

# Adrian M Price-Whelan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. <i>Astrophysical Journal, Supplement Series</i> , <b>2022</b> , 259, 35	8	24
74	Snails across Scales: Local and Global Phase-mixing Structures as Probes of the Past and Future Milky Way. <i>Astrophysical Journal</i> , <b>2022</b> , 928, 80	4.7	2
73	Stellar Abundance Maps of the Milky Way Disk. <i>Astrophysical Journal</i> , <b>2022</b> , 928, 23	4.7	3
72	Double-lined Spectroscopic Binaries in the APOGEE DR16 and DR17 Data. <i>Astronomical Journal</i> , <b>2021</b> , 162, 184	4.9	10
71	Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way. <i>Astrophysical Journal</i> , <b>2021</b> , 910, 17	4.7	4
70	Orbital and Stellar Parameters for 2M06464003+0109157: A Double-lined Eclipsing Binary of Spotted, Sub-solar Twins. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2021</b> , 133, 044201	5	3
69	Detecting the Figure Rotation of Dark Matter Halos with Tidal Streams. <i>Astrophysical Journal</i> , <b>2021</b> , 910, 150	4.7	2
68	Chemodynamically Characterizing the Jhelum Stellar Stream with APOGEE-2. <i>Astrophysical Journal</i> , <b>2021</b> , 913, 39	4.7	1
67	The Gas Content and Stripping of Local Group Dwarf Galaxies. <i>Astrophysical Journal</i> , <b>2021</b> , 913, 53	4.7	17
66	exoplanet: Gradient-based probabilistic inference for exoplanet data other astronomical time series. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 3285	5.2	28
65	TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up. <i>Astronomical Journal</i> , <b>2021</b> , 162, 54	4.9	4
64	Age-dating Red Giant Stars Associated with Galactic Disk and Halo Substructures. <i>Astrophysical Journal</i> , <b>2021</b> , 916, 88	4.7	2
63	SurPyval: Survival Analysis with Python. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 3484	5.2	
62	Selection Functions in Astronomical Data Modeling, with the Space Density of White Dwarfs as a Worked Example. <i>Astronomical Journal</i> , <b>2021</b> , 162, 142	4.9	6
61	Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Way's Dark Matter Halo Using Basis Function Expansions. <i>Astrophysical Journal</i> , <b>2021</b> , 919, 109	4.7	17
60	APOGEE Chemical Abundance Patterns of the Massive Milky Way Satellites. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 172	4.7	7
59	Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey. <i>Astronomical Journal</i> , <b>2021</b> , 162, 302	4.9	3

58	The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 140	4.7	4
57	Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey. <i>Astronomical Journal</i> , <b>2021</b> , 162, 303	4.9	4
56	Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color-Magnitude Diagram. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 2	4.7	44
55	Variations in the Width, Density, and Direction of the Palomar 5 Tidal Tails. <i>Astrophysical Journal</i> , <b>2020</b> , 889, 70	4.7	17
54	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 249, 3	8	363
53	No Massive Companion to the Coherent Radio-emitting M Dwarf GJ 1151. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 890, L19	7.9	6
52	High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 892, L37	7.9	22
51	Separatrix divergence of stellar streams in galactic potentials. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 501, 1791-1802	4.3	3
50	SunPy: A Python package for Solar Physics. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 1832	5.2	10
49	A Larger Extent for the Ophiuchus Stream. <i>Astronomical Journal</i> , <b>2020</b> , 159, 287	4.9	5
48	Exploring the Evolution of Stellar Rotation Using Galactic Kinematics. <i>Astronomical Journal</i> , <b>2020</b> , 160, 90	4.9	15
47	Discovery of Extended Tidal Tails around the Globular Cluster Palomar 13. <i>Astronomical Journal</i> , <b>2020</b> , 160, 244	4.9	7
46	SALSA: A Python Package for Constructing Synthetic Quasar Absorption Line Catalogs from Astrophysical Hydrodynamic Simulations. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2581	5.2	0
45	Metallicity and $\alpha$ -Element Abundance Gradients along the Sagittarius Stream as Seen by APOGEE. <i>Astrophysical Journal</i> , <b>2020</b> , 889, 63	4.7	30
44	The Close Binary Fraction as a Function of Stellar Parameters in APOGEE: A Strong Anti-Correlation With $\alpha$ -Abundances. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> ,	4.3	13
43	Hypervelocity Stars from a Supermassive Black Hole-Intermediate-mass Black Hole Binary. <i>Astrophysical Journal</i> , <b>2019</b> , 878, 17	4.7	13
42	Piercing the Milky Way: an all-sky view of the Orphan Stream. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 485, 4726-4742	4.3	56
41	The Spur and the Gap in GD-1: Dynamical Evidence for a Dark Substructure in the Milky Way Halo. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 38	4.7	67

