

Simon C O Glover

List of Publications by Year in descending order

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Version: 2024-02-01

225
papers

13,787
citations

14614

66
h-index

29081

104
g-index

226
all docs

226
docs citations

226
times ranked

5220
citing authors

#	ARTICLE	IF	CITATIONS
1	SIMULATIONS ON A MOVING MESH: THE CLUSTERED FORMATION OF POPULATION III PROTOSTARS. <i>Astrophysical Journal</i> , 2011, 737, 75.	1.6	375
2	The Formation and Fragmentation of Disks Around Primordial Protostars. <i>Science</i> , 2011, 331, 1040-1042.	6.0	320
3	Formation and evolution of primordial protostellar systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 399-415.	1.6	271
4	<scp>Phantom</scp>: A Smoothed Particle Hydrodynamics and Magnetohydrodynamics Code for Astrophysics. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, .	1.3	267
5	The SILCC (Simulating the LifeCycle of molecular Clouds) project â€“ I. Chemical evolution of the supernova-driven ISM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 246-276.	1.6	255
6	Simulating the Formation of Molecular Clouds. I. Slow Formation by Gravitational Collapse from Static Initial Conditions. <i>Astrophysical Journal, Supplement Series</i> , 2007, 169, 239-268.	3.0	243
7	GRAVITATIONAL FRAGMENTATION IN TURBULENT PRIMORDIAL GAS AND THE INITIAL MASS FUNCTION OF POPULATION III STARS. <i>Astrophysical Journal</i> , 2011, 727, 110.	1.6	240
8	Uncertainties in H₂ and HD chemistry and cooling and their role in early structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 1627-1651.	1.6	224
9	Simulating the Formation of Molecular Clouds. II. Rapid Formation from Turbulent Initial Conditions. <i>Astrophysical Journal</i> , 2007, 659, 1317-1337.	1.6	223
10	THE FIRST GALAXIES: CHEMICAL ENRICHMENT, MIXING, AND STAR FORMATION. <i>Astrophysical Journal</i> , 2010, 716, 510-520.	1.6	208
11	On the relationship between molecular hydrogen and carbon monoxide abundances in molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 337-350.	1.6	205
12	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2217-2234.	1.6	201
13	The First Stellar Cluster. <i>Astrophysical Journal</i> , 2008, 672, 757-764.	1.6	180
14	The density variance-Mach number relation in supersonic turbulence - I. Isothermal, magnetized gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2680-2689.	1.6	179
15	The lifecycle of molecular clouds in nearby star-forming disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2872-2909.	1.6	178
16	The SILCC (Simulating the LifeCycle of molecular Clouds) project â€“ II. Dynamical evolution of the supernova-driven ISM and the launching of outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3432-3455.	1.6	166
17	LAUNCHING COSMIC-RAY-DRIVEN OUTFLOWS FROM THE MAGNETIZED INTERSTELLAR MEDIUM. <i>Astrophysical Journal Letters</i> , 2016, 816, L19.	3.0	163
18	PHANGSâ€™ ALMA: Arcsecond CO(2â€™1) Imaging of Nearby Star-forming Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 43.	3.0	161

