

# Ralf S. Klessen

## List of Publications by Year in descending order

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Version: 2024-02-01

390  
papers

26,146  
citations

5126

86  
h-index

11282

141  
g-index

391  
all docs

391  
docs citations

391  
times ranked

7067  
citing authors

#	ARTICLE	IF	CITATIONS
1	The “Maggie” filament: Physical properties of a giant atomic cloud. <i>Astronomy and Astrophysics</i> , 2022, 657, A1.	2.1	8
2	PHANGS-MUSE: The H II region luminosity function of local star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2022, 658, A188.	2.1	34
3	A 2–3 mm high-resolution molecular line survey towards the centre of the nearby spiral galaxy NGC 6946. <i>Astronomy and Astrophysics</i> , 2022, 659, A173.	2.1	14
4	Planetary nebula luminosity function distances for 19 galaxies observed by PHANGS-MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 6087-6109.	1.6	15
5	The PHANGS-MUSE survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A191.	2.1	96
6	A CO isotopologue Line Atlas within the Whirlpool galaxy Survey (CLAWS). <i>Astronomy and Astrophysics</i> , 2022, 662, A89.	2.1	9
7	Emission-line diagnostics of H II regions using conditional invertible neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 617-647.	1.6	8
8	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
9	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. <i>Astronomy and Astrophysics</i> , 2022, 659, A26.	2.1	51
10	Gravity versus Magnetic Fields in Forming Molecular Clouds. <i>Astrophysical Journal</i> , 2022, 925, 196.	1.6	10
11	Trapping of H II regions in Population III star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 116-136.	1.6	16
12	The Gas Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H I Emission for 49 PHANGS Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 9.	1.6	19
13	Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. <i>Astrophysical Journal</i> , 2022, 927, 149.	1.6	46
14	Self-consistent modelling of the Milky Way’s nuclear stellar disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1857-1884.	1.6	26
15	Origin of supermassive black holes in massive metal-poor protoclusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 6192-6200.	1.6	13
16	Tracing stars in Milky Way satellites with $\alpha$ -sloth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 934-950.	1.6	10
17	Is the molecular KS relationship universal down to low metallicities?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4146-4165.	1.6	5
18	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

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19	Metal Mixing in Minihalos: The Descendants of Pair-instability Supernovae. <i>Astrophysical Journal</i> , 2022, 929, 119.	1.6	12
20	Gangotri Waveâ€”A High Density Gas Ripple in the Inner Galaxy. <i>Research Notes of the AAS</i> , 2022, 6, 85.	0.3	0
21	The physical origin and the properties of arm spurs/feathers in local simulations of the wobble instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5052-5075.	1.6	6
22	The Galactic dynamics revealed by the filamentary structure in atomic hydrogen emission. <i>Astronomy and Astrophysics</i> , 2022, 662, A96.	2.1	15
23	Linking stellar populations to H II regions across nearby galaxies. <i>Astronomy and Astrophysics</i> , 2022, 662, L6.	2.1	11
24	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
25	The signature of large-scale turbulence driving on the structure of the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 3670-3684.	1.6	7
26	Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. <i>Astronomical Journal</i> , 2022, 164, 43.	1.9	31
27	Distances to PHANGS galaxies: New tip of the red giant branch measurements and adopted distances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3621-3639.	1.6	106
28	Star cluster classification in the PHANGSâ€” <i>HST</i> survey: Comparison between human and machine learning approaches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5294-5317.	1.6	28
29	The sonic scale of interstellar turbulence. <i>Nature Astronomy</i> , 2021, 5, 365-371.	4.2	73
30	Fiery Cores: Bursty and Smooth Star Formation Distributions across Galaxy Centers in Cosmological Zoom-in Simulations. <i>Astrophysical Journal Letters</i> , 2021, 908, L31.	3.0	9
31	Filament Rotation in the California L1482 Cloud. <i>Astrophysical Journal</i> , 2021, 908, 86.	1.6	13
32	The CARMA-NRO Orion Surveyâ€”Data Release. <i>Research Notes of the AAS</i> , 2021, 5, 55.	0.3	2
33	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
34	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. <i>Astrophysical Journal Letters</i> , 2021, 910, L6.	3.0	15
35	SILCC VI â€” 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
36	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

