy formation. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2244-2261.	4.4	63
64	Millimeter-wave Line Ratios and Sub-beam Volume Density Distributions. Astrophysical Journal, 2017, 835, 217.	4.5	62
65	Heart of darkness: the influence of galactic dynamics on quenching star formation in galaxy spheroids. Monthly Notices of the Royal Astronomical Society, 2020, 495, 199-223.	4.4	62
66	On the duration of the embedded phase of star formation. Monthly Notices of the Royal Astronomical Society, 2021, 504, 487-509.	4.4	61
67	A general theory for the lifetimes of giant molecular clouds under the influence of galactic dynamics. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3688-3715.	4.4	60
68	Not all stars form in clusters â€“ measuring the kinematics of OB associations with Gaia. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5659-5676.	4.4	58
69	The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope. Astrophysical Journal, Supplement Series, 2022, 258, 10.	7.7	58
70	â€˜The Brickâ€™ is not abrick: a comprehensive study of the structure and dynamics of the central molecular zone cloud G0.253+0.016. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2457-2485.	4.4	57
71	The Gasâ€“Star Formation Cycle in Nearby Star-forming Galaxies. I. Assessment of Multi-scale Variations. Astrophysical Journal, 2019, 887, 49.	4.5	57
72	Formation histories of stars, clusters, and globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5838-5852.	4.4	56

#	Article	IF	Citations
73	High-Energy Particles and Radiation in Star-Forming Regions. Space Science Reviews, 2020, 216, 1.	8.1	56
74	The varying mass distribution of molecular clouds across M83. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1769-1781.	4.4	55
75	Can habitable planets form in clustered environments?. Astronomy and Astrophysics, 2012, 546, L1.	5.1	54
76	Feedback from massive stars at low metallicities: MUSE observations of N44 and N180 in the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5263-5288.	4.4	53
77	Stellar structures, molecular gas, and star formation across the PHANGS sample of nearby galaxies. Astronomy and Astrophysics, 2021, 656, A133.	5.1	53
78	Not all stars form in clusters â€“ Gaia-DR2 uncovers the origin of OB associations. Monthly Notices of the Royal Astronomical Society, 2020, 495, 663-685.	4.4	53
79	The young star cluster population of M51 with LEGUS â€“ II. Testing environmental dependences. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1683-1707.	4.4	52
80	Tracing the conversion of gas into stars in Young Massive Cluster Progenitors. Monthly Notices of the Royal Astronomical Society, 2015, 449, 715-725.	4.4	51
81	Stellar clustering shapes the architecture of planetary systems. Nature, 2020, 586, 528-532.	27.8	51
82	Orbital Clustering Identifies the Origins of Galactic Stellar Streams. Astrophysical Journal Letters, 2021, 909, L26.	8.3	51
83	A tale of two DIGs: The relative role of Hâ€II regions and low-mass hot evolved stars in powering the diffuse ionised gas (DIG) in PHANGSâ€“MUSE galaxies. Astronomy and Astrophysics, 2022, 659, A26.	5.1	51
84	Star formation scaling relations at â^¼100 pc from PHANGS: Impact of completeness and spatial scale. Astronomy and Astrophysics, 2021, 650, A134.	5.1	50
85	Seeding the Galactic Centre gas stream: gravitational instabilities set the initial conditions for the formation of protocluster clouds. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 463, L122-L126.	3.3	49
86	Star cluster formation in the most extreme environments: insights from the HiPEEC survey. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3267-3294.	4.4	49
87	Toward gas exhaustion in the W51 high-mass protoclusters. Astronomy and Astrophysics, 2016, 595, A27.	5.1	48
88	A model for the formation of stellar associations and clusters from giant molecular clouds. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3239-3258.	4.4	48
89	Dense gas is not enough: environmental variations in the star formation efficiency of dense molecular gas at 100 pc scales in M 51. Astronomy and Astrophysics, 2019, 625, A19.	5.1	47
90	Which feedback mechanisms dominate in the high-pressure environment of the central molecular zone?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4906-4923.	4.4	47

#	Article	IF	Citations
91	ON THE INTERPRETATION OF THE GLOBULAR CLUSTER LUMINOSITY FUNCTION. Astrophysical Journal, 2009, 698, L158-L162.	4.5	46
92	Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. Astrophysical Journal, 2022, 927, 149.	4.5	46
93	Measuring the mixing scale of the ISM within nearby spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 193-209.	4.4	44
94	Physical Processes in Star Formation. Space Science Reviews, 2020, 216, 1.	8.1	43
95	Comparing young massive clusters and their progenitor clouds in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4536-4545.	4.4	42