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19	Star Formation at Very Low Metallicity. I. Chemistry and Cooling at Low Densities. <i>Astrophysical Journal</i> , 2007, 666, 1-19.	1.6	156
20	CO-dark gas and molecular filaments in Milky Way-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1628-1645.	1.6	153
21	The SILCC project – III. Regulation of star formation and outflows by stellar winds and supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1903-1924.	1.6	149
22	TOPoS. <i>Astronomy and Astrophysics</i> , 2015, 579, A28.	2.1	141
23	On the nature of star-forming filaments – I. Filament morphologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2900-2917.	1.6	137
24	Modelling the supernova-driven ISM in different environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1057-1075.	1.6	128
25	Modelling CO formation in the turbulent interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	1.6	126
26	Physical Processes in the Interstellar Medium. <i>Saas-Fee Advanced Course</i> , 2016, , 85-249.	1.1	126
27	TreeCol: a novel approach to estimating column densities in astrophysical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 745-756.	1.6	123
28	THE SMALL-SCALE DYNAMO AND NON-IDEAL MAGNETOHYDRODYNAMICS IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 754, 99.	1.6	119
29	The HI/OH/Recombination line survey of the inner Milky Way (THOR). <i>Astronomy and Astrophysics</i> , 2016, 595, A32.	2.1	118
30	Titans of the early Universe: The Prato statement on the origin of the first supermassive black holes. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	1.3	114
31	Experimental Results for H ₂ Formation from H ⁺ and H and Implications for First Star Formation. <i>Science</i> , 2010, 329, 69-71.	6.0	113
32	THE ROLE OF COSMIC-RAY PRESSURE IN ACCELERATING GALACTIC OUTFLOWS. <i>Astrophysical Journal Letters</i> , 2016, 827, L29.	3.0	113
33	DUST AND GAS IN THE MAGELLANIC CLOUDS FROM THE HERITAGE HERSCHEL KEY PROJECT. II. GAS-TO-DUST RATIO VARIATIONS ACROSS INTERSTELLAR MEDIUM PHASES. <i>Astrophysical Journal</i> , 2014, 797, 86.	1.6	112
34	ON THE INITIAL MASS FUNCTION OF LOW-METALLICITY STARS: THE IMPORTANCE OF DUST COOLING. <i>Astrophysical Journal</i> , 2013, 766, 103.	1.6	110
35	The Formation Of The First Stars In The Universe. <i>Space Science Reviews</i> , 2005, 117, 445-508.	3.7	109
36	Star formation and molecular hydrogen in dwarf galaxies: a non-equilibrium view. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3528-3553.	1.6	109

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37	How long does it take to form a molecular cloud?. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2599-2613.	1.6	107
38	Star formation in metal-poor gas clouds. Monthly Notices of the Royal Astronomical Society, 2012, 426, 377-388.	1.6	106
39	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.	1.6	106
40	Mapping Metallicity Variations across Nearby Galaxy Disks. Astrophysical Journal, 2019, 887, 80.	1.6	103
41	Radiative feedback from an early X-ray background. Monthly Notices of the Royal Astronomical Society, 2003, 340, 210-226.	1.6	102
42	Winds and radiation in unison: a new semi-analytic feedback model for cloud dissolution. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4453-4472.	1.6	102
43	THE FIRST GALAXIES: ASSEMBLY WITH BLACK HOLE FEEDBACK. Astrophysical Journal, 2012, 754, 34.	1.6	100
44	THE IDENTIFICATION OF FILAMENTS ON FAR-INFRARED AND SUBMILLIMETER IMAGES: MORPHOLOGY, PHYSICAL CONDITIONS AND RELATION WITH STAR FORMATION OF FILAMENTARY STRUCTURE. Astrophysical Journal, 2014, 791, 27.	1.6	99
45	The effects of accretion luminosity upon fragmentation in the early universe. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3633-3644.	1.6	98
46	On the nature of star-forming filaments – II. Subfilaments and velocities. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3640-3655.	1.6	96
47	The PHANGS-MUSE survey. Astronomy and Astrophysics, 2022, 659, A191.	2.1	96
48	Is molecular gas necessary for star formation?. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	92
49	SILCC-Zoom: the dynamic and chemical evolution of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4797-4818.	1.6	89
50	Variable interstellar radiation fields in simulated dwarf galaxies: supernovae versus photoelectric heating. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2151-2173.	1.6	89
51	Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies. Astrophysical Journal, 2020, 892, 148.	1.6	88
52	The SILCC project – IV. Impact of dissociating and ionizing radiation on the interstellar medium and H α emission as a tracer of the star formation rate. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3293-3308.	1.6	86
53	The ISM in spiral galaxies: can cooling in spiral shocks produce molecular clouds?. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1097-1110.	1.6	85
54	Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. Astrophysical Journal Letters, 2020, 901, L8.	3.0	85

