Adrian M Price-Whelan

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75 papers	15,255 citations	28 h-index	79 g-index
79 ext. papers	19,739 ext. citations	5.7 avg, IF	5.84 L-index

#	Paper	IF	Citations
75	Astropy: A community Python package for astronomy. *Astronomy and Astrophysics*, **2013**, 558, A33	5.1	5247
74	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package. *Astronomical Journal*, **2018**, 156, 123	4.9	2084
73	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. *Astrophysical Journal, Supplement Series*, **2015**, 219, 12	8	1504
72	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. *Astronomical Journal*, **2011**, 142, 72	4.9	1438
71	Binary Companions of Evolved Stars in APOGEE DR14: Search Method and Catalog of ~5000 Companions. *Astronomical Journal*, **2018**, 156, 18	4.9	1182
70	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. *Astrophysical Journal, Supplement Series*, **2011**, 193, 29	8	1063
69	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	8	760
68	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	8	363
67	Comoving Stars inGaiaDR1: An Abundance of Very Wide Separation Comoving Pairs. *Astronomical Journal*, **2017**, 153, 257	4.9	93
66	Gala: A Python package for galactic dynamics. *Journal of Open Source Software*, **2017**, 2, 388	5.2	90
65	The Joker:A Custom Monte Carlo Sampler for Binary-star and Exoplanet Radial Velocity Data. *Astrophysical Journal*, **2017**, 837, 20	4.7	78
64	A reinterpretation of the Triangulum–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	4.3	73
63	Multiple retrograde substructures in the Galactic halo: A shattered view of Galactic history. *Astronomy and Astrophysics*, **2019**, 631, L9	5.1	73
62	The Spur and the Gap in GD-1: Dynamical Evidence for a Dark Substructure in the Milky Way Halo. *Astrophysical Journal*, **2019**, 880, 38	4.7	67
61	Off the Beaten Path: Gaia Reveals GD-1 Stars outside of the Main Stream. *Astrophysical Journal Letters*, **2018**, 863, L20	7.9	61
60	Piercing the Milky Way: an all-sky view of the Orphan Stream. *Monthly Notices of the Royal Astronomical Society*, **2019**, 485, 4726-4742	4.3	56
59	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	4.7	54

58	Gaps and length asymmetry in the stellar stream Palomar 5 as effects of Galactic bar rotation. *Nature Astronomy*, **2017**, 1, 633-639	12.1	54
57	TIDAL STREAM MORPHOLOGY AS AN INDICATOR OF DARK MATTER HALO GEOMETRY: THE CASE OF PALOMAR 5. *Astrophysical Journal*, **2015**, 799, 28	4.7	50
56	Two chemically similar stellar overdensities on opposite sides of the plane of the Galactic disk. *Nature*, **2018**, 555, 334-337	50.4	47
55	Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color–Magnitude Diagram. *Astrophysical Journal*, **2020**, 895, 2	4.7	44
54	Chaotic dispersal of tidal debris. *Monthly Notices of the Royal Astronomical Society*, **2016**, 455, 1079-1098	4.3	40
53	A Probabilistic Approach to Fitting Period–Luminosity Relations and Validating Gaia Parallaxes. *Astrophysical Journal*, **2017**, 838, 107	4.7	37
52	INFERRING THE GRAVITATIONAL POTENTIAL OF THE MILKY WAY WITH A FEW PRECISELY MEASURED STARS. *Astrophysical Journal*, **2014**, 794, 4	4.7	37
51	Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants. *Astrophysical Journal*, **2019**, 880, 125	4.7	33
50	Metallicity and α-Element Abundance Gradients along the Sagittarius Stream as Seen by APOGEE. *Astrophysical Journal*, **2020**, 889, 63	4.7	30
49	A Disk Origin for the Monoceros Ring and A13 Stellar Overdensities. *Astrophysical Journal*, **2018**, 854, 47	4.7	29
48	Exploring Halo Substructure with Giant Stars. XV. Discovery of a Connection between the Monoceros Ring and the Triangulum–Andromeda Overdensity?. *Astrophysical Journal*, **2017**, 844, 74	4.7	28
47	exoplanet: Gradient-based probabilistic inference for exoplanet data other astronomical time series. *Journal of Open Source Software*, **2021**, 6, 3285	5.2	28
46	SPENDING TOO MUCH TIME AT THE GALACTIC BAR: CHAOTIC FANNING OF THE OPHIUCHUS STREAM. *Astrophysical Journal*, **2016**, 824, 104	4.7	27
45	astroplan: An Open Source Observation Planning Package in Python. *Astronomical Journal*, **2018**, 155, 128	4.9	27
44	Multiple Components of the Jhelum Stellar Stream. *Astrophysical Journal Letters*, **2019**, 881, L37	7.9	25
43	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	8	24
42	THE NATURE AND ORBIT OF THE OPHIUCHUS STREAM. *Astrophysical Journal*, **2015**, 809, 59	4.7	23
41	SPITZER , GAIA , AND THE POTENTIAL OF THE MILKY WAY. *Astrophysical Journal Letters*, **2013**, 778, L12	7.9	23

