Kathryn V Johnston

List of Publications by Year
in descending order

122	8,756	36303 51	42399 92
papers	citations	h-index	g-index

122	122	122	3536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tracing Birth Properties of Stars with Abundance Clustering. Astrophysical Journal, 2022, 924, 60.	4.5	7
2	The Hough Stream Spotter: A New Method for Detecting Linear Structure in Resolved Stars and Application to the Stellar Halo of M31. Astrophysical Journal, 2022, 926, 166.	4.5	13
3	Snails across Scales: Local and Global Phase-mixing Structures as Probes of the Past and Future Milky Way. Astrophysical Journal, 2022, 928, 80.	4.5	13
4	Similarities behind the high- and low-Î± disc: small intrinsic abundance scatter and migrating stars. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2890-2910.	4.4	9
5	Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way. Astrophysical Journal, 2021, 910, 17.	4.5	13
6	A holistic review of a galactic interaction. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2825-2842.	4.4	6
7	Measuring the vertical response of the Galactic disc to an infalling satellite. Monthly Notices of the Royal Astronomical Society, 2021, 508, 541-559.	4.4	17
8	Resolving local and global kinematic signatures of satellite mergers with billion particle simulations. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1459-1472.	4.4	29
9	Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Wayâ€™s Dark Matter Halo Using Basis Function Expansions. Astrophysical Journal, 2021, 919, 109.	4.5	52
10	The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites. Astrophysical Journal, 2021, 923, 140.	4.5	17
11	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
12	Quantifying the Stellar Halo's Response to the LMC's Infall with Spherical Harmonics. Astrophysical Journal, 2020, 898, 4.	4.5	36
13	Tracing the Assembly of the Milky Wayâ€™s Disk through Abundance Clustering. Astrophysical Journal, 2020, 900, 165.	4.5	15
14	Toward a Direct Measure of the Galactic Acceleration. Astrophysical Journal Letters, 2020, 902, L28.	8.3	15
15	Separatrix divergence of stellar streams in galactic potentials. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1791-1802.	4.4	12
16	Hunting for the Dark Matter Wake Induced by the Large Magellanic Cloud. Astrophysical Journal, 2019, 884, 51.	4.5	111
17	The Implications of Local Fluctuations in the Galactic Midplane for Dynamical Analysis in the Gaia Era. Astrophysical Journal, 2019, 883, 103.	4.5	13
18	A machine-vision method for automatic classification of stellar halo substructure. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3604-3616.	4.4	16

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19	Footprints of the Sagittarius dwarf galaxy in the Gaia data set. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3134-3152.	4.4	196
20	Stellar disc streams as probes of the Galactic potential and satellite impacts. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1427-1436.	4.4	21
21	Dark matter halo properties versus local density and cosmic web location. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2101-2122.	4.4	22
22	In the Galactic Disk, Stellar [Fe/H] and Age Predict Orbits and Precise [X/Fe]. Astrophysical Journal, 2019, 883, 177.	4.5	52
23	A dynamical systems description of privilege, power and leadership in academia. Nature Astronomy, 2019, 3, 1060-1066.	10.1	7
24	Variations in Î±-element Ratios Trace the Chemical Evolution of the Disk. Astrophysical Journal, 2019, 883, 34.	4.5	16
25	Detecting Thin Stellar Streams in External Galaxies: Resolved Stars and Integrated Light. Astrophysical Journal, 2019, 883, 87.	4.5	14
26	A Disk Origin for the Monoceros Ring and A13 Stellar Overdensities. Astrophysical Journal, 2018, 854, 47.	4.5	34
27	Two chemically similar stellar overdensities on opposite sides of the plane of the Galactic disk. Nature, 2018, 555, 334-337.	27.8	57
28	Response of the Milky Way's disc to the Large Magellanic Cloud in a first infall scenario. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1218-1230.	4.4	95
29	SMHASH: a new mid-infrared RR Lyrae distance determination for the Local Group dwarf spheroidal galaxy Sculptor. Monthly Notices of the Royal Astronomical Society, 2018, 481, 578-595.	4.4	4
30	Modelling the baryon cycle in low-mass galaxy encounters: the case of NGC 4490 and NGC 4485. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3069-3090.	4.4	26
31	Metal Mixing and Ejection in Dwarf Galaxies Are Dependent on Nucleosynthetic Source. Astrophysical Journal, 2018, 869, 94.	4.5	31
32	Tidal Features at 0.05Â<ÂzÂ<Â0.45 in the Hyper Suprime-Cam Subaru Strategic Program: Properties and Formation Channels. Astrophysical Journal, 2018, 866, 103.	4.5	41
33	Spectroscopic follow-up of the Herculesâ€“Aquila Cloud. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3913-3923.	4.4	12
34	SMHASH: anatomy of the Orphan Stream using RR Lyrae stars. Monthly Notices of the Royal Astronomical Society, 2018, 479, 570-587.	4.4	14
35	The influence of Sagittarius and the Large Magellanic Cloud on the stellar disc of the Milky Way Galaxy. Monthly Notices of the Royal Astronomical Society, 2018, 481, 286-306.	4.4	148
36	Exploring simulated early star formation in the context of the ultrafaint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4868-4880.	4.4	16