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55	Constraining the primordial initial mass function with stellar archaeology. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3892-3908.	1.6	81
56	PHANGS' ALMA Data Processing and Pipeline. Astrophysical Journal, Supplement Series, 2021, 255, 19.	3.0	79
57	Is H_{2} cooling ever important in primordial gas?. Monthly Notices of the Royal Astronomical Society, 2009, 393, 911-948.	1.6	78
58	On the photodissociation of H_2 by the first stars. Monthly Notices of the Royal Astronomical Society, 2001, 321, 385-397.	1.6	77
59	Descendants of the first stars: the distinct chemical signature of second-generation stars. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1795-1810.	1.6	77
60	PHANGS CO Kinematics: Disk Orientations and Rotation Curves at 150 pc Resolution. Astrophysical Journal, 2020, 897, 122.	1.6	77
61	Is atomic carbon a good tracer of molecular gas in metal-poor galaxies?. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3596-3609.	1.6	76
62	QUANTIFYING OBSERVATIONAL PROJECTION EFFECTS USING MOLECULAR CLOUD SIMULATIONS. Astrophysical Journal, 2013, 777, 173.	1.6	75
63	Giant molecular cloud catalogues for PHANGS-ALMA: methods and initial results. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1218-1245.	1.6	75
64	BLACK HOLE FORMATION IN PRIMORDIAL GALAXIES: CHEMICAL AND RADIATIVE CONDITIONS. Astrophysical Journal Letters, 2010, 712, L69-L72.	3.0	73
65	THE EFFECT OF DUST COOLING ON LOW-METALLICITY STAR-FORMING CLOUDS. Astrophysical Journal Letters, 2011, 729, L3.	3.0	70
66	The formation of direct collapse black holes under the influence of streaming velocities. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4878-4884.	1.6	70
67	The Cloud Factory I: Generating resolved filamentary molecular clouds from galactic-scale forces. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1594-1613.	1.6	67
68	Approximations for modelling CO chemistry in giant molecular clouds: a comparison of approaches. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	66
69	Modelling $[C\ II]$ emission from turbulent molecular clouds. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1607-1627.	1.6	65
70	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.	1.6	65
71	A theoretical explanation for the Central Molecular Zone asymmetry. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2383-2402.	1.6	64
72	The influence of streaming velocities on the formation of the first stars. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3510-3521.	1.6	64

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73	New constraints on direct collapse black hole formation in the early Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4209-4217.	1.6	63
74	Galactic supernova remnant candidates discovered by THOR. <i>Astronomy and Astrophysics</i> , 2017, 605, A58.	2.1	63
75	On the duration of the embedded phase of star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 487-509.	1.6	61
76	SILCC VI – Multiphase ISM structure, stellar clustering, and outflows with supernovae, stellar winds, ionizing radiation, and cosmic rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1039-1061.	1.6	61
77	Simulating the formation of massive seed black holes in the early Universe – I. An improved chemical model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2082-2096.	1.6	60
78	Chemical mixing in smoothed particle hydrodynamics simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1381-1387.	1.6	58
79	EFFECTS OF VARYING THE THREE-BODY MOLECULAR HYDROGEN FORMATION RATE IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2011, 726, 55.	1.6	58
80	The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 10.	3.0	58
81	The Gas – Star Formation Cycle in Nearby Star-forming Galaxies. I. Assessment of Multi-scale Variations. <i>Astrophysical Journal</i> , 2019, 887, 49.	1.6	57
82	Simulations of the Milky Way’s central molecular zone – I. Gas dynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4455-4478.	1.6	57
83	THE INFLUENCE OF MAGNETIC FIELDS ON THE THERMODYNAMICS OF PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2009, 703, 1096-1106.	1.6	56
84	ON THE TEMPERATURE STRUCTURE OF THE GALACTIC CENTER CLOUD G0.253+0.016. <i>Astrophysical Journal Letters</i> , 2013, 768, L34.	3.0	55
85	Star Formation at Very Low Metallicity. II. On the Insignificance of Metal Line Cooling During the Early Stages of Gravitational Collapse. <i>Astrophysical Journal</i> , 2007, 660, 1332-1343.	1.6	53
86	On column density thresholds and the star formation rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 2396-2414.	1.6	53
87	The 12CO/13CO ratio in turbulent molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 4055-4072.	1.6	53
88	Tracing the formation of molecular clouds via $^{13}\text{C}^{18}\text{O}$, $^{13}\text{C}^{17}\text{O}$, and CO emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4622-4637.	1.6	53
89	Stellar structures, molecular gas, and star formation across the PHANGS sample of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2021, 656, A133.	2.1	53
90	Introducing the FirstLight project: UV luminosity function and scaling relations of primeval galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2791-2798.	1.6	52

