

# Katherine Alatalo

## List of Publications by Year in descending order

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93  
papers

9,492  
citations

57758

44  
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56724

83  
g-index

93  
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93  
docs citations

93  
times ranked

5990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Galaxy Evolution Probe. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.8	12
2	Are All Post-starbursts Mergers? HST Reveals Hidden Disturbances in the Majority of PSBs. <i>Astrophysical Journal</i> , 2021, 919, 134.	4.5	28
3	Spinning Bar and a Star-formation Inefficient Repertoire: Turbulence in Hickson Compact Group NGC 7674. <i>Astrophysical Journal</i> , 2020, 893, 26.	4.5	4
4	The Morphology–Density Relationship in $1\leq z\leq 2$ Clusters. <i>Astrophysical Journal</i> , 2020, 899, 85.	4.5	20
5	A Break in Spiral Galaxy Scaling Relations at the Upper Limit of Galaxy Mass. <i>Astrophysical Journal Letters</i> , 2019, 884, L11.	8.3	26
6	The hidden heart of the luminous infrared galaxy IC 860. <i>Astronomy and Astrophysics</i> , 2019, 627, A147.	5.1	36
7	Evidence for Shock-heated Gas in the Taffy Galaxies and Bridge from Optical Emission-line IFU Spectroscopy. <i>Astrophysical Journal</i> , 2019, 878, 161.	4.5	8
8	Shocked Poststarburst Galaxy Survey. III. The Ultraviolet Properties of SPOGs. <i>Astrophysical Journal</i> , 2018, 863, 28.	4.5	7
9	Jet-related Excitation of the [C ii] Emission in the Active Galaxy NGC 4258 with SOFIA. <i>Astrophysical Journal</i> , 2018, 869, 61.	4.5	13
10	Revolutionizing Our Understanding of AGN Feedback and its Importance to Galaxy Evolution in the Era of the Next Generation Very Large Array. <i>Astrophysical Journal</i> , 2018, 859, 23.	4.5	27
11	Herschel Spectroscopy of the Taffy Galaxies (UGC 12914/12915 = VV 254): Enhanced [C ii] Emission in the Collisionally Formed Bridge. <i>Astrophysical Journal</i> , 2018, 855, 141.	4.5	9
12	Light curves of the neutron star merger GW170817/SSS17a: Implications for r-process nucleosynthesis. <i>Science</i> , 2017, 358, 1570-1574.	12.6	517
13	Early spectra of the gravitational wave source GW170817: Evolution of a neutron star merger. <i>Science</i> , 2017, 358, 1574-1578.	12.6	240
14	Multiwavelength Characterization of an ACT-selected, Lensed Dusty Star-forming Galaxy at $z = 2.64$ . <i>Astrophysical Journal</i> , 2017, 844, 110.	4.5	3
15	A Multi-wavelength Study of the Turbulent Central Engine of the Low-mass AGN Hosted by NGC 404. <i>Astrophysical Journal</i> , 2017, 845, 50.	4.5	29
16	Welcome to the Twilight Zone: The Mid-infrared Properties of Post-starburst Galaxies. <i>Astrophysical Journal</i> , 2017, 843, 9.	4.5	18
17	Star formation in nearby early-type galaxies: the radio continuum perspective. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 1029-1064.	4.4	27
18	Powerful $H_{2}$ Line Cooling in Stephan's Quintet. II. Group-wide Gas and Shock Modeling of the Warm $H_{2}$ and a Comparison with [C ii] $157.7\ \mu\text{m}$ Emission and Kinematics. <i>Astrophysical Journal</i> , 2017, 836, 76.	4.5	37