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37	EXPLODING SATELLITESâ€"THE TIDAL DEBRIS OF THE ULTRA-FAINT DWARF GALAXY HERCULES. Astrophysical Journal, 2017, 834, 112.	4.5	25
38	Gaps and length asymmetry in the stellar stream Palomar 5 as effects of Galactic bar rotation. Nature Astronomy, 2017, 1, 633-639.	10.1	75
39	Exploring Halo Substructure with Giant Stars. XV. Discovery of a Connection between the Monoceros Ring and the Triangulumâ€"Andromeda Overdensity?[*] ^{â€} ^{â€¡}. Astrophysical Journal, 2017, 844, 74.	4.5	32
40	New views of the distant stellar halo. Monthly Notices of the Royal Astronomical Society, 2017, 470, 5014-5031.	4.4	13
41	New Views From Galactoseismology: Rethinking the Galactic Disk-Halo Connection. Proceedings of the International Astronomical Union, 2017, 13, 185-188.	0.0	0
42	Quantifying tidal stream disruption in a simulated Milky Way. Monthly Notices of the Royal Astronomical Society, 2017, 470, 522-538.	4.4	12
43	Disk Heating, Galactoseismology, and the Formation of Stellar Halos. Galaxies, 2017, 5, 44.	3.0	8
44	Chaotic dispersal of tidal debris. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1079-1098.	4.4	57
45	EVIDENCE OF FANNING IN THE OPHIUCHUS STREAM. Astrophysical Journal Letters, 2016, 816, L4.	8.3	9
46	SPENDING TOO MUCH TIME AT THE GALACTIC BAR: CHAOTIC FANNING OF THE OPHIUCHUS STREAM. Astrophysical Journal, 2016, 824, 104.	4.5	37
47	Origins and Interpretation of Tidal Debris. Astrophysics and Space Science Library, 2016, , 141-167.	2.7	5
48	Tidal Debris as a Dark Matter Probe. Astrophysics and Space Science Library, 2016, , 169-190.	2.7	3
49	Globular Cluster Streams as Galactic High-Precision Scales. Proceedings of the International Astronomical Union, 2015, 11, 140-144.	0.0	0
50	Contributions to the Galactic halo from in-situ, kicked-out, and accreted stars. Proceedings of the International Astronomical Union, 2015, 11, 241-246.	0.0	0
51	Origins of Stellar Halos. Proceedings of the International Astronomical Union, 2015, 11, 1-8.	0.0	1
52	Reconstructing the Accretion History of the Galactic Halo Using Stellar Chemical Abundance Ratio Distributions. Proceedings of the International Astronomical Union, 2015, 11, 328-329.	0.0	0
53	A reinterpretation of the Triangulumâ€"Andromeda stellar clouds: a population of halo stars kicked out of the Galactic disc. Monthly Notices of the Royal Astronomical Society, 2015, 452, 676-685.	4.4	85
54	GLOBULAR CLUSTER STREAMS AS GALACTIC HIGH-PRECISION SCALESâ€"THE POSTER CHILD PALOMAR 5. Astrophysical Journal, 2015, 803, 80.	4.5	156