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91	<scp>warpfield</scp>2.0: feedback-regulated minimum star formation efficiencies of giant molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2547-2560.	1.6	52
92	Formation sites of Population III star formation: The effects of different levels of rotation and turbulence on the fragmentation behaviour of primordial gas. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1871-1893.	1.6	52
93	The HI/OH/Recombination line survey of the inner Milky Way (THOR): data release 2 and H&I overview. Astronomy and Astrophysics, 2020, 634, A83.	2.1	52
94	THOR: The H&I, OH, Recombination line survey of the Milky Way. Astronomy and Astrophysics, 2015, 580, A112.	2.1	51
95	Simulations of the star-forming molecular gas in an interacting M51-like galaxy. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2973-2995.	1.6	51
96	A tale of two DIGs: The relative role of H&II regions and low-mass hot evolved stars in powering the diffuse ionised gas (DIG) in PHANGS&MUSE galaxies. Astronomy and Astrophysics, 2022, 659, A26.	2.1	51
97	Star formation scaling relations at $\sim 1/4$ 100 pc from PHANGS: Impact of completeness and spatial scale. Astronomy and Astrophysics, 2021, 650, A134.	2.1	50
98	STAR FORMATION AT VERY LOW METALLICITY. V. THE GREATER IMPORTANCE OF INITIAL CONDITIONS COMPARED TO METALLICITY THRESHOLDS. Astrophysical Journal, 2009, 694, 1161-1170.	1.6	49
99	Simulating the formation of massive seed black holes in the early Universe & II. Impact of rate coefficient uncertainties. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2902-2919.	1.6	49
100	Simulations of the Milky Way&TM's Central Molecular Zone & II. Star formation. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5024-5040.	1.6	48
101	Modelling H2 formation in the turbulent interstellar medium: solenoidal versus compressive turbulent forcing. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2531-2542.	1.6	47
102	Variable accretion rates and fluffy first stars. Monthly Notices of the Royal Astronomical Society, 2012, 424, 457-463.	1.6	47
103	THE CO-TO-H₂ CONVERSION FACTOR ACROSS THE PERSEUS MOLECULAR CLOUD. Astrophysical Journal, 2014, 784, 80.	1.6	47
104	Predicting the locations of possible long-lived low-mass first stars: importance of satellite dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 473, 5308-5323.	1.6	47
105	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.	2.1	47
106	On the formation of very metal poor stars: the case of SDSS&fJ1029151+172927. Monthly Notices of the Royal Astronomical Society, 2012, 421, 3217-3221.	1.6	46
107	Comparing Gas&Phase and Grain&catalyzed H2Formation. Astrophysical Journal, 2003, 584, 331-338.	1.6	46
108	Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. Astrophysical Journal, 2022, 927, 149.	1.6	46