40	Tidal Features at 0.05 Astrophysical Journal, **2018**, 866, 103	4.7	23
39	High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius. *Astrophysical Journal Letters*, **2020**, 892, L37	7.9	22
38	Binary Companions of Evolved Stars in APOGEE DR14: Orbital Circularization. *Astrophysical Journal*, **2018**, 867, 5	4.7	19
37	Disk-like Chemistry of the Triangulum-Andromeda Overdensity as Seen by APOGEE. *Astrophysical Journal Letters*, **2018**, 859, L8	7.9	18
36	schwimmbad: A uniform interface to parallel processing pools in Python. *Journal of Open Source Software*, **2017**, 2,	5.2	18
35	Variations in the Width, Density, and Direction of the Palomar 5 Tidal Tails. *Astrophysical Journal*, **2020**, 889, 70	4.7	17
34	The Gas Content and Stripping of Local Group Dwarf Galaxies. *Astrophysical Journal*, **2021**, 913, 53	4.7	17
33	Kinematics of the Palomar 5 Stellar Stream from RR Lyrae Stars. *Astronomical Journal*, **2019**, 158, 223	4.9	17
32	Improving Gaia Parallax Precision with a Data-driven Model of Stars. *Astronomical Journal*, **2018**, 156, 145	4.9	17
31	Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Way□ Dark Matter Halo Using Basis Function Expansions. *Astrophysical Journal*, **2021**, 919, 109	4.7	17
30	Exploring the Evolution of Stellar Rotation Using Galactic Kinematics. *Astronomical Journal*, **2020**, 160, 90	4.9	15
29	Hypervelocity Stars from a Supermassive Black Hole□ntermediate-mass Black Hole Binary. *Astrophysical Journal*, **2019**, 878, 17	4.7	13
28	The Close Binary Fraction as a Function of Stellar Parameters in APOGEE: A Strong Anti-Correlation With □Abundances. *Monthly Notices of the Royal Astronomical Society*, **2020**,	4.3	13
27	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	4.7	13
26	SMHASH: anatomy of the Orphan Stream using RR Lyrae stars. *Monthly Notices of the Royal Astronomical Society*, **2018**, 479, 570-587	4.3	12
25	SunPy: A Python package for Solar Physics. *Journal of Open Source Software*, **2020**, 5, 1832	5.2	10
24	Double-lined Spectroscopic Binaries in the APOGEE DR16 and DR17 Data. *Astronomical Journal*, **2021**, 162, 184	4.9	10
23	EVIDENCE OF FANNING IN THE OPHIUCHUS STREAM. *Astrophysical Journal Letters*, **2016**, 816, L4	7.9	8

22	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	4.7	8
21	Discovery of Extended Tidal Tails around the Globular Cluster Palomar 13. *Astronomical Journal*, **2020**, 160, 244	4.9	7
20	APOGEE Chemical Abundance Patterns of the Massive Milky Way Satellites. *Astrophysical Journal*, **2021**, 923, 172	4.7	7
19	No Massive Companion to the Coherent Radio-emitting M Dwarf GJ 1151. *Astrophysical Journal Letters*, **2020**, 890, L19	7.9	6
18	Selection Functions in Astronomical Data Modeling, with the Space Density of White Dwarfs as a Worked Example. *Astronomical Journal*, **2021**, 162, 142	4.9	6
17	A Larger Extent for the Ophiuchus Stream. *Astronomical Journal*, **2020**, 159, 287	4.9	5
16	Disk Heating, Galactoseismology, and the Formation of Stellar Halos. *Galaxies*, **2017**, 5, 44	2	4
15	Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way. *Astrophysical Journal*, **2021**, 910, 17	4.7	4
14	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	4.9	4
13	The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites. *Astrophysical Journal*, **2021**, 923, 140	4.7	4
12	Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey. *Astronomical Journal*, **2021**, 162, 303	4.9	4
11	Separatrix divergence of stellar streams in galactic potentials. *Monthly Notices of the Royal Astronomical Society*, **2020**, 501, 1791-1802	4.3	3
10	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	5	3
9	Stellar Abundance Maps of the Milky Way Disk. *Astrophysical Journal*, **2022**, 928, 23	4.7	3
8	Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey. *Astronomical Journal*, **2021**, 162, 302	4.9	3
7	Detecting the Figure Rotation of Dark Matter Halos with Tidal Streams. *Astrophysical Journal*, **2021**, 910, 150	4.7	2
6	Age-dating Red Giant Stars Associated with Galactic Disk and Halo Substructures. *Astrophysical Journal*, **2021**, 916, 88	4.7	2
5	Snails across Scales: Local and Global Phase-mixing Structures as Probes of the Past and Future Milky Way. *Astrophysical Journal*, **2022**, 928, 80	4.7	2

4	Chemodynamically Characterizing the Jhelum Stellar Stream with APOGEE-2. *Astrophysical Journal*, **2021**, 913, 39	4.7	1
3	SALSA: A Python Package for Constructing Synthetic Quasar Absorption Line Catalogs from Astrophysical Hydrodynamic Simulations. *Journal of Open Source Software*, **2020**, 5, 2581	5.2	0
2	New Views From Galactoseismology: Rethinking the Galactic Disk-Halo Connection. *Proceedings of the International Astronomical Union*, **2017**, 13, 185-188	0.1	
1	SurPyval: Survival Analysis with Python. *Journal of Open Source Software*, **2021**, 6, 3484	5.2	