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55	TIDAL STREAM MORPHOLOGY AS AN INDICATOR OF DARK MATTER HALO GEOMETRY: THE CASE OF PALOMAR 5. Astrophysical Journal, 2015, 799, 28.	4.5	61
56	Tidal debris morphology and the orbits of satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2472-2485.	4.4	57
57	RECONSTRUCTING THE ACCRETION HISTORY OF THE GALACTIC STELLAR HALO FROM CHEMICAL ABUNDANCE RATIO DISTRIBUTIONS. Astrophysical Journal, 2015, 802, 48.	4.5	25
58	MILKY WAY MASS AND POTENTIAL RECOVERY USING TIDAL STREAMS IN A REALISTIC HALO. Astrophysical Journal, 2014, 795, 94.	4.5	70
59	EXPLORING HALO SUBSTRUCTURE WITH GIANT STARS. XIV. THE NATURE OF THE TRIANGULUM-ANDROMEDA STELLAR FEATURES. Astrophysical Journal, 2014, 793, 62.	4.5	49
60	INFERRING THE GRAVITATIONAL POTENTIAL OF THE MILKY WAY WITH A FEW PRECISELY MEASURED STARS. Astrophysical Journal, 2014, 794, 4.	4.5	46
61	Constraining the Milky Way halo shape using thin streams. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2386-2397.	4.4	32
62	The effect of feedback and reionization on star formation in low-mass dwarf galaxy haloes. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1989-2011.	4.4	68
63	CHEMICAL ABUNDANCE PATTERNS AND THE EARLY ENVIRONMENT OF DWARF GALAXIES. Astrophysical Journal, 2013, 773, 105.	4.5	11
64	DISCOVERY OF A DYNAMICAL COLD POINT IN THE HEART OF THE SAGITTARIUS dSph GALAXY WITH OBSERVATIONS FROM THE APOGEE PROJECT. Astrophysical Journal Letters, 2013, 777, L13.	8.3	32
65	SPITZER , GAIA , AND THE POTENTIAL OF THE MILKY WAY. Astrophysical Journal Letters, 2013, 778, L12.	8.3	25
66	A MASS-DEPENDENT YIELD ORIGIN OF NEUTRON-CAPTURE ELEMENT ABUNDANCE DISTRIBUTIONS IN ULTRA-FAINT DWARFS. Astrophysical Journal, 2013, 774, 103.	4.5	20
67	BROKEN AND UNBROKEN: THE MILKY WAY AND M31 STELLAR HALOS. Astrophysical Journal, 2013, 763, 113.	4.5	147
68	IDENTIFYING CONTRIBUTIONS TO THE STELLAR HALO FROM ACCRETED, KICKED-OUT, AND IN SITU POPULATIONS. Astrophysical Journal, 2012, 761, 161.	4.5	43
69	A 2MASS ALL-SKY VIEW OF THE SAGITTARIUS DWARF GALAXY. VII. KINEMATICS OF THE MAIN BODY OF THE SAGITTARIUS dSph. Astrophysical Journal, 2012, 756, 74.	4.5	37
70	PROBING THE HALO FROM THE SOLAR VICINITY TO THE OUTER GALAXY: CONNECTING STARS IN LOCAL VELOCITY STRUCTURES TO LARGE-SCALE CLOUDS. Astrophysical Journal, 2012, 760, 95.	4.5	14
71	Identifying Local Group field galaxies that have interacted with the Milky Way. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1808-1818.	4.4	94
72	CLUMPY STREAMS FROM CLUMPY HALOS: DETECTING MISSING SATELLITES WITH COLD STELLAR STRUCTURES. Astrophysical Journal, 2011, 731, 58.	4.5	148