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109	The First Stars. Astrophysics and Space Science Library, 2013, , 103-174.	1.0	45
110	Measuring the mixing scale of the ISM within nearby spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 193-209.	1.6	44
111	Physical Processes in Star Formation. Space Science Reviews, 2020, 216, 1.	3.7	43
112	THE ABUNDANCE OF MOLECULAR HYDROGEN AND ITS CORRELATION WITH MIDPLANE PRESSURE IN GALAXIES: NON-EQUILIBRIUM, TURBULENT, CHEMICAL MODELS. Astrophysical Journal, 2012, 746, 135.	1.6	42
113	How an improved implementation of H_2 self-shielding influences the formation of massive stars and black holes. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1233-1244.	1.6	42
114	A simple method to convert sink particles into stars. Monthly Notices of the Royal Astronomical Society, 2017, 466, 407-412.	1.6	42
115	The SILCC project – V. The impact of magnetic fields on the chemistry and the formation of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3511-3540.	1.6	42
116	Does the CO-to- H_2 conversion factor depend on the star formation rate?. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2057-2070.	1.6	41
117	Continuum sources from the THOR survey between 1 and 2 GHz. Astronomy and Astrophysics, 2016, 588, A97.	2.1	41
118	Lyman-Werner UV escape fractions from primordial haloes. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2441-2450.	1.6	40
119	Fervent: chemistry-coupled, ionizing and non-ionizing radiative feedback in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2015, 454, 380-411.	1.6	39
120	The influence of streaming velocities and Lyman-Werner radiation on the formation of the first stars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1775-1787.	1.6	39
121	Exploring the nature of the Lyman- α emitter CR7. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2184-2202.	1.6	38
122	A dynamical mechanism for the origin of nuclear rings. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2-19.	1.6	38
123	Ubiquitous velocity fluctuations throughout the molecular interstellar medium. Nature Astronomy, 2020, 4, 1064-1071.	4.2	38
124	Turbulent mixing in the interstellar medium: an application for Lagrangian tracer particles. Physica Scripta, 2008, T132, 014025.	1.2	38
125	Using CO line ratios to trace the physical properties of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2277-2285.	1.6	36
126	CO-dark gas and molecular filaments in Milky Way-type galaxies – II. The temperature distribution of the gas. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3011-3025.	1.6	35

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127	A new statistical model for Population III supernova rates: discriminating between Λ CDM and WDM cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3591-3601.	1.6	35
128	The role of galactic dynamics in shaping the physical properties of giant molecular clouds in Milky Way-like galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 385-429.	1.6	35
129	PHANGSâ€œMUSE: The H α region luminosity function of local star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2022, 658, A188.	2.1	34
130	A quantification of the non-spherical geometry and accretion of collapsing cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1354-1366.	1.6	33
131	How well does CO emission measure the H ₂ mass of MCs?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 82-102.	1.6	33
132	The headlight cloud in NGC 628: An extreme giant molecular cloud in a typical galaxy disk. <i>Astronomy and Astrophysics</i> , 2020, 634, A121.	2.1	32
133	Radio continuum emission in the northern Galactic plane: Sources and spectral indices from the THOR survey. <i>Astronomy and Astrophysics</i> , 2018, 619, A124.	2.1	32
134	Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. <i>Astronomical Journal</i> , 2022, 164, 43.	1.9	31
135	WEAKLY INTERACTING MASSIVE PARTICLE DARK MATTER AND FIRST STARS: SUPPRESSION OF FRAGMENTATION IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 761, 154.	1.6	30
136	Molecular cooling in the diffuse interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 9-20.	1.6	30
137	CO line ratios in molecular clouds: the impact of environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1508-1520.	1.6	30
138	Histogram of oriented gradients: a technique for the study of molecular cloud formation. <i>Astronomy and Astrophysics</i> , 2019, 622, A166.	2.1	30
139	LEGO â€œ II. A 3â€œmm molecular line study covering 100â€œpc of one of the most actively star-forming portions within the Milky Way disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1972-2001.	1.6	30
140	Lymanâ€œWerner escape fractions from the first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 2288-2300.	1.6	29
141	Forming clusters within clusters: how 30 Doradus recollapsed and gave birth again. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L11-L15.	1.2	29
142	WARPFIELD-EMP: The self-consistent prediction of emission lines from evolving H α regions in dense molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 339-363.	1.6	29
143	The history of dynamics and stellar feedback revealed by the H α filamentary structure in the disk of the Milky Way. <i>Astronomy and Astrophysics</i> , 2020, 642, A163.	2.1	29
144	FirstLight II: Star formation rates of primeval galaxies from z=5-15. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	28