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37	A multishock model for the density variance of anisotropic, highly magnetized, supersonic turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4354-4368.	1.6	17
38	High-resolution CARMA Observation of Molecular Gas in the North America and Pelican Nebulae. <i>Astronomical Journal</i> , 2021, 161, 229.	1.9	2
39	FirstLight IV: diversity in sub-L* galaxies at cosmic dawn. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4472-4480.	1.6	4
40	Measuring Young Stars in Space and Time. I. The Photometric Catalog and Extinction Properties of N44. <i>Astronomical Journal</i> , 2021, 161, 256.	1.9	2
41	Measuring Young Stars in Space and Time. II. The Pre-main-sequence Stellar Content of N44. <i>Astronomical Journal</i> , 2021, 161, 257.	1.9	6
42	Stellar collisions in flattened and rotating Population III star clusters. <i>Astronomy and Astrophysics</i> , 2021, 649, A160.	2.1	14
43	Density profile of a self-gravitating polytropic turbulent fluid in the context of ensembles of molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 3655-3663.	1.6	6
44	The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus 3.6 $\mu$ m Brightness Contrasts in Nearby Galaxies. <i>Astrophysical Journal</i> , 2021, 913, 113.	1.6	10
45	Dense molecular gas properties on 100 $\mu$ pc scales across the disc of NGC 3627. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 963-988.	1.6	24
46	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
47	The filamentary structures in the CO emission toward the Milky Way disk. <i>Astronomy and Astrophysics</i> , 2021, 651, L4.	2.1	6
48	The influence of streaming velocities and Lyman- $\alpha$ Werner radiation on the formation of the first stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1775-1787.	1.6	39
49	PHANGS – ALMA Data Processing and Pipeline. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 19.	3.0	79
50	Maximum accretion rate of supermassive stars. <i>Astronomy and Astrophysics</i> , 2021, 652, L7.	2.1	9
51	Protoplanetary Disk Birth in Massive Star-forming Clumps: The Essential Role of the Magnetic Field. <i>Astrophysical Journal Letters</i> , 2021, 917, L10.	3.0	28
52	Turbulence and its connection to episodic accretion in binary YSOs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 6061-6077.	1.6	3
53	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
54	Are hierarchically formed embedded star clusters surviving gas expulsion depending on their initial conditions?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5410-5424.	1.6	3

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55	The CARMA-NRO Orion Survey: Filament Formation via Collision-induced Magnetic Reconnectionâ€”the Stick in Orion A. <i>Astrophysical Journal</i> , 2021, 906, 80.	1.6	6
56	PHANGSâ€™ HST: star cluster spectral energy distribution fitting with <i>cigale</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1366-1385.	1.6	33
57	Stellar initial mass function over a range of redshifts. <i>Astronomische Nachrichten</i> , 2021, 342, 157-163.	0.6	2
58	Giant molecular cloud catalogues for PHANGS-ALMA: methods and initial results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1218-1245.	1.6	75
59	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
60	Comparing the pre-SNe feedback and environmental pressures for 6000 H $\alpha$ regions across 19 nearby spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5362-5389.	1.6	27
61	Bringing faint active galactic nuclei (AGNs) to light: a view from large-scale cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4816-4843.	1.6	8
62	Pre-supernova feedback mechanisms drive the destruction of molecular clouds in nearby star-forming disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 272-288.	1.6	65
63	A Kiloparsec-scale Molecular Wave in the Inner Galaxy: Feather of the Milky Way?. <i>Astrophysical Journal Letters</i> , 2021, 921, L42.	3.0	9
64	Globular Clusters and Streaming Velocities: Testing the New Formation Channel in High-resolution Cosmological Simulations. <i>Astrophysical Journal</i> , 2021, 922, 193.	1.6	8
65	PHANGSâ€™ ALMA: Arcsecond CO(2â€”1) Imaging of Nearby Star-forming Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 43.	3.0	161
66	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
67	Dynamically Driven Inflow onto the Galactic Center and its Effect upon Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 922, 79.	1.6	16
68	PHANGS-HST: new methods for star cluster identification in nearby galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4094-4127.	1.6	25
69	The mean free path approximation and stellar collisions in star clusters: numerical exploration of the analytic rates and the role of perturbations on binary star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3724-3736.	1.6	5
70	When H $\alpha$ regions are complicated: considering perturbations from winds, radiation pressure, and other effects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 915-933.	1.6	26
71	The Cloud Factory I: Generating resolved filamentary molecular clouds from galactic-scale forces. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1594-1613.	1.6	67
72	Detecting strongly lensed supernovae at $z \sim 1/4$ with LSST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2447-2459.	1.6	14