96	A REVISED PLANETARY NEBULA LUMINOSITY FUNCTION DISTANCE TO NGC 628 USING MUSE. Astrophysical Journal, 2017, 834, 174.	4.5	42
97	Simultaneous low- and high-mass star formation in a massive protocluster: ALMA observations of G11.92â˜'0.61â˜.... Monthly Notices of the Royal Astronomical Society, 2017, 468, 3694-3708.	4.4	42
98	The Formation and Early Evolution of Young Massive Clusters. , 2014, , .		42
99	A fundamental test for stellar feedback recipes in galaxy simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1717-1728.	4.4	40
100	Prevalent externally driven protoplanetary disc dispersal as a function of the galactic environment. Monthly Notices of the Royal Astronomical Society, 2020, 491, 903-922.	4.4	39
101	Star formation in a high-pressure environment: an SMA view of the Galactic Centre dust ridge. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2373-2388.	4.4	38
102	Deep transfer learning for star cluster classification: I. application to the PHANGSâ€“HST survey. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3178-3193.	4.4	38
103	From Diffuse Gas to Dense Molecular Cloud Cores. Space Science Reviews, 2020, 216, 1.	8.1	38
104	Ubiquitous velocity fluctuations throughout the molecular interstellar medium. Nature Astronomy, 2020, 4, 1064-1071.	10.1	38
105	The minimum metallicity of globular clusters and its physical origin â€“ implications for the galaxy massâ€“metallicity relation and observations of proto-globular clusters at high redshift. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 486, L20-L25.	3.3	37
106	The photometric evolution of star clusters and the preferential loss of low-mass bodies â€“ with an application to globular clusters. Astronomy and Astrophysics, 2008, 490, 151-171.	5.1	37
107	Dynamical cluster disruption and its implications for multiple population models in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2851-2857.	4.4	36
108	Is the escape velocity in star clusters linked to extended star formation histories? Using NGC 7252:ÂW3 as a test case. Monthly Notices of the Royal Astronomical Society, 2016, 457, 809-821.	4.4	35

#	Article	IF	Citations
109	Fossil stellar streams and their globular cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2795-2806.	4.4	35
110	The role of galactic dynamics in shaping the physical properties of giant molecular clouds in Milky Way-like galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 498, 385-429.	4.4	35
111	A Tip of the Red Giant Branch Distance of 22.1 Â± 1.2 Mpc to the Dark Matter Deficient Galaxy NGC 1052â€“DF2 from 40 Orbits of Hubble Space Telescope Imaging. Astrophysical Journal Letters, 2021, 914, L12.	8.3	35
112	Explaining the mass-to-light ratios of globular clusters. Astronomy and Astrophysics, 2008, 486, L21-L24.	5.1	35
113	Stellar Feedback and Resolved Stellar IFU Spectroscopy in the Nearby Spiral Galaxy NGC 300. Astrophysical Journal, 2020, 891, 25.	4.5	35
114	The Molecular Gas Environment in the 20 km s^{â^'1} Cloud in the Central Molecular Zone. Astrophysical Journal, 2017, 839, 1.	4.5	34
115	PHANGSâ€“MUSE: The Hâ€¯II region luminosity function of local star-forming galaxies. Astronomy and Astrophysics, 2022, 658, A188.	5.1	34
116	The origin of the â€˜blue tiltâ€™ of globular cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3279-3301.	4.4	33
117	The globular cluster system massâ€“halo mass relation in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1050-1061.	4.4	33
118	PHANGSâ€“HST: star cluster spectral energy distribution fitting with <scp>cigale</scp>. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1366-1385.	4.4	33
119	The difference in metallicity distribution functions of halo stars and globular clusters as a function of galaxy type. Astronomy and Astrophysics, 2017, 606, A85.	5.1	32
120	A High Cluster Formation Efficiency in the Sagittarius B2 Complex. Astrophysical Journal Letters, 2018, 864, L17.	8.3	32
121	Star Formation Rates of Massive Molecular Clouds in the Central Molecular Zone. Astrophysical Journal, 2019, 872, 171.	4.5	32
122	The headlight cloud in NGC 628: An extreme giant molecular cloud in a typical galaxy disk. Astronomy and Astrophysics, 2020, 634, A121.	5.1	32
123	A trail of dark-matter-free galaxies from a bullet-dwarf collision. Nature, 2022, 605, 435-439.	27.8	32
124	Young star cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1714-1733.	4.4	31
125	The dynamical evolution of molecular clouds near the Galactic Centre â€“ III. Tidally induced star formation in protocluster clouds. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3307-3326.	4.4	31
126	Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. Astronomical Journal, 2022, 164, 43.	4.7	31