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19	The role of molecular gas in galaxy transition in compact groups. <i>Astronomy and Astrophysics</i> , 2017, 607, A110.	5.1	16
20	STAR FORMATION SUPPRESSION DUE TO JET FEEDBACK IN RADIO GALAXIES WITH SHOCKED WARM MOLECULAR GAS. <i>Astrophysical Journal</i> , 2016, 826, 29.	4.5	34
21	AFTER THE INTERACTION: AN EFFICIENTLY STAR-FORMING MOLECULAR DISK IN NGC 5195. <i>Astrophysical Journal</i> , 2016, 830, 137.	4.5	10
22	SHOCKED POSTSTARBURST GALAXY SURVEY. I. CANDIDATE POST-STARBURST GALAXIES WITH EMISSION LINE RATIOS CONSISTENT WITH SHOCKS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 38.	7.7	70
23	The atlas <sup>3D</sup> Project â€“ XXXI. Nuclear radio emission in nearby early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2221-2268.	4.4	53
24	SHOCKED POSTSTARBURST GALAXY SURVEY. II. THE MOLECULAR GAS CONTENT AND PROPERTIES OF A SUBSET OF SPOGs. <i>Astrophysical Journal</i> , 2016, 827, 106.	4.5	50
25	HIERARCHICAL FORMATION IN ACTION: CHARACTERIZING ACCELERATED GALAXY EVOLUTION IN COMPACT GROUPS USING WHOLE-SKY WISE DATA. <i>Astrophysical Journal</i> , 2016, 821, 113.	4.5	11
26	Studying the evolution of galaxies in compact groups over the past 3ÂGyr â€“ II. The importance of environment in the suppression of star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 957-970.	4.4	17
27	ESCAPE, ACCRETION, OR STAR FORMATION? THE COMPETING DEPLETERS OF GAS IN THE QUASAR MARKARIAN 231. <i>Astrophysical Journal Letters</i> , 2015, 801, L17.	8.3	27
28	X-RAY EMISSION FROM THE TAFFY (VV254) GALAXIES AND BRIDGE. <i>Astrophysical Journal</i> , 2015, 812, 118.	4.5	11
29	STAR FORMATION SUPPRESSION IN COMPACT GROUP GALAXIES: A NEW PATH TO QUENCHING?. <i>Astrophysical Journal</i> , 2015, 812, 117.	4.5	36
30	SUPPRESSION OF STAR FORMATION IN NGC 1266. <i>Astrophysical Journal</i> , 2015, 798, 31.	4.5	111
31	Evidence of boosted <sup>13</sup> CO/ <sup>12</sup> CO ratio in early-type galaxies in dense environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3874-3885.	4.4	27
32	The ATLAS3D Project â€“ XXX. Star formation histories and stellar population scaling relations of early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3484-3513.	4.4	326
33	Observations of hydroxyl in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 392-399.	4.4	3
34	The ATLAS3D project â€“ XXIX. The new look of early-type galaxies and surrounding fields disclosed by extremely deep optical images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 120-143.	4.4	243
35	CATCHING QUENCHING GALAXIES: THE NATURE OF THE <i>WISE</i> INFRARED TRANSITION ZONE. <i>Astrophysical Journal Letters</i> , 2014, 794, L13.	8.3	45
36	The ATLAS3D project â€“ XXVI. H <sub>2</sub> discs in real and simulated fast and slow rotators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3388-3407.	4.4	58