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73	Measuring the mixing scale of the ISM within nearby spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 193-209.	1.6	44
74	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
75	Jeans modelling of the Milky Way's nuclear stellar disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 7-24.	1.6	22
76	Shape and spin of minihaloes II. The effect of streaming velocities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4839-4852.	1.6	7
77	From parallel to perpendicular On the orientation of magnetic fields in molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4196-4212.	1.6	45
78	A systematic study of radiative torque grain alignment in the diffuse interstellar medium. <i>Astronomy and Astrophysics</i> , 2020, 640, A118.	2.1	14
79	SPRAI-II: multifrequency radiative transfer for variable gas densities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3594-3609.	1.6	6
80	Simulations of the Milky Way's Central Molecular Zone II. Star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5024-5040.	1.6	48
81	Physical Processes in Star Formation. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	43
82	The Molecular Cloud Lifecycle. <i>Space Science Reviews</i> , 2020, 216, 50.	3.7	77
83	From Diffuse Gas to Dense Molecular Cloud Cores. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	38
84	Do fragmentation and accretion affect the stellar initial mass function?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1647-1657.	1.6	5
85	WARPFIELD-EMP: The self-consistent prediction of emission lines from evolving H <sub>ii</sub> regions in dense molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 339-363.	1.6	29
86	Ubiquitous velocity fluctuations throughout the molecular interstellar medium. <i>Nature Astronomy</i> , 2020, 4, 1064-1071.	4.2	38
87	Formation sites of Population III star formation: The effects of different levels of rotation and turbulence on the fragmentation behaviour of primordial gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1871-1893.	1.6	52
88	Statistical mass function of prestellar cores from the density distribution of their natal clouds. <i>Astronomy and Astrophysics</i> , 2020, 635, A88.	2.1	0
89	Simulations of the star-forming molecular gas in an interacting M51-like galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 2973-2995.	1.6	51
90	Formation of the First Stars and Black Holes. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	39

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91	Formation of SMBH seeds in Population III star clusters through collisions: the importance of mass loss. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2352-2362.	1.6	21
92	The HI/OH/Recombination line survey of the inner Milky Way (THOR): data release 2 and H&I overview. <i>Astronomy and Astrophysics</i> , 2020, 634, A83.	2.1	52
93	Synthetic observations of spiral arm tracers of a simulated Milky Way analog. <i>Astronomy and Astrophysics</i> , 2020, 642, A201.	2.1	9
94	The effects of a background potential in star cluster evolution. <i>Astronomy and Astrophysics</i> , 2020, 639, A92.	2.1	13
95	Mono-enriched stars and Galactic chemical evolution. <i>Astronomy and Astrophysics</i> , 2020, 643, A49.	2.1	15
96	The history of dynamics and stellar feedback revealed by the H&I filamentary structure in the disk of the Milky Way. <i>Astronomy and Astrophysics</i> , 2020, 642, A163.	2.1	29
97	Stellar parameter determination from photometry using invertible neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5447-5485.	1.6	16
98	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
99	Magnetic fields in star-forming systems – II: Examining dust polarization, the Zeeman effect, and the Faraday rotation measure as magnetic field tracers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 153-176.	1.6	8
100	The Cloud Factory II: gravoturbulent kinematics of resolved molecular clouds in a galactic potential. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5268-5296.	1.6	9
101	Time-variable Radio Recombination Line Emission in W49A. <i>Astronomical Journal</i> , 2020, 160, 234.	1.9	7
102	A SOFIA Survey of [C ii] in the Galaxy M51. II. [C ii] and CO Kinematics across the Spiral Arms. <i>Astrophysical Journal</i> , 2020, 900, 132.	1.6	6
103	Modeling of the Effects of Stellar Feedback during Star Cluster Formation Using a Hybrid Gas and N-Body Method. <i>Astrophysical Journal</i> , 2020, 904, 192.	1.6	26
104	Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. <i>Astrophysical Journal Letters</i> , 2020, 901, L8.	3.0	85
105	Atomic and molecular gas properties during cloud formation. <i>Astronomy and Astrophysics</i> , 2020, 642, A68.	2.1	10
106	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
107	The relation between the true and observed fractal dimensions of turbulent clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2070-2081.	1.6	13
108	On the extraction of the power-law parts of probability density functions in star-forming clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 788-801.	1.6	15