#	Article	IF	Citations
127	Young massive star cluster formation in the Galactic Centre is driven by global gravitational collapse of high-mass molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 486, 283-303.	4.4	29
128	The Origin of the Stellar Mass Distribution and Multiplicity. Space Science Reviews, 2020, 216, 1.	8.1	29
129	On the physical mechanisms governing the cloud lifecycle in the Central Molecular Zone of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3380-3385.	4.4	28
130	The [Î±/Fe]â€“[Fe/H] relation in the E-MOSAICS simulations: its connection to the birth place of globular clusters and the fraction of globular cluster field stars in the bulge. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4012-4022.	4.4	28
131	Star cluster classification in the PHANGSâ€“HST survey: Comparison between human and machine learning approaches. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5294-5317.	4.4	28
132	Do Spectroscopic Dense Gas Fractions Track Molecular Cloud Surface Densities?. Astrophysical Journal Letters, 2018, 868, L38.	8.3	27
133	A Model for the Onset of Self-gravitation and Star Formation in Molecular Gas Governed by Galactic Forces. II. The Bottleneck to Collapse Set by Cloudâ€“Environment Decoupling. Astrophysical Journal, 2020, 892, 73.	4.5	27
134	Where did the globular clusters of the Milky Way form? Insights from the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4248-4267.	4.4	27
135	Momentum feedback from marginally resolved Hâ€‰<scp>ii</scp> regions in isolated disc galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3470-3491.	4.4	27
136	CMZoom: Survey Overview and First Data Release. Astrophysical Journal, Supplement Series, 2020, 249, 35.	7.7	27
137	The Maybe Stream: A Possible Cold Stellar Stream in the Ultra-diffuse Galaxy NGC1052-DF2. Research Notes of the AAS, 2018, 2, 16.	0.7	27
138	Comparing the pre-SNe feedback and environmental pressures for 6000 Hâ€‰<scp>ii</scp>regions across 19 nearby spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5362-5389.	4.4	27
139	AlFoCS + Fornax3D: resolved star formation in the Fornax cluster with ALMA and MUSE. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2155-2182.	4.4	26
140	Predicting accreted satellite galaxy masses and accretion redshifts based on globular cluster orbits in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4863-4875.	4.4	25
141	PHANGS-HST: new methods for star cluster identification in nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4094-4127.	4.4	25
142	DEEPLY EMBEDDED PROTOSTELLAR POPULATION IN THE 20 km s ^{â^'1} CLOUD OF THE CENTRAL MOLECULAR ZONE. Astrophysical Journal Letters, 2015, 814, L18.	8.3	24
143	Spatially Resolved ¹²CO(2â€“1)/¹²CO(1â€“0) in the Starburst Galaxy NGC 253: Assessing Optical Depth to Constrain the Molecular Mass Outflow Rate. Astrophysical Journal, 2018, 867, 111.	4.5	24
144	A Census of Early-phase High-mass Star Formation in the Central Molecular Zone. Astrophysical Journal, Supplement Series, 2019, 244, 35.	7.7	24

#	Article	IF	Citations
145	The CO-dark molecular gas mass in 30 Doradus. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5279-5292.	4.4	24
146	Dense molecular gas properties on 100Âpc scales across the disc of NGCÂ3627. Monthly Notices of the Royal Astronomical Society, 2021, 506, 963-988.	4.4	24
147	Applying the Tremaineâ€“Weinberg Method to Nearby Galaxies: Stellar-mass-based Pattern Speeds and Comparisons with ISM Kinematics. Astronomical Journal, 2021, 161, 185.	4.7	23
148	NGC 5846-UDG1: A Galaxy Formed Mostly by Star Formation in Massive, Extremely Dense Clumps of Gas. Astrophysical Journal Letters, 2022, 927, L28.	8.3	23
149	An uncertainty principle for star formation â€“ III. The characteristic emission time-scales of star formation rate tracers. Monthly Notices of the Royal Astronomical Society, 2020, 498, 235-257.	4.4	22
150	The kinematics of globular cluster populations in the E-MOSAICS simulations and their implications for the assembly history of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 503, 31-58.	4.4	22
151	The 2D metallicity distribution and mixing scales of nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1303-1322.	4.4	22
152	A model for the minimum mass of bound stellar clusters and its dependence on the galactic environment. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3972-3994.	4.4	21
153	The mass fraction of halo stars contributed by the disruption of globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3422-3428.	4.4	21
154	The impact of pre-supernova feedback and its dependence on environment. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5425-5448.	4.4	21
155	The initial mass spectrum of old globular clusters in dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 420, 340-345.	4.4	20