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37	The ATLAS3D project â€“ XXVII. Cold gas and the colours and ages of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3408-3426.	4.4	92
38	The ATLAS 3D project â€“ XXIV. The intrinsic shape distribution of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3340-3356.	4.4	100
39	STRONG FAR-INFRARED COOLING LINES, PECULIAR CO KINEMATICS, AND POSSIBLE STAR-FORMATION SUPPRESSION IN HICKSON COMPACT GROUP 57. Astrophysical Journal, 2014, 795, 159.	4.5	24
40	ACCRETION-INHIBITED STAR FORMATION IN THE WARM MOLECULAR DISK OF THE GREEN-VALLEY ELLIPTICAL GALAXY NGCâ€“3226?. Astrophysical Journal, 2014, 797, 117.	4.5	13
41	CONNECTION BETWEEN DYNAMICALLY DERIVED INITIAL MASS FUNCTION NORMALIZATION AND STELLAR POPULATION PARAMETERS. Astrophysical Journal Letters, 2014, 792, L37.	8.3	40
42	NGC 1266 AS A LOCAL CANDIDATE FOR RAPID CESSATION OF STAR FORMATION. Astrophysical Journal, 2014, 780, 186.	4.5	31
43	The ATLAS3D Project â€“ XXVIII. Dynamically driven star formation suppression in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3427-3445.	4.4	150
44	CO in Hickson compact group galaxies with enhanced warm H<sub>2</sub> emission: Evidence for galaxy evolution?. Astronomy and Astrophysics, 2014, 570, A24.	5.1	11
45	The ATLAS3D project â€“ XXV. Two-dimensional kinematic analysis of simulated galaxies and the cosmological origin of fast and slow rotators. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3357-3387.	4.4	257
46	A Herschel and CARMA view of CO and [C ii] in Hickson Compact groups. Proceedings of the International Astronomical Union, 2014, 10, 178-181.	0.0	0
47	<i>Herschel</i> observations of Hickson compact groups of galaxies: Unveiling the properties of cold dust. Astronomy and Astrophysics, 2014, 565, A25.	5.1	30
48	The ATLAS3D project â€“ XV. Benchmark for early-type galaxies scaling relations from 260 dynamical models: mass-to-light ratio, dark matter, Fundamental Plane and Mass Plane. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1709-1741.	4.4	532
49	The ATLAS3D project â€“ XXII. Low-efficiency star formation in early-type galaxies: hydrodynamic models and observations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1914-1927.	4.4	94
50	The ATLAS3D project â€“ XIX. The hot gas content of early-type galaxies: fast versus slow rotators. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1845-1861.	4.4	50
51	The ATLAS3D Project â€“ XXIII. Angular momentum and nuclear surface brightness profiles. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2812-2839.	4.4	60
52	Discovery of a giant Hâ€“ tail in the galaxy group HCG 44. Monthly Notices of the Royal Astronomical Society, 2013, 428, 370-380.	4.4	53
53	The ATLAS3D project â€“ XVII. Linking photometric and kinematic signatures of stellar discs in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1768-1795.	4.4	127
54	The ATLAS3D project â€“ XX. Massâ€“size and massâ€“if distributions of early-type galaxies: bulge fraction drives kinematics, mass-to-light ratio, molecular gas fraction and stellar initial mass function. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1862-1893.	4.4	496

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55	The ATLAS3D Project â€“ XIV. The extent and kinematics of the molecular gas in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 429, 534-555.	4.4	175
56	The ATLAS3D project â€“ XVI. Physical parameters and spectral line energy distributions of the molecular gas in gas-rich early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1742-1767.	4.4	17
57	The ATLAS3D project â€“ XVIII. CARMA CO imaging survey of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1796-1844.	4.4	121
58	The ATLAS3D project â€“ XXI. Correlations between gradients of local escape velocity and stellar populations in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1894-1913.	4.4	73
59	DETECTION OF A HIGH BRIGHTNESS TEMPERATURE RADIO CORE IN THE ACTIVE-GALACTIC-NUCLEUS-DRIVEN MOLECULAR OUTFLOW CANDIDATE NGC 1266. Astrophysical Journal, 2013, 779, 173.	4.5	46
60	Spatially resolved molecular gas in early-type galaxies. Proceedings of the International Astronomical Union, 2012, 10, 122-123.	0.0	0
61	AGN Feedback Driven Molecular Outflow in NGC 1266. Proceedings of the International Astronomical Union, 2012, 8, 175-176.	0.0	0
62	Revealing the origin of the cold ISM in massive early-type galaxies. Proceedings of the International Astronomical Union, 2012, 8, 324-327.	0.0	0
63	Quenching of Star Formation in Molecular Outflow Host NGC 1266. Proceedings of the International Astronomical Union, 2012, 8, 371-371.	0.0	0
64	Stellar discs in massive galaxies. Proceedings of the International Astronomical Union, 2012, 8, 314-314.	0.0	0
65	Probing the mass assembly of massive nearby galaxies with deep imaging. Proceedings of the International Astronomical Union, 2012, 8, 358-361.	0.0	3
66	Gemini GMOS and WHT SAURON integral-field spectrograph observations of the AGN-driven outflow in NGC 1266. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1574-1590.	4.4	48
67	Systematic variation of the stellar initial mass function in early-type galaxies. Nature, 2012, 484, 485-488.	27.8	496
68	The ATLAS <sup>3D</sup> project - XI. Dense molecular gas properties of CO-luminous early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1298-1314.	4.4	70
69	The ATLAS3D project - XIII. Mass and morphology of H $\alpha$ in early-type galaxies as a function of environment. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1835-1862.	4.4	326
70	The ATLAS project - XII. Recovery of the mass-to-light ratio of simulated early-type barred galaxies with axisymmetric dynamical models. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1495-1521.	4.4	44
71	The ATLAS3D project - V. The CO Tully-Fisher relation of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 414, 968-984.	4.4	61
72	The star-formation histories of early-type galaxies from ATLAS <sup>3D</sup> . Proceedings of the International Astronomical Union, 2011, 7, 244-247.	0.0	2

