Adrian M Price-Whelan

List of Publications by Year
in descending order

79 papers	24,477 citations	101384 36 h-index	69108 77 g-index
79 all docs	79 docs citations	79 times ranked	15629 citing authors

#	Article	IF	Citations
1	Astropy: A community Python package for astronomy. Astronomy and Astrophysics, 2013, 558, A33.	2.1	8,416
2	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package[*]. Astronomical Journal, 2018, 156, 123.	1.9	4,142
3	Binary Companions of Evolved Stars in APOGEE DR14: Search Method and Catalog of â^¼5000 Companions. Astronomical Journal, 2018, 156, 18.	1.9	2,267
4	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2015, 219, 12.	3.0	1,877
5	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. Astronomical Journal, 2011, 142, 72.	1.9	1,700
6	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2011, 193, 29.	3.0	1,166
7	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. Astrophysical Journal, Supplement Series, 2020, 249, 3.	3.0	826
8	THE TENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III APACHE POINT OBSERVATORY GALACTIC EVOLUTION EXPERIMENT. Astrophysical Journal, Supplement Series, 2014, 211, 17.	3.0	820
9	The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. Astrophysical Journal, Supplement Series, 2022, 259, 35.	3.0	405
10	Gala: A Python package for galactic dynamics. Journal of Open Source Software, 2017, 2, 388.	2.0	169
11	Multiple retrograde substructures in the Galactic halo: A shattered view of Galactic history. Astronomy and Astrophysics, 2019, 631, L9.	2.1	151
12	Comoving Stars in Gaia DR1: An Abundance of Very Wide Separation Comoving Pairs. Astronomical Journal, 2017, 153, 257.	1.9	128
13	The Joker: A Custom Monte Carlo Sampler for Binary-star and Exoplanet Radial Velocity Data. Astrophysical Journal, 2017, 837, 20.	1.6	118
14	The Spur and the Gap in GD-1: Dynamical Evidence for a Dark Substructure in the Milky Way Halo. Astrophysical Journal, 2019, 880, 38.	1.6	114
15	exoplanet: Gradient-based probabilistic inference for exoplanet data other astronomical time series. Journal of Open Source Software, 2021, 6, 3285.	2.0	104
16	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.	1.6	85
17	Off the Beaten Path: Gaia Reveals GD-1 Stars outside of the Main Stream. Astrophysical Journal Letters, 2018, 863, L20.	3.0	83
18	Piercing the Milky Way: an all-sky view of the Orphan Stream. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4726-4742.	1.6	83

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19	Gaps and length asymmetry in the stellar stream Palomar 5 as effects of Galactic bar rotation. Nature Astronomy, 2017, 1, 633-639.	4.2	75
20	Kronos and Krios: Evidence for Accretion of a Massive, Rocky Planetary System in a Comoving Pair of Solar-type Stars. Astrophysical Journal, 2018, 854, 138.	1.6	74
21	Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Colorâ€“Magnitude Diagram. Astrophysical Journal, 2020, 895, 2.	1.6	74
22	The Gas Content and Stripping of Local Group Dwarf Galaxies. Astrophysical Journal, 2021, 913, 53.	1.6	72
23	APOGEE Chemical Abundance Patterns of the Massive Milky Way Satellites. Astrophysical Journal, 2021, 923, 172.	1.6	64
24	TIDAL STREAM MORPHOLOGY AS AN INDICATOR OF DARK MATTER HALO GEOMETRY: THE CASE OF PALOMAR 5. Astrophysical Journal, 2015, 799, 28.	1.6	61
25	Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants. Astrophysical Journal, 2019, 880, 125.	1.6	59
26	Chaotic dispersal of tidal debris. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1079-1098.	1.6	57
27	Two chemically similar stellar overdensities on opposite sides of the plane of the Galactic disk. Nature, 2018, 555, 334-337.	13.7	57
28	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.	1.6	52
29	Metallicity and Î±-Element Abundance Gradients along the Sagittarius Stream as Seen by APOGEE. Astrophysical Journal, 2020, 889, 63.	1.6	51
30	astroplan: An Open Source Observation Planning Package in Python. Astronomical Journal, 2018, 155, 128.	1.9	47
31	INFERRING THE GRAVITATIONAL POTENTIAL OF THE MILKY WAY WITH A FEW PRECISELY MEASURED STARS. Astrophysical Journal, 2014, 794, 4.	1.6	46
32	Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey. Astronomical Journal, 2021, 162, 303.	1.9	46
33	Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey. Astronomical Journal, 2021, 162, 302.	1.9	44
34	A Probabilistic Approach to Fitting Periodâ€“luminosity Relations and Validating Gaia Parallaxes. Astrophysical Journal, 2017, 838, 107.	1.6	41
35	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.	1.6	41
36	Variations in the Width, Density, and Direction of the Palomar 5 Tidal Tails. Astrophysical Journal, 2020, 889, 70.	1.6	41