156	ALMA Observations of Massive Clouds in the Central Molecular Zone: Jeans Fragmentation and Cluster Formation. Astrophysical Journal Letters, 2020, 894, L14.	8.3	20
157	Entropy-driven winds: Outflows and fountains lifted gently by buoyancy. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2149-2170.	4.4	20
158	Molecular Gas Properties and CO-to-H₂ Conversion Factors in the Central Kiloparsec of NGC 3351. Astrophysical Journal, 2022, 925, 72.	4.5	20
159	Pitfalls when observationally characterizing the relative formation rates of stars and stellar clusters in galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 457, L24-L28.	3.3	19
160	A tight relation between the age distributions of stellar clusters and the properties of the interstellar medium in the host galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1421-1435.	4.4	19
161	Frequency and nature of central molecular outflows in nearby star-forming disk galaxies. Astronomy and Astrophysics, 2021, 653, A172.	5.1	19
162	Bridging the Planet Radius Valley: Stellar Clustering as a Key Driver for Turning Sub-Neptunes into Super-Earths. Astrophysical Journal Letters, 2020, 905, L18.	8.3	19

#	Article	IF	Citations
163	The Gasâ€“Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and HÎ± Emission for 49 PHANGS Galaxies. Astrophysical Journal, 2022, 927, 9.	4.5	19
164	Exploring the link between star and planet formation with Ariel. Experimental Astronomy, 2022, 53, 225-278.	3.7	18
165	The emergence of dark matter-deficient ultra-diffuse galaxies driven by scatter in the stellar massâ€“halo mass relation and feedback from globular clusters. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3356-3378.	4.4	18
166	COLOR-MAGNITUDE RELATIONS WITHIN GLOBULAR CLUSTER SYSTEMS OF GIANT ELLIPTICAL GALAXIES: THE EFFECTS OF GLOBULAR CLUSTER MASS LOSS AND THE STELLAR INITIAL MASS FUNCTION. Astrophysical Journal, 2014, 780, 43.	4.5	17
167	An uncertainty principle for star formation â€“ IV. On the nature and filtering of diffuse emission. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2800-2824.	4.4	17
168	Constraining the formation of NGC 1052-DF2 from its unusual globular cluster population. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4841-4854.	4.4	17
169	Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672. Astrophysical Journal Letters, 2019, 885, L31.	8.3	17
170	WISDOM Project â€“ X. The morphology of the molecular ISM in galaxy centres and its dependence on galaxy structure. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1522-1540.	4.4	17
171	Testing viscous disc theory using the balance between stellar accretion and external photoevaporation of protoplanetary discs. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 497, L40-L45.	3.3	16
172	The centres of M83 and the Milky Way: opposite extremes of a common star formation cycle. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4310-4337.	4.4	16
173	CMZoom. II. Catalog of Compact Submillimeter Dust Continuum Sources in the Milky Wayâ€™s Central Molecular Zone. Astrophysical Journal, Supplement Series, 2020, 251, 14.	7.7	16
174	Bright, relatively isolated star clusters in PHANGSâ€“HST galaxies: Aperture corrections, quantitative morphologies, and comparison with synthetic stellar population models. Monthly Notices of the Royal Astronomical Society, 2021, 510, 32-53.	4.4	16
175	Uncertainties in supernova input rates drive qualitative differences in simulations of galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2022, 512, 199-215.	4.4	16
176	The evolution of the UV luminosity function of globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4550-4564.	4.4	15
177	A systematic analysis of star cluster disruption by tidal shocks â€“ I.ÂControlled N-body simulations and a new theoretical model. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5879-5894.	4.4	15
178	Planetary nebula luminosity function distances for 19 galaxies observed by PHANGSâ€“MUSE. Monthly Notices of the Royal Astronomical Society, 2022, 511, 6087-6109.	4.4	15
179	Introducing EMP-Pathfinder: modelling the simultaneous formation and evolution of stellar clusters in their host galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 517, 3144-3180.	4.4	15
180	ABSORPTION FILAMENTS TOWARD THE MASSIVE CLUMP G0.253+0.016. Astrophysical Journal, 2014, 795, 28.	4.5	14

#	Article	IF	Citations
181	ALMA Observations of Massive Clouds in the Central Molecular Zone: Ubiquitous Protostellar Outflows. Astrophysical Journal, 2021, 909, 177.	4.5	14
182	A 2â€“3 mm high-resolution molecular line survey towards the centre of the nearby spiral galaxy NGC 6946. Astronomy and Astrophysics, 2022, 659, A173.	5.1	14
183	Towards a multitracer timeline of star formation in the LMC â€“ I. Deriving the lifetimes of Hâ€‰i clouds. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2286-2301.	4.4	13