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145	The geometry of the gas surrounding the Central Molecular Zone: on the origin of localized molecular clouds with extreme velocity dispersions. Monthly Notices of the Royal Astronomical Society, 2019, 488, 4663-4673.	1.6	28
146	Observational constraints on the survival of pristine stars. Monthly Notices of the Royal Astronomical Society, 2019, 487, 486-490.	1.6	28
147	Efficacy of early stellar feedback in low gas surface density environments. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2088-2103.	1.6	28
148	Do Spectroscopic Dense Gas Fractions Track Molecular Cloud Surface Densities?. Astrophysical Journal Letters, 2018, 868, L38.	3.0	27
149	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 Cloud's Environment Decoupling. Astrophysical Journal, 2020, 892, 73.	1.6	27
150	Cloud formation in the atomic and molecular phase: H ₂ self absorption (HISA) towards a giant molecular filament. Astronomy and Astrophysics, 2020, 634, A139.	2.1	27
151	Comparing the pre-SNe feedback and environmental pressures for 6000 H ₂ regions across 19 nearby spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5362-5389.	1.6	27
152	FirstLight III: rest-frame UV-optical spectral energy distributions of simulated galaxies at cosmic dawn. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1366-1377.	1.6	26
153	Cloud formation in colliding flows: influence of the choice of cooling function. Monthly Notices of the Royal Astronomical Society, 2013, 432, 626-636.	1.6	25
154	A NEW APPROACH TO DETERMINE OPTICALLY THICK H ₂ COOLING AND ITS EFFECT ON PRIMORDIAL STAR FORMATION. Astrophysical Journal, 2015, 799, 114.	1.6	25
155	How the First Stars Regulated Star Formation. II. Enrichment by Nearby Supernovae. Astrophysical Journal, 2017, 844, 111.	1.6	25
156	Synthetic [C ¹⁸ O] emission maps of a simulated molecular cloud in formation. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4277-4299.	1.6	25
157	A minimum dilution scenario for supernovae and consequences for extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3703-3712.	1.6	25
158	PHANGS-HST: new methods for star cluster identification in nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4094-4127.	1.6	25
159	Strong Excess Faraday Rotation on the Inside of the Sagittarius Spiral Arm. Astrophysical Journal Letters, 2019, 887, L7.	3.0	24
160	Dense molecular gas properties on 100 pc scales across the disc of NGC 3627. Monthly Notices of the Royal Astronomical Society, 2021, 506, 963-988.	1.6	24
161	Relations between Molecular Cloud Structure Sizes and Line Widths in the Large Magellanic Cloud. Astrophysical Journal, 2019, 885, 50.	1.6	24
162	The IMF as a function of supersonic turbulence. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4171-4182.	1.6	23