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109	SIGNALS: I. Survey description. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5530-5546.	1.6	30
110	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
111	The CARMA-NRO Orion Survey: Core Emergence and Kinematics in the Orion A Cloud. Astrophysical Journal, 2019, 882, 45.	1.6	6
112	The relation between the turbulent Mach number and observed fractal dimensions of turbulent clouds. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2493-2502.	1.6	20
113	<sc>warpfield</sc>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
114	The CARMA-NRO Orion Survey. Astronomy and Astrophysics, 2019, 623, A142.	2.1	45
115	Observational constraints on the survival of pristine stars. Monthly Notices of the Royal Astronomical Society, 2019, 487, 486-490.	1.6	28
116	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
117	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
118	Feedback in W49A diagnosed with radio recombination lines and models. Astronomy and Astrophysics, 2019, 622, A48.	2.1	20
119	Histogram of oriented gradients: a technique for the study of molecular cloud formation. Astronomy and Astrophysics, 2019, 622, A166.	2.1	30
120	Strong Excess Faraday Rotation on the Inside of the Sagittarius Spiral Arm. Astrophysical Journal Letters, 2019, 887, L7.	3.0	24
121	Maximally accreting supermassive stars: a fundamental limit imposed by hydrostatic equilibrium. Astronomy and Astrophysics, 2019, 632, L2.	2.1	23
122	Fingerprint of the first stars: multi-enriched extremely metal-poor stars in the TOPoS survey. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1204-1210.	1.6	24
123	Formation of the first stars. , 2019, , 67-97.		19
124	Radiative Transfer with POLARIS. II. Modeling of Synthetic Galactic Synchrotron Observations. Astrophysical Journal, 2019, 885, 15.	1.6	20
125	Relations between Molecular Cloud Structure Sizes and Line Widths in the Large Magellanic Cloud. Astrophysical Journal, 2019, 885, 50.	1.6	24
126	Collisional N-body Dynamics Coupled to Self-gravitating Magnetohydrodynamics Reveals Dynamical Binary Formation. Astrophysical Journal, 2019, 887, 62.	1.6	27



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127	Spatially associated clump populations in Rosette from CO and dust maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2215-2235.	1.6	10
128	Simulating the UV escape fractions from molecular cloud populations in star-forming dwarf and spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3121-3134.	1.6	24
129	A theoretical explanation for the Central Molecular Zone asymmetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2383-2402.	1.6	64
130	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
131	On the Rotation of Supermassive Stars. <i>Astrophysical Journal Letters</i> , 2018, 853, L3.	3.0	40
132	Formation of massive seed black holes via collisions and accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 366-380.	1.6	59
133	The evolution of supermassive Population III stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2757-2773.	1.6	98
134	Flux Density Variations at 3.6 cm in the Massive Star-forming Region W49A. <i>Astrophysical Journal Letters</i> , 2018, 863, L9.	3.0	4
135	A dynamical mechanism for the origin of nuclear rings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2-19.	1.6	38
136	The SILCC project – V. The impact of magnetic fields on the chemistry and the formation of molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3511-3540.	1.6	42
137	Magnetic fields in star-forming systems (I): idealized synthetic signatures of dust polarization and Zeeman splitting in filaments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2507-2522.	1.6	21
138	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
139	Shape and spin of minihaloes: from large scales to the centres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3266-3277.	1.6	6
140	On the indeterministic nature of star formation on the cloud scale. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2548-2569.	1.6	46
141	Predicting the locations of possible long-lived low-mass first stars: importance of satellite dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 5308-5323.	1.6	47
142	The CARMA-NRO Orion Survey. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 25.	3.0	64
143	Collisions in primordial star clusters. <i>Astronomy and Astrophysics</i> , 2018, 614, A14.	2.1	55
144	Spectral shifting strongly constrains molecular cloud disruption by radiation pressure on dust. <i>Astronomy and Astrophysics</i> , 2018, 611, A70.	2.1	25

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145	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
146	Radio continuum emission in the northern Galactic plane: Sources and spectral indices from the THOR survey. Astronomy and Astrophysics, 2018, 619, A124.	2.1	32
147	The turbulent life of dust grains in the supernova-driven, multiphase interstellar medium. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4322-4342.	1.6	13
148	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
149	Massive star formation by accretion. Astronomy and Astrophysics, 2017, 602, A17.	2.1	16
150	ULTRAVIOLET ESCAPE FRACTIONS FROM GIANT MOLECULAR CLOUDS DURING EARLY CLUSTER FORMATION. Astrophysical Journal, 2017, 834, 40.	1.6	16
151	On the Maximum Mass of Accreting Primordial Supermassive Stars. Astrophysical Journal Letters, 2017, 842, L6.	3.0	89
152	Galactic supernova remnant candidates discovered by THOR. Astronomy and Astrophysics, 2017, 605, A58.	2.1	63
153	Nuclear spirals in the inner Milky Way. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2251-2262.	1.6	40
154	How the First Stars Regulated Star Formation. II. Enrichment by Nearby Supernovae. Astrophysical Journal, 2017, 844, 111.	1.6	25
155	The origin of dust polarization in molecular outflows. Astronomy and Astrophysics, 2017, 603, A71.	2.1	24
156	Feeding versus Falling: The Growth and Collapse of Molecular Clouds in a Turbulent Interstellar Medium. Astrophysical Journal, 2017, 850, 62.	1.6	32
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