184	A scaling relation for the molecular cloud lifetime in Milky Way-like galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1678-1698.	4.4	13
185	The survival of globular clusters in a cuspy Fornax. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2339-2353.	4.4	13
186	Linking globular cluster formation at low and high redshift through the ageâ€“metallicity relation in E-MOSAICS. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4768-4778.	4.4	13
187	Radial distributions of globular clusters trace their host dark matter halo: insights from the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3925-3945.	4.4	13
188	The Impact of Stellar Clustering on the Observed Multiplicity and Orbital Periods of Planetary Systems. Astrophysical Journal Letters, 2021, 911, L16.	8.3	12
189	ALMA observations of the Extended Green Object G19.01â^'0.03 â€“ I. A Keplerian disc in a massive protostellar system. Monthly Notices of the Royal Astronomical Society, 2021, 509, 748-762.	4.4	12
190	Complex Modulation of Rapidly Rotating Young M Dwarfs: Adding Pieces to the Puzzle. Astronomical Journal, 2022, 163, 144.	4.7	12
191	Age determination of galaxy merger remnant stars using asteroseismology. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2527-2544.	4.4	12
192	When the Peas Jump around the Pod: How Stellar Clustering Affects the Observed Correlations between Planet Properties in Multiplanet Systems. Astrophysical Journal Letters, 2021, 910, L19.	8.3	11
193	Linking stellar populations to H II regions across nearby galaxies. Astronomy and Astrophysics, 2022, 662, L6.	5.1	11
194	Empirically motivated early feedback: momentum input by stellar feedback in galaxy simulations inferred through observations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5355-5374.	4.4	11
195	The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus 3.6 Î¼m Brightness Contrasts in Nearby Galaxies. Astrophysical Journal, 2021, 913, 113.	4.5	10
196	ALMA resolves giant molecular clouds in a tidal dwarf galaxy. Astronomy and Astrophysics, 2021, 645, A97.	5.1	10
197	The elephant in the bathtub: when the physics of star formation regulate the baryon cycle of galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2000-2011.	4.4	10
198	On the initial massâ€“radius relation of stellar clusters. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5492-5506.	4.4	8

#	Article	IF	Citations
199	When Gas Dynamics Decouples from Galactic Rotation: Characterizing ISM Circulation in Disk Galaxies. Astrophysical Journal, 2020, 892, 94.	4.5	7
200	A wind-blown bubble in the Central Molecular Zone cloud G0.253+0.016. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4758-4774.	4.4	7
201	WISDOM project â€“ XI. Star formation efficiency in the bulge of the AGN-host Galaxy NGCÂ3169 with SITELLE and ALMA. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5035-5055.	4.4	7
202	An uncertainty principle for star formation â€“ V. The influence of dust extinction on star formation rate tracer lifetimes and the inferred molecular cloud lifecycle. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5076-5089.	4.4	6
203	What to expect when using globular clusters as tracers of the total mass distribution in Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2828-2844.	4.4	6
204	Constraints on the Distribution of Gas and Young Stars in the Galactic Centre in the Context of Interpreting Gamma Ray Emission Features. Galaxies, 2018, 6, 55.	3.0	5
205	The initial conditions for young massive cluster formation in the Galactic Centre: convergence of large-scale gas flows. Monthly Notices of the Royal Astronomical Society, 2022, 514, 578-595.	4.4	5
206	The physics governing the upper truncation mass of the globular cluster mass function. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6190-6200.	4.4	4
207	Optical IFU spectroscopy of a bipolar microquasar jet in NGCÂ300. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3476-3485.	4.4	3
208	Modelling of ionizing feedback with smoothed particle hydrodynamics and Monte Carlo radiative transfer on a Voronoi grid. Monthly Notices of the Royal Astronomical Society, 2021, 507, 858-878.	4.4	3
209	The Phoenix stellar stream rose from the ashes of an ancient star cluster. Nature, 2020, 583, 687-688.	27.8	2
210	The implications of clustered star formation for (proto)planetary systems and habitability. Proceedings of the International Astronomical Union, 2018, 14, 61-65.	0.0	1
211	Towards a multi-scale understanding of the gas-star formation cycle in the Central Molecular Zone. Proceedings of the International Astronomical Union, 2016, 11, 64-74.	0.0	0
212	The present-day globular cluster kinematics of lenticular galaxies from the E-MOSAICS simulations and their relation to the galaxy assembly histories. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	0