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73	GROUP FINDING IN THE STELLAR HALO USING PHOTOMETRIC SURVEYS: CURRENT SENSITIVITY AND FUTURE PROSPECTS. Astrophysical Journal, 2011, 728, 106.	4.5	24
74	QUANTIFYING KINEMATIC SUBSTRUCTURE IN THE MILKY WAY'S STELLAR HALO. Astrophysical Journal, 2011, 738, 79.	4.5	125
75	GALAXIA: A CODE TO GENERATE A SYNTHETIC SURVEY OF THE MILKY WAY. Astrophysical Journal, 2011, 730, 3.	4.5	255
76	GROUP FINDING IN THE STELLAR HALO USING M-GIANTS IN THE TWO MICRON ALL SKY SURVEY: AN EXTENDED VIEW OF THE PISCES OVERDENSITY?. Astrophysical Journal, 2010, 722, 750-759.	4.5	50
77	MEASURING TRANSVERSE MOTIONS FOR NEARBY GALAXY CLUSTERS. Astrophysical Journal Letters, 2010, 716, L205-L208.	8.3	7
78	THE DOMINANCE OF METAL-RICH STREAMS IN STELLAR HALOS: A COMPARISON BETWEEN SUBSTRUCTURE IN M31 AND Î›CDM MODELS. Astrophysical Journal, 2009, 701, 776-786.	4.5	42
79	A GROUP FINDING ALGORITHM FOR MULTIDIMENSIONAL DATA SETS. Astrophysical Journal, 2009, 703, 1061-1077.	4.5	50
80	EVIDENCE FOR A TRIAXIAL MILKY WAY DARK MATTER HALO FROM THE SAGITTARIUS STELLAR TIDAL STREAM. Astrophysical Journal, 2009, 703, L67-L71.	4.5	131
81	WANDERING STARS: AN ORIGIN OF ESCAPED POPULATIONS. Astrophysical Journal, 2009, 707, L22-L26.	4.5	20
82	Taking the Measure of the Universe: Precision Astrometry withSIM PlanetQuest. Publications of the Astronomical Society of the Pacific, 2008, 120, 38-88.	3.1	142
83	The Stellar Content of Galaxy Halos: A Comparison between Î›CDM Models and Observations of M31. Astrophysical Journal, 2008, 673, 215-225.	4.5	65
84	Modeling the Structure and Dynamics of Dwarf Spheroidal Galaxies with Dark Matter and Tides. Astrophysical Journal, 2008, 679, 346-372.	4.5	90
85	The Accretion Origin of the Milky Wayâ€™s Stellar Halo. Astrophysical Journal, 2008, 680, 295-311.	4.5	359
86	Darwin Tames an Andromeda Dwarf: Unraveling the Orbit of NGC 205 Using a Genetic Algorithm. Astrophysical Journal, 2008, 683, 722-749.	4.5	34
87	Tracing Galaxy Formation with Stellar Halos. II. Relating Substructure in Phase and Abundance Space to Accretion Histories. Astrophysical Journal, 2008, 689, 936-957.	4.5	317
88	THE NATURE AND ORIGIN OF SUBSTRUCTURE IN THE OUTSKIRTS OF M31. I. SURVEYING THE STELLAR CONTENT WITH THEHUBBLE SPACE TELESCOPEADVANCED CAMERA FOR SURVEYS. Astronomical Journal, 2008, 135, 1998-2012.	4.7	75
89	Probing the Nature of the G1 Clump Stellar Overdensity in the Outskirts of M31. Astronomical Journal, 2007, 133, 1275-1286.	4.7	23
90	Exploring Halo Substructure with Giant Stars. X. Extended Dark Matter or Tidal Disruption?: The Case for the Leo I Dwarf Spheroidal Galaxy. Astrophysical Journal, 2007, 663, 960-989.	4.5	117