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37	Double-lined Spectroscopic Binaries in the APOGEE DR16 and DR17 Data. Astronomical Journal, 2021, 162, 184.	1.9	40
38	SPENDING TOO MUCH TIME AT THE GALACTIC BAR: CHAOTIC FANNING OF THE OPHIUCHUS STREAM. Astrophysical Journal, 2016, 824, 104.	1.6	37
39	A Disk Origin for the Monoceros Ring and A13 Stellar Overdensities. Astrophysical Journal, 2018, 854, 47.	1.6	34
40	The close binary fraction as a function of stellar parameters in APOGEE: a strong anticorrelation with Î± abundances. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1607-1626.	1.6	34
41	High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius. Astrophysical Journal Letters, 2020, 892, L37.	3.0	34
42	Exploring the Evolution of Stellar Rotation Using Galactic Kinematics. Astronomical Journal, 2020, 160, 90.	1.9	34
43	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.	1.6	32
44	Multiple Components of the Jhelum Stellar Stream. Astrophysical Journal Letters, 2019, 881, L37.	3.0	32
45	schwimmbad: A uniform interface to parallel processing pools in Python. Journal of Open Source Software, 2017, 2, .	2.0	30
46	Unicorns and giraffes in the binary zoo: stripped giants with subgiant companions. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5620-5641.	1.6	30
47	Kinematics of the Palomar 5 Stellar Stream from RR Lyrae Stars. Astronomical Journal, 2019, 158, 223.	1.9	29
48	THE NATURE AND ORBIT OF THE OPHIUCHUS STREAM. Astrophysical Journal, 2015, 809, 59.	1.6	26
49	SPITZER , GAIA , AND THE POTENTIAL OF THE MILKY WAY. Astrophysical Journal Letters, 2013, 778, L12.	3.0	25
50	TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up. Astronomical Journal, 2021, 162, 54.	1.9	25
51	SunPy: A Python package for Solar Physics. Journal of Open Source Software, 2020, 5, 1832.	2.0	25
52	Binary Companions of Evolved Stars in APOGEE DR14: Orbital Circularization. Astrophysical Journal, 2018, 867, 5.	1.6	24
53	Disk-like Chemistry of the Triangulum-Andromeda Overdensity as Seen by APOGEE. Astrophysical Journal Letters, 2018, 859, L8.	3.0	24
54	Stellar Abundance Maps of the Milky Way Disk. Astrophysical Journal, 2022, 928, 23.	1.6	23

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55	Hypervelocity Stars from a Supermassive Black Holeâ€“Intermediate-mass Black Hole Binary. Astrophysical Journal, 2019, 878, 17.	1.6	22
56	Discovery of a Disrupting Open Cluster Far into the Milky Way Halo: A Recent Star Formation Event in the Leading Arm of the Magellanic Stream?. Astrophysical Journal, 2019, 887, 19.	1.6	20
57	Selection Functions in Astronomical Data Modeling, with the Space Density of White Dwarfs as a Worked Example. Astronomical Journal, 2021, 162, 142.	1.9	20
58	Discovery of Extended Tidal Tails around the Globular Cluster Palomar 13. Astronomical Journal, 2020, 160, 244.	1.9	20
59	Snowmass2021 theory frontier white paper: Astrophysical and cosmological probes of dark matter. Journal of High Energy Astrophysics, 2022, 35, 112-138.	2.4	20
60	Improving Gaia Parallax Precision with a Data-driven Model of Stars. Astronomical Journal, 2018, 156, 145.	1.9	19
61	Age-dating Red Giant Stars Associated with Galactic Disk and Halo Substructures. Astrophysical Journal, 2021, 916, 88.	1.6	19
62	Spectroscopy of the Young Stellar Association Price-Whelan 1: Origin in the Magellanic Leading Arm and Constraints on the Milky Way Hot Halo. Astrophysical Journal, 2019, 887, 115.	1.6	17
63	The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites. Astrophysical Journal, 2021, 923, 140.	1.6	17
64	SMHASH: anatomy of the Orphan Stream using RR Lyrae stars. Monthly Notices of the Royal Astronomical Society, 2018, 479, 570-587.	1.6	14
65	Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way. Astrophysical Journal, 2021, 910, 17.	1.6	13
66	Snails across Scales: Local and Global Phase-mixing Structures as Probes of the Past and Future Milky Way. Astrophysical Journal, 2022, 928, 80.	1.6	13
67	No Massive Companion to the Coherent Radio-emitting M Dwarf GJ 1151. Astrophysical Journal Letters, 2020, 890, L19.	3.0	12
68	Separatrix divergence of stellar streams in galactic potentials. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1791-1802.	1.6	12
69	EVIDENCE OF FANNING IN THE OPHIUCHUS STREAM. Astrophysical Journal Letters, 2016, 816, L4.	3.0	9
70	Disk Heating, Galactoseismology, and the Formation of Stellar Halos. Galaxies, 2017, 5, 44.	1.1	8
71	Detecting the Figure Rotation of Dark Matter Halos with Tidal Streams. Astrophysical Journal, 2021, 910, 150.	1.6	8
72	A Larger Extent for the Ophiuchus Stream. Astronomical Journal, 2020, 159, 287.	1.9	8

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73	Orbital and Stellar Parameters for 2M06464003+0109157: A Double-lined Eclipsing Binary of Spotted, Sub-solar Twins. Publications of the Astronomical Society of the Pacific, 2021, 133, 044201.	1.0	3
74	Chemodynamically Characterizing the Jhelum Stellar Stream with APOGEE-2. Astrophysical Journal, 2021, 913, 39.	1.6	3
75	DuoDIC: 3D Digital Image Correlation in MATLAB. Journal of Open Source Software, 2022, 7, 4279.	2.0	3
76	The 3D Galactocentric Velocities of Kepler Stars: Marginalizing Over Missing Radial Velocities. Astronomical Journal, 2022, 164, 25.	1.9	2
77	SALSA: A Python Package for Constructing Synthetic Quasar Absorption Line Catalogs from Astrophysical Hydrodynamic Simulations. Journal of Open Source Software, 2020, 5, 2581.	2.0	1
78	New Views From Galactoseismology: Rethinking the Galactic Disk-Halo Connection. Proceedings of the International Astronomical Union, 2017, 13, 185-188.	0.0	0
79	SurPyval: Survival Analysis with Python. Journal of Open Source Software, 2021, 6, 3484.	2.0	0