40	Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 125	4.7	33
39	Multiple Components of the Jhelum Stellar Stream. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 881, L37	7.9	25
38	Multiple retrograde substructures in the Galactic halo: A shattered view of Galactic history. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 631, L9	5.1	73
37	Spectroscopy of the Young Stellar Association Price-Whelan 1: Origin in the Magellanic Leading Arm and Constraints on the Milky Way Hot Halo. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 115	4.7	8
36	Kinematics of the Palomar 5 Stellar Stream from RR Lyrae Stars. <i>Astronomical Journal</i> , <b>2019</b> , 158, 223	4.9	17
35	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?. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 19	4.7	13
34	A Disk Origin for the Monoceros Ring and A13 Stellar Overdensities. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 47	4.7	29
33	Kronos and Krios: Evidence for Accretion of a Massive, Rocky Planetary System in a Comoving Pair of Solar-type Stars. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 138	4.7	54
32	Two chemically similar stellar overdensities on opposite sides of the plane of the Galactic disk. <i>Nature</i> , <b>2018</b> , 555, 334-337	50.4	47
31	Disk-like Chemistry of the Triangulum-Andromeda Overdensity as Seen by APOGEE. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 859, L8	7.9	18
30	astroplan: An Open Source Observation Planning Package in Python. <i>Astronomical Journal</i> , <b>2018</b> , 155, 128	4.9	27
29	Binary Companions of Evolved Stars in APOGEE DR14: Search Method and Catalog of ~5000 Companions. <i>Astronomical Journal</i> , <b>2018</b> , 156, 18	4.9	1182
28	Tidal Features at 0.05 <i>Astrophysical Journal</i> , <b>2018</b> , 866, 103	4.7	23
27	Binary Companions of Evolved Stars in APOGEE DR14: Orbital Circularization. <i>Astrophysical Journal</i> , <b>2018</b> , 867, 5	4.7	19
26	Improving Gaia Parallax Precision with a Data-driven Model of Stars. <i>Astronomical Journal</i> , <b>2018</b> , 156, 145	4.9	17
25	Off the Beaten Path: Gaia Reveals GD-1 Stars outside of the Main Stream. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 863, L20	7.9	61
24	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package. <i>Astronomical Journal</i> , <b>2018</b> , 156, 123	4.9	2084
23	SMHASH: anatomy of the Orphan Stream using RR Lyrae stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 479, 570-587	4.3	12

22	The Joker: A Custom Monte Carlo Sampler for Binary-star and Exoplanet Radial Velocity Data. <i>Astrophysical Journal</i> , <b>2017</b> , 837, 20	4.7	78
21	Comoving Stars in Gaia DR1: An Abundance of Very Wide Separation Comoving Pairs. <i>Astronomical Journal</i> , <b>2017</b> , 153, 257	4.9	93
20	Disk Heating, Galactoseismology, and the Formation of Stellar Halos. <i>Galaxies</i> , <b>2017</b> , 5, 44	2	4
19	Gaps and length asymmetry in the stellar stream Palomar 5 as effects of Galactic bar rotation. <i>Nature Astronomy</i> , <b>2017</b> , 1, 633-639	12.1	54
18	Exploring Halo Substructure with Giant Stars. XV. Discovery of a Connection between the Monoceros Ring and the Triangulum-Andromeda Overdensity?. <i>Astrophysical Journal</i> , <b>2017</b> , 844, 74	4.7	28
17	A Probabilistic Approach to Fitting Period-Luminosity Relations and Validating Gaia Parallaxes. <i>Astrophysical Journal</i> , <b>2017</b> , 838, 107	4.7	37
16	New Views From Galactoseismology: Rethinking the Galactic Disk-Halo Connection. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 185-188	0.1	
15	schwimmbad: A uniform interface to parallel processing pools in Python. <i>Journal of Open Source Software</i> , <b>2017</b> , 2,	5.2	18
14	Gala: A Python package for galactic dynamics. <i>Journal of Open Source Software</i> , <b>2017</b> , 2, 388	5.2	90
13	EVIDENCE OF FANNING IN THE OPHIUCHUS STREAM. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 816, L4	7.9	8
12	SPENDING TOO MUCH TIME AT THE GALACTIC BAR: CHAOTIC FANNING OF THE OPHIUCHUS STREAM. <i>Astrophysical Journal</i> , <b>2016</b> , 824, 104	4.7	27
11	Chaotic dispersal of tidal debris. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 455, 1079-1098	4.3	40
10	TIDAL STREAM MORPHOLOGY AS AN INDICATOR OF DARK MATTER HALO GEOMETRY: THE CASE OF PALOMAR 5. <i>Astrophysical Journal</i> , <b>2015</b> , 799, 28	4.7	50
9	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 219, 12	8	1504
8	THE NATURE AND ORBIT OF THE OPHIUCHUS STREAM. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 59	4.7	23
7	A reinterpretation of the Triangulum-Andromeda stellar clouds: a population of halo stars kicked out of the Galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 452, 676-685	4.3	73
6	THE TENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III APACHE POINT OBSERVATORY GALACTIC EVOLUTION EXPERIMENT. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 211, 17	8	760
5	INFERRING THE GRAVITATIONAL POTENTIAL OF THE MILKY WAY WITH A FEW PRECISELY MEASURED STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 794, 4	4.7	37

4	SPITZER , GAIA , AND THE POTENTIAL OF THE MILKY WAY. <i>Astrophysical Journal Letters</i> , <b>2013</b> , 778, L12 7.9	23
3	Astropy: A community Python package for astronomy. <i>Astronomy and Astrophysics</i> , <b>2013</b> , 558, A33	5.1 5247
2	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. <i>Astronomical Journal</i> , <b>2011</b> , 142, 72	4.9 1438
1	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , <b>2011</b> , 193, 29	8 1063