

# Alex Pettitt

## List of Publications by Year in descending order

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Version: 2024-02-01

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	The SEDIGISM survey: The influence of spiral arms on the molecular gas distribution of the inner Milky Way. <i>Astronomy and Astrophysics</i> , 2022, 658, A54.	5.1	9
2	Differences in star formation activity between tidally triggered and isolated bars: a case study of NGC 4303 and NGC 3627. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3899-3916.	4.4	6
3	Multiwavelength and Multi-CO View of the Minor Merger Driven Star Formation in the Nearby LIRG NGC 3110. <i>Astrophysical Journal</i> , 2022, 929, 100.	4.5	2
4	Massive core/star formation triggered by cloud-cloud collision: Effect of magnetic field. <i>Publication of the Astronomical Society of Japan</i> , 2021, 73, S385-S404.	2.5	13
5	The formation of massive stellar clusters in converging galactic flows with photoionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 954-973.	4.4	18
6	The power of coordinate transformations in dynamical interpretations of Galactic structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 818-828.	4.4	14
7	The SEDIGISM survey: First Data Release and overview of the Galactic structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3064-3082.	4.4	53
8	The SEDIGISM survey: molecular clouds in the inner Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3027-3049.	4.4	35
9	How do different spiral arm models impact the ISM and GMC population?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1159-1174.	4.4	22
10	SEDIGISM-ATLASGAL: dense gas fraction and star formation efficiency across the Galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3050-3063.	4.4	21
11	The anatomy of a star-forming galaxy II: FUV heating via dust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2028-2041.	4.4	6
12	Birth sites of young stellar associations and recent star formation in a flocculent corrugated disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5623-5640.	4.4	7
13	Comparing the properties of GMCs in M33 from simulations and observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4997-5009.	4.4	16
14	CO Multi-line Imaging of Nearby Galaxies (COMING). VII. Fourier decomposition of molecular gas velocity fields and bar pattern speed. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	1
15	The changing GMC population in galaxy interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3356-3375.	4.4	14
16	Molecular Gas and Star Formation Properties in Early Stage Mergers: SMA CO(2-1) Observations of the LIRGs NGC 3110 and NGC 232. <i>Astrophysical Journal</i> , 2018, 866, 77.	4.5	16
17	<sc>Phantom</sc>: A Smoothed Particle Hydrodynamics and Magnetohydrodynamics Code for Astrophysics. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, .	3.4	267
18	Simulations of the flocculent spiral M33: what drives the spiral structure?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3793-3808.	4.4	32

#	ARTICLE	IF	CITATIONS
19	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
20	The impact of galactic disc environment on star-forming clouds. Monthly Notices of the Royal Astronomical Society, 2018, 475, 27-42.	4.4	13
21	SEDIGISM: Structure, excitation, and dynamics of the inner Galactic interstellar medium. Astronomy and Astrophysics, 2017, 601, A124.	5.1	79
22	Star formation and ISM morphology in tidally induced spiral structures. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4189-4204.	4.4	33
23	Testing hydrodynamics schemes in galaxy disc simulations. Monthly Notices of the Royal Astronomical Society, 2016, 460, 4382-4396.	4.4	17
24	Magnetic field evolution and reversals in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4482-4495.	4.4	18
25	Gas and stellar spiral structures in tidally perturbed disc galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3990-4007.	4.4	43
26	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
27	Galactic spiral generation in tidal encounters. Proceedings of the International Astronomical Union, 2015, 11, .	0.0	0
28	Age, size, and position of H $\alpha$ regions in the Galaxy. Astronomy and Astrophysics, 2014, 568, A4.	5.1	57
29	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
30	A search for methane in the atmosphere of CJ 1214b via GTC narrow-band transmission spectrophotometryâ€¦ Monthly Notices of the Royal Astronomical Society, 2014, 438, 2395-2405.	4.4	42
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	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
33	Young stars as tracers of a barred-spiral Milky Way. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	15