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91	DYNAMICAL EVOLUTION OF ACCRETED DWARF GALAXIES. , 2007, , 227-238.		2
92	Phaseâ€Space Distributions of Chemical Abundances in Milky Wayâ€"Type Galaxy Halos. Astrophysical Journal, 2006, 646, 886-898.	4.5	100
93	The Effect of Substructure on Mass Estimates of Galaxies. Astrophysical Journal, 2006, 643, 154-161.	4.5	17
94	Dynamics and Stellar Content of the Giant Southern Stream in M31. I. Keck Spectroscopy of Red Giant Stars. Astronomical Journal, 2006, 131, 2497-2513.	4.7	104
95	Dynamics and Stellar Content of the Giant Southern Stream in M31. II. Interpretation. Astronomical Journal, 2006, 131, 1436-1444.	4.7	72
96	Chemical Abundance Distributions of Galactic Halos and Their Satellite Systems in a Î›CDM Universe. Astrophysical Journal, 2006, 638, 585-595.	4.5	166
97	Exploring Halo Substructure with Giant Stars. XI. The Tidal Tails of the Carina Dwarf Spheroidal Galaxy and the Discovery of Magellanic Cloud Stars in the Carina Foreground. Astrophysical Journal, 2006, 649, 201-223.	4.5	157
98	Tracing Galaxy Formation with Stellar Halos. I. Methods. Astrophysical Journal, 2005, 635, 931-949.	4.5	824
99	The Stellar Populations of the M31 Halo Substructure. Astrophysical Journal, 2005, 622, L109-L112.	4.5	80
100	A Two Micron All Sky Survey View of the Sagittarius Dwarf Galaxy. III. Constraints on the Flattening of the Galactic Halo. Astrophysical Journal, 2005, 619, 800-806.	4.5	192
101	Î› Cold Dark Matter, Stellar Feedback, and the Galactic Halo Abundance Pattern. Astrophysical Journal, 2005, 632, 872-881.	4.5	189
102	Modeling Complete Distributions with Incomplete Observations: The Velocity Ellipsoid fromHipparcosData. Astrophysical Journal, 2005, 629, 268-275.	4.5	62
103	A Two Micron Allâ€Sky Survey View of the Sagittarius Dwarf Galaxy. IV. Modeling the Sagittarius Tidal Tails. Astrophysical Journal, 2005, 619, 807-823.	4.5	277
104	Dark Matter Constraints from the Sagittarius Dwarf and Tail System. Symposium - International Astronomical Union, 2004, 220, 189-194.	0.1	0
105	A Two Micron All Sky Survey View of the Sagittarius Dwarf Galaxy. II. Swope Telescope Spectroscopy of M Giant Stars in the Dynamically Cold Sagittarius Tidal Stream. Astronomical Journal, 2004, 128, 245-259.	4.7	136
106	Constraining the Distribution of Dark Matter Lumps Around the Milky Way Using Tidal Debris. Symposium - International Astronomical Union, 2003, 208, 209-214.	0.1	0
107	How Lumpy Is the Milky Wayâ€™s Dark Matter Halo?. Astrophysical Journal, 2002, 570, 656-664.	4.5	162
108	On the Distribution of Orbital Poles of Milky Way Satellites. Astrophysical Journal, 2002, 564, 736-761.	4.5	79

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109	Tidal Interaction of M32 and NGC 205 with M31: Surface Photometry and Numerical Simulations. Astronomical Journal, 2002, 124, 310-331.	4.7	127
110	Interpreting the Morphology of Diffuse Light around Satellite Galaxies. Astronomical Journal, 2002, 124, 127-146.	4.7	59
111	Exploring Halo Substructure with Giant Stars. III. First Results from the Grid Giant Star Survey and Discovery of a Possible Nearby Sagittarius Tidal Structure in Virgo. Astrophysical Journal, 2002, 576, L125-L129.	4.5	22
112	The Grid Giant Star Survey for the Space Interferometry Mission. International Astronomical Union Colloquium, 2001, 183, 65-74.	0.1	0
113	Interpreting Debris from Satellite Disruption in External Galaxies. Astrophysical Journal, 2001, 557, 137-149.	4.5	88
114	Exploring Halo Substructure with Giant Stars. II. Mapping the Extended Structure of the Carina Dwarf Spheroidal Galaxy. Astronomical Journal, 2000, 119, 760-776.	4.7	89
115	Measuring mass-loss rates from Galactic satellites. Monthly Notices of the Royal Astronomical Society, 1999, 302, 771-789.	4.4	113
116	Constraining the History of the Sagittarius Dwarf Galaxy Using Observations of Its Tidal Debris. Astronomical Journal, 1999, 118, 1719-1726.	4.7	79
117	Starcounts Redivivus. III. A Possible Detection of the Sagittarius Dwarf Spheroidal Galaxy at [CLC][ITAL]b[/ITAL][/CLC]â€‰=â€‰â^'40Â°. Astronomical Journal, 1999, 118, 1709-1718.	4.7	57
118	Tidal Streams as Probes of the Galactic Potential. Astrophysical Journal, 1999, 512, L109-L112.	4.5	151
119	A Prescription for Building the Milky Way's Halo from Disrupted Satellites. Astrophysical Journal, 1998, 495, 297-308.	4.5	239
120	Fossil Signatures of Ancient Accretion Events in the Halo. Astrophysical Journal, 1996, 465, 278.	4.5	234
121	The Disruption of the Sagittarius Dwarf Galaxy. Astrophysical Journal, 1995, 451, 598.	4.5	240
122	How cosmic microwave background correlations at large angles relate to mass autocorrelations in space. Astrophysical Journal, 1994, 432, 1.	4.5	2