

Alex Pettitt

List of Publications by Year in descending order

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33
papers

1,006
citations

516710

16
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>Phantom</scp>: A Smoothed Particle Hydrodynamics and Magnetohydrodynamics Code for Astrophysics. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	267
2	SEDIGISM: Structure, excitation, and dynamics of the inner Galactic interstellar medium. Astronomy and Astrophysics, 2017, 601, A124.	5.1	79
3	Age, size, and position of H&#iil regions in the Galaxy. Astronomy and Astrophysics, 2014, 568, A4.	5.1	57
4	The morphology of the Milky Way â€“ I. Reconstructing CO maps from simulations in fixed potentials. Monthly Notices of the Royal Astronomical Society, 2014, 444, 919-941.	4.4	54
5	The SEDIGISM survey: First Data Release and overview of the Galactic structure. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3064-3082.	4.4	53
6	Gas and stellar spiral structures in tidally perturbed disc galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3990-4007.	4.4	43
7	A search for methane in the atmosphere of GJ 1214b via GTC narrow-band transmission spectrophotometryâˆ… Monthly Notices of the Royal Astronomical Society, 2014, 438, 2395-2405.	4.4	42
8	The morphology of the Milky Way â€“ II. Reconstructing CO maps from disc galaxies with live stellar distributions. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3911-3926.	4.4	42
9	The SEDIGISM survey: molecular clouds in the inner Galaxy. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3027-3049.	4.4	35
10	Bars and spirals in tidal interactions with an ensemble of galaxy mass models. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5645-5671.	4.4	34
11	Star formation and ISM morphology in tidally induced spiral structures. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4189-4204.	4.4	33
12	Simulations of the flocculent spiral M33: what drives the spiral structure?. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3793-3808.	4.4	32
13	How do different spiral arm models impact the ISM and GMC population?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1159-1174.	4.4	22
14	SEDIGISM-ATLASCAL: dense gas fraction and star formation efficiency across the Galactic disc. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3050-3063.	4.4	21
15	Magnetic field evolution and reversals in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4482-4495.	4.4	18
16	The formation of massive stellar clusters in converging galactic flows with photoionization. Monthly Notices of the Royal Astronomical Society, 2021, 509, 954-973.	4.4	18
17	Testing hydrodynamics schemes in galaxy disc simulations. Monthly Notices of the Royal Astronomical Society, 2016, 460, 4382-4396.	4.4	17
18	Molecular Gas and Star Formation Properties in Early Stage Mergers: SMA CO(2-1) Observations of the LIRGs NGC 3110 and NGC 232. Astrophysical Journal, 2018, 866, 77.	4.5	16

#	ARTICLE	IF	CITATIONS
19	Comparing the properties of GMCs in M33 from simulations and observations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4997-5009.	4.4	16
20	Young stars as tracers of a barred-spiral Milky Way. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	15
21	The changing GMC population in galaxy interactions. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3356-3375.	4.4	14
22	The power of coordinate transformations in dynamical interpretations of Galactic structure. Monthly Notices of the Royal Astronomical Society, 2020, 497, 818-828.	4.4	14
23	The impact of galactic disc environment on star-forming clouds. Monthly Notices of the Royal Astronomical Society, 2018, 475, 27-42.	4.4	13
24	Massive core/star formation triggered by cloud-cloud collision: Effect of magnetic field. Publication of the Astronomical Society of Japan, 2021, 73, S385-S404.	2.5	13
25	The SEDIGISM survey: The influence of spiral arms on the molecular gas distribution of the inner Milky Way. Astronomy and Astrophysics, 2022, 658, A54.	5.1	9
26	Birth sites of young stellar associations and recent star formation in a flocculent corrugated disc. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5623-5640.	4.4	7
27	A Tale of Two Clump Masses: A new way to study clump formation in simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6
28	The anatomy of a star-forming galaxy II: FUV heating via dust. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2028-2041.	4.4	6
29	Differences in star formation activity between tidally triggered and isolated bars: a case study of NGC 4303 and NGC 3627. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3899-3916.	4.4	6
30	Multiwavelength and Multi-CO View of the Minor Merger Driven Star Formation in the Nearby LIRG NGC 3110. Astrophysical Journal, 2022, 929, 100.	4.5	2
31	Using synthetic emission maps to constrain the structure of the Milky Way. Proceedings of the International Astronomical Union, 2013, 9, 246-252.	0.0	1
32	CO Multi-line Imaging of Nearby Galaxies (COMING). VII. Fourier decomposition of molecular gas velocity fields and bar pattern speed. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	1
33	Galactic spiral generation in tidal encounters. Proceedings of the International Astronomical Union, 2015, 11, .	0.0	0