#	ARTICLE	IF	CITATIONS
163	On the Detection of Supermassive Primordial Stars. <i>Astrophysical Journal Letters</i> , 2018, 869, L39.	3.0	23
164	Applying the Tremaineâ€“Weinberg Method to Nearby Galaxies: Stellar-mass-based Pattern Speeds and Comparisons with ISM Kinematics. <i>Astronomical Journal</i> , 2021, 161, 185.	1.9	23
165	On the resolution requirements for modelling molecular gas formation in solar neighbourhood conditions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1735-1755.	1.6	22
166	The 2D metallicity distribution and mixing scales of nearby galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1303-1322.	1.6	22
167	Star formation efficiencies of molecular clouds in a galactic centre environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3679-3692.	1.6	21
168	Non-equilibrium chemistry and destruction of CO by X-ray flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 1094-1122.	1.6	21
169	warpfield population synthesis: the physics of (extra-)Galactic star formation and feedback-driven cloud structure and emission from sub-to-kpc scales. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3193-3214.	1.6	21
170	IMPACT OF SUPERNOVA AND COSMIC-RAY DRIVING ON THE SURFACE BRIGHTNESS OF THE GALACTIC HALO IN SOFT X-RAYS. <i>Astrophysical Journal Letters</i> , 2015, 813, L27.	3.0	20
171	OH absorption in the first quadrant of the Milky Way as seen by THOR. <i>Astronomy and Astrophysics</i> , 2018, 618, A159.	2.1	20
172	Feedback in W49A diagnosed with radio recombination lines and models. <i>Astronomy and Astrophysics</i> , 2019, 622, A48.	2.1	20
173	OH maser emission in the THOR survey of the northern Milky Way. <i>Astronomy and Astrophysics</i> , 2019, 628, A90.	2.1	20
174	On the detection of supermassive primordial stars â€“ II. Blue supergiants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3995-4003.	1.6	19
175	The Gasâ€“Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H \pm Emission for 49 PHANGS Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 9.	1.6	19
176	Effect of the cosmological transition to metal-enriched star formation on the hydrogen 21-cm signal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4433-4449.	1.6	18
177	Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672. <i>Astrophysical Journal Letters</i> , 2019, 885, L31.	3.0	17
178	Fragmentation-induced starvation in Population III star formation: a resolution study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4019-4030.	1.6	17
179	Synthetic observations of molecular clouds in a galactic centre environment â€“ I. Studying maps of column density and integrated intensity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3763-3778.	1.6	16
180	The parsecâ€“scale relationship between ICO and AV in local molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4672-4708.	1.6	16

#	ARTICLE	IF	CITATIONS
181	Dynamical cloud formation traced by atomic and molecular gas. <i>Astronomy and Astrophysics</i> , 2020, 638, A44.	2.1	16
182	Bright, relatively isolated star clusters in PHANGSâ€™ HST galaxies: Aperture corrections, quantitative morphologies, and comparison with synthetic stellar population models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 32-53.	1.6	16
183	Dynamically Driven Inflow onto the Galactic Center and its Effect upon Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 922, 79.	1.6	16
184	Trapping of H α regions in Population III star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 116-136.	1.6	16
185	Statistical properties of dark matter mini-haloes at $z \approx 15$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1942-1955.	1.6	15
186	Planetary nebula luminosity function distances for 19 galaxies observed by PHANGSâ€™ MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 6087-6109.	1.6	15
187	The Galactic dynamics revealed by the filamentary structure in atomic hydrogen emission. <i>Astronomy and Astrophysics</i> , 2022, 662, A96.	2.1	15
188	cooling in primordial gas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 3107-3112.	1.6	14
189	A SOFIA Survey of [C ii] in the Galaxy M51. I. [C ii] as a Tracer of Star Formation. <i>Astrophysical Journal Letters</i> , 2018, 869, L30.	3.0	14
190	Simulations of the star-forming molecular gas in an interacting M51-like galaxy: cloud population statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5438-5459.	1.6	14
191	Centroid velocity statistics of molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3777-3787.	1.6	13
192	The turbulent life of dust grains in the supernova-driven, multiphase interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4322-4342.	1.6	13
193	sprai: coupling of radiative feedback and primordial chemistry in moving mesh hydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2822-2834.	1.6	13
194	Principal component analysis of molecular clouds: can CO reveal the dynamics?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 465-475.	1.6	12
195	The Survey of Lines in M31 (SLIM): The Drivers of the [C ii]/TIR Variation. <i>Astrophysical Journal</i> , 2017, 842, 128.	1.6	12
196	New ALMA constraints on the star-forming interstellar medium at low metallicity: a 50 kpc view of the blue compact dwarf galaxy SBS 0335-052. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 468, L87-L91.	1.2	12
197	The impact of magnetic fields on the chemical evolution of the supernova-driven ISM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4611-4633.	1.6	12
198	Metal Mixing in Minihalos: The Descendants of Pair-instability Supernovae. <i>Astrophysical Journal</i> , 2022, 929, 119.	1.6	12

