

Ashley Barnes

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,017
citations

218677

26
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	PHANGSâ€“MUSE: The H α -II region luminosity function of local star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2022, 658, A188.	5.1	34
2	Negative and positive feedback from a supernova remnant with SHREC: a detailed study of the shocked gas in IC443. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 953-963.	4.4	8
3	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.	4.4	15
4	The PHANGS-MUSE survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A191.	5.1	96
5	A CO isotopologue Line Atlas within the Whirlpool galaxy Survey (CLAWS). <i>Astronomy and Astrophysics</i> , 2022, 662, A89.	5.1	9
6	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.	7.7	58
7	A tale of two DIGs: The relative role of H α -II regions and low-mass hot evolved stars in powering the diffuse ionised gas (DIG) in PHANGSâ€“MUSE galaxies. <i>Astronomy and Astrophysics</i> , 2022, 659, A26.	5.1	51
8	Molecular Gas Properties and CO-to-H ₂ Conversion Factors in the Central Kiloparsec of NGC 3351. <i>Astrophysical Journal</i> , 2022, 925, 72.	4.5	20
9	H α morphologies of star clusters in 16 LEGUS galaxies: Constraints on H α region evolution time-scales. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1294-1316.	4.4	17
10	The Gasâ€“Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H α Emission for 49 PHANGS Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 9.	4.5	19
11	Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. <i>Astrophysical Journal</i> , 2022, 927, 149.	4.5	46
12	Astrochemical modelling of infrared dark clouds. <i>Astronomy and Astrophysics</i> , 2022, 662, A39.	5.1	5
13	Linking stellar populations to H II regions across nearby galaxies. <i>Astronomy and Astrophysics</i> , 2022, 662, L6.	5.1	11
14	The initial conditions for young massive cluster formation in the Galactic Centre: convergence of large-scale gas flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 578-595.	4.4	5
15	Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. <i>Astronomical Journal</i> , 2022, 164, 43.	4.7	31
16	Star formation in â€“the Brickâ€“: ALMA reveals an active protocluster in the Galactic centre cloud G0.253+0.016. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 77-95.	4.4	19
17	On the duration of the embedded phase of star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 487-509.	4.4	61
18	ALMAâ€“IRDC: dense gas mass distribution from cloud to core scales. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4601-4626.	4.4	16

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19	ALMAâ€“IRDC â€“ II. First high-angular resolution measurements of the $^{14}\text{N}/^{15}\text{N}$ ratio in a large sample of infrared-dark cloud cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4320-4335.	4.4	6
20	New constraints on the $^{12}\text{CO}(2\hat{=}1)/(1\hat{=}0)$ line ratio across nearby disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3221-3245.	4.4	71
21	The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus $3.6\hat{=}4\text{m}$ Brightness Contrasts in Nearby Galaxies. <i>Astrophysical Journal</i> , 2021, 913, 113.	4.5	10
22	Dense molecular gas properties on $100\hat{=}pc$ scales across the disc of NGCâˆ“3627. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 963-988.	4.4	24
23	PHANGSâ€“ALMA Data Processing and Pipeline. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 19.	7.7	79
24	Frequency and nature of central molecular outflows in nearby star-forming disk galaxies. <i>Astronomy and Astrophysics</i> , 2021, 653, A172.	5.1	19
25	Comparing the pre-SNe feedback and environmental pressures for 6000 $\text{H}\hat{=}ii</scp>$ regions across 19 nearby spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5362-5389.	4.4	27
26	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.	4.4	65
27	PHANGSâ€“ALMA: Arcsecond $\text{CO}(2\hat{=}1)$ Imaging of Nearby Star-forming Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 43.	7.7	161
28	Bright, relatively isolated star clusters in PHANGSâ€“ <i>HST</i> 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.	4.4	16
29	A wind-blown bubble in the Central Molecular Zone cloud G0.253+0.016. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4758-4774.	4.4	7
30	LEGO â€“ II. A $3\hat{=}mm$ molecular line study covering $100\hat{=}pc$ 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.	4.4	30
31	Which feedback mechanisms dominate in the high-pressure environment of the central molecular zone?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4906-4923.	4.4	47
32	SiO emission as a probe of cloudâ€“cloud collisions in infrared dark clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1666-1681.	4.4	13
33	6.7 GHz CH_3OH Absorption toward the N3 Galactic Center Point Source. <i>Astrophysical Journal</i> , 2020, 889, 174.	4.5	0
34	SOFIA/FORCAST Galactic Center Legacy Survey: Overview. <i>Astrophysical Journal</i> , 2020, 894, 55.	4.5	8
35	SOFIA/FIFI-LS Full-disk [C ii] Mapping and CO-dark Molecular Gas across the Nearby Spiral Galaxy NGC 6946. <i>Astrophysical Journal</i> , 2020, 903, 30.	4.5	15
36	CMZoom: Survey Overview and First Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 35.	7.7	27

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37	CMZoom. II. Catalog of Compact Submillimeter Dust Continuum Sources in the Milky Way's Central Molecular Zone. <i>Astrophysical Journal, Supplement Series</i> , 2020, 251, 14.	7.7	16
38	A Census of Early-phase High-mass Star Formation in the Central Molecular Zone. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 35.	7.7	24
39	The geometry of the gas surrounding the Central Molecular Zone: on the origin of localized molecular clouds with extreme velocity dispersions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4663-4673.	4.4	28
40	Interstellar Plunging Waves: ALMA Resolves the Physical Structure of Nonstationary MHD Shocks. <i>Astrophysical Journal Letters</i> , 2019, 881, L42.	8.3	14
41	Multicomponent Kinematics in a Massive Filamentary Infrared Dark Cloud. <i>Astrophysical Journal</i> , 2019, 872, 30.	4.5	14
42	Young massive star cluster formation in the Galactic Centre is driven by global gravitational collapse of high-mass molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 283-303.	4.4	29
43	“The Brick” is not a brick: a comprehensive study of the structure and dynamics of the central molecular zone cloud G0.253+0.016. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2457-2485.	4.4	57
44	Mass inflow rate into the Central Molecular Zone: observational determination and evidence of episodic accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1213-1219.	4.4	50
45	The dynamical evolution of molecular clouds near the Galactic Centre – II. Spatial structure and kinematics of simulated clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5734-5754.	4.4	68
46	Distributed Star Formation throughout the Galactic Center Cloud Sgr B2. <i>Astrophysical Journal</i> , 2018, 853, 171.	4.5	74
47	Similar complex kinematics within two massive, filamentary infrared dark clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 5268-5289.	4.4	16
48	Subsonic islands within a high-mass star-forming infrared dark cloud. <i>Astronomy and Astrophysics</i> , 2018, 611, L3.	5.1	20
49	Unveiling the early-stage anatomy of a protocluster hub with ALMA. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L31-L35.	3.3	40
50	H ₂ O Southern Galactic Plane Survey (HOPS): Paper III – properties of dense molecular gas across the inner Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1462-1490.	4.4	30
51	¹⁵ N fractionation in infrared-dark cloud cores. <i>Astronomy and Astrophysics</i> , 2017, 603, A22.	5.1	21
52	Star formation rates and efficiencies in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2263-2285.	4.4	129
53	Investigating the structure and fragmentation of a highly filamentary IRDC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 146-169.	4.4	47
54	Widespread deuteration across the IRDC G035.39~00.33. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1990-1998.	4.4	24

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55	Molecular gas kinematics within the central 250 pc of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2675-2702.	4.4	154
56	Widespread SiO and CH ₃ OH Emission in Filamentary Infrared-Dark Clouds.... Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	16