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73	DISCOVERY OF AN ACTIVE GALACTIC NUCLEUS DRIVEN MOLECULAR OUTFLOW IN THE LOCAL EARLY-TYPE GALAXY NGC 1266. <i>Astrophysical Journal</i> , 2011, 735, 88.	4.5	244
74	The ATLAS3D project - I. A volume-limited sample of 260 nearby early-type galaxies: science goals and selection criteria. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 813-836.	4.4	867
75	The ATLAS3D project - III. A census of the stellar angular momentum within the effective radius of early-type galaxies: unveiling the distribution of fast and slow rotators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 888-912.	4.4	587
76	The ATLAS3D project - II. Morphologies, kinematic features and alignment between photometric and kinematic axes of early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2923-2949.	4.4	378
77	The ATLAS3D project - IV. The molecular gas content of early-type galaxies~.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 940-967.	4.4	334
78	The ATLAS3D project - VII. A new look at the morphology of nearby galaxies: the kinematic morphology-density relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1680-1696.	4.4	354
79	The ATLAS3D project - VI. Simulations of binary galaxy mergers and the link with fast rotators, slow rotators and kinematically distinct cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1654-1679.	4.4	164
80	The ATLAS3D project - IX. The merger origin of a fast- and a slow-rotating early-type galaxy revealed with deep optical imaging: first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 863-881.	4.4	87
81	The ATLAS3D project - X. On the origin of the molecular and ionized gas in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 882-899.	4.4	235
82	The ATLAS3D project - VIII. Modelling the formation and evolution of fast and slow rotator early-type galaxies within $\Lambda$ CDM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 845-862.	4.4	87
83	Investigating the Merger Origin of Early-type Galaxies using Ultra-deep Optical Images. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 238-241.	0.0	0
84	Molecular Gas and Star Formation in Local Early-type Galaxies. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 55-58.	0.0	0
85	Formation of Slowly Rotating Elliptical Galaxies in Major Mergers. A Resolution Study. , 2010, , .		0
86	Formation of slowly rotating early-type galaxies via major mergers: a resolution study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 2405-2420.	4.4	51
87	Scaling relations in early-type galaxies from integral-field stellar kinematics. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 81-81.	0.0	1
88	Stellar populations of early-type galaxies in the ATLAS[ <sup>3D</sup> ] sample. , 2009, , .		0
89	Optical Light Curve and Cooling Break of GRB 050502A. <i>Astrophysical Journal</i> , 2006, 636, 959-966.	4.5	19
90	The Galaxy Hosts and Large-scale Environments of Short-hard Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2006, 642, 989-994.	4.5	99

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91	Early-Time Observations of the GRB 050319 Optical Transient. <i>Astrophysical Journal</i> , 2006, 640, 402-406.	4.5	39
92	Prompt Optical Detection of GRB 050401 with ROTSE-IIIa. <i>Astrophysical Journal</i> , 2005, 631, L121-L124.	4.5	56
93	A Search for Untriggered GRB Afterglows with ROTSE-III. <i>Astrophysical Journal</i> , 2005, 631, 1032-1038.	4.5	39