#	ARTICLE	IF	CITATIONS
199	Radiative feedback from ionized gas. Monthly Notices of the Royal Astronomical Society, 2007, 379, 1352-1358.	1.6	11
200	Linking stellar populations to H II regions across nearby galaxies. Astronomy and Astrophysics, 2022, 662, L6.	2.1	11
201	The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus 3.6 Åm Brightness Contrasts in Nearby Galaxies. Astrophysical Journal, 2021, 913, 113.	1.6	10
202	Atomic and molecular gas properties during cloud formation. Astronomy and Astrophysics, 2020, 642, A68.	2.1	10
203	Tracing stars in Milky Way satellites with α -sloth. Monthly Notices of the Royal Astronomical Society, 2022, 513, 934-950.	1.6	10
204	Structure analysis of simulated molecular clouds with the $\hat{\rho}$ -variance. Monthly Notices of the Royal Astronomical Society, 2015, 451, 196-209.	1.6	9
205	Less than the sum of its parts: the dust-corrected $H\alpha$ luminosity of star-forming galaxies explored at different spatial resolutions with MaNGA and MUSE. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4205-4221.	1.6	9
206	Synthetic observations of spiral arm tracers of a simulated Milky Way analog. Astronomy and Astrophysics, 2020, 642, A201.	2.1	9
207	The Cloud Factory II: gravoturbulent kinematics of resolved molecular clouds in a galactic potential. Monthly Notices of the Royal Astronomical Society, 2020, 500, 5268-5296.	1.6	9
208	A CO isotopologue Line Atlas within the Whirlpool galaxy Survey (CLAWS). Astronomy and Astrophysics, 2022, 662, A89.	2.1	9
209	The ‘‘Maggie’’ filament: Physical properties of a giant atomic cloud. Astronomy and Astrophysics, 2022, 657, A1.	2.1	8
210	Globular Clusters and Streaming Velocities: Testing the New Formation Channel in High-resolution Cosmological Simulations. Astrophysical Journal, 2021, 922, 193.	1.6	8
211	Emission-line diagnostics of H II regions using conditional invertible neural networks. Monthly Notices of the Royal Astronomical Society, 2022, 512, 617-647.	1.6	8
212	Shape and spin of minihaloes II. The effect of streaming velocities. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4839-4852.	1.6	7
213	When Gas Dynamics Decouples from Galactic Rotation: Characterizing ISM Circulation in Disk Galaxies. Astrophysical Journal, 2020, 892, 94.	1.6	7
214	The signature of large-scale turbulence driving on the structure of the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3670-3684.	1.6	7
215	Effects of binary stellar populations on direct collapse black hole formation. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 468, L82-L86.	1.2	6
216	Shape and spin of minihaloes: from large scales to the centres. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3266-3277.	1.6	6

#	ARTICLE	IF	CITATIONS
217	SPRAI-II: multifrequency radiative transfer for variable gas densities. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3594-3609.	1.6	6
218	The filamentary structures in the CO emission toward the Milky Way disk. Astronomy and Astrophysics, 2021, 651, L4.	2.1	6
219	A SOFIA Survey of [C ii] in the Galaxy M51. II. [C ii] and CO Kinematics across the Spiral Arms. Astrophysical Journal, 2020, 900, 132.	1.6	6
220	Is the molecular KS relationship universal down to low metallicities?. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4146-4165.	1.6	5
221	The Chemistry of the Early Universe. Proceedings of the International Astronomical Union, 2011, 7, 313-324.	0.0	4
222	FirstLight IV: diversity in sub-L* galaxies at cosmic dawn. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4472-4480.	1.6	4
223	Unusual Galactic H ii Regions at the Intersection of the Central Molecular Zone and the Far Dust Lane. Astrophysical Journal, 2020, 901, 51.	1.6	4
224	Fragmentation in turbulent primordial gas. Proceedings of the International Astronomical Union, 2010, 6, 499-502.	0.0	2
225	Laboratory Simulations of Molecular Hydrogen Formation in the Early Universe: A Progress Report. , 2010, , .		0