

# Peter Plavchan

## List of Publications by Year in descending order

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93  
papers

5,231  
citations

117625

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95266

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94  
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docs citations

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times ranked

3901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of 13 Hot and Potentially Terrestrial TESS Planets. <i>Astronomical Journal</i> , 2022, 163, 99.	4.7	8
2	TOI-1842b: A Transiting Warm Saturn Undergoing Reinflation around an Evolving Subgiant. <i>Astronomical Journal</i> , 2022, 163, 82.	4.7	6
3	Flares, Rotation, and Planets of the AU Mic System from TESS Observations. <i>Astronomical Journal</i> , 2022, 163, 147.	4.7	28
4	Orbital Dynamics and the Evolution of Planetary Habitability in the AU Mic System. <i>Astronomical Journal</i> , 2022, 163, 20.	4.7	6
5	A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions. <i>Astronomical Journal</i> , 2022, 163, 207.	4.7	15
6	Spectral Line Depth Variability in Radial Velocity Spectra. <i>Astrophysical Journal</i> , 2022, 930, 121.	4.5	5
7	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
8	HD 83443c: A Highly Eccentric Giant Planet on a 22 yr Orbit. <i>Astronomical Journal</i> , 2022, 163, 273.	4.7	4
9	A Mini-Neptune from TESS and CHEOPS Around the 120 Myr Old AB Dor Member HIP 94235. <i>Astronomical Journal</i> , 2022, 163, 289.	4.7	11
10	The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246. <i>Astronomical Journal</i> , 2022, 163, 293.	4.7	7
11	Transit Timing Variations for AU Microscopii b and c. <i>Astronomical Journal</i> , 2022, 164, 27.	4.7	10
12	Asynchronous object-oriented approach to the automation of the 0.8-meter George Mason University campus telescope in Python. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.8	2
13	TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images. <i>Astronomical Journal</i> , 2021, 161, 194.	4.7	22
14	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021, 161, 235.	4.7	20
15	SpiKeS: Precision Warm Spitzer Photometry of the Kepler Field. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 11.	7.7	2
16	Weather on Other Worlds. V. The Three Most Rapidly Rotating Ultra-cool Dwarfs. <i>Astronomical Journal</i> , 2021, 161, 224.	4.7	30
17	NEMESIS: Exoplanet Transit Survey of Nearby M-dwarfs in TESS FFIs. I.. <i>Astronomical Journal</i> , 2021, 161, 247.	4.7	9
18	TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2782-2803.	4.4	19

#	ARTICLE	IF	CITATIONS
19	HD 183579b: a warm sub-Neptune transiting a solar twin detected by <i>TESS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2220-2240.	4.4	3
20	The Youngest Planet to Have a Spin-Orbit Alignment Measurement AU Mic b. <i>Astronomical Journal</i> , 2021, 162, 137.	4.7	19
21	The Magellan-TESS Survey. I. Survey Description and Midsurvey Results*. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 33.	7.7	19
22	TOI-954 b and K2-329 b: Short-period Saturn-mass Planets that Test whether Irradiation Leads to Inflation. <i>Astronomical Journal</i> , 2021, 161, 82.	4.7	8
23	Investigating the young AU Mic system with SPIRou: large-scale stellar magnetic field and close-in planet mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 188-205.	4.4	57
24	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3704-3722.	4.4	33
25	TOI-3362b: A Proto Hot Jupiter Undergoing High-eccentricity Tidal Migration. <i>Astrophysical Journal Letters</i> , 2021, 920, L16.	8.3	16
26	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. <i>Astronomical Journal</i> , 2021, 162, 295.	4.7	39
27	The <i>HD</i> 217107 planetary system: Twenty years of radial velocity measurements. <i>Astronomische Nachrichten</i> , 2020, 341, 870-878.	1.2	1
28	The dichotomy of atmospheric escape in AU Mic b. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 498, L53-L57.	3.3	26
29	Joint Radial Velocity and Direct Imaging Planet Yield Calculations. I. Self-consistent Planet Populations. <i>Astrophysical Journal</i> , 2020, 893, 122.	4.5	17
30	A planet within the debris disk around the pre-main-sequence star AU Microscopii. <i>Nature</i> , 2020, 582, 497-500.	27.8	145
31	Herschel Observations of Disks around Late-type Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 084401.	3.1	5
32	TOI-677b: A Warm Jupiter (P = 11.2 days) on an Eccentric Orbit Transiting a Late F-type Star. <i>Astronomical Journal</i> , 2020, 159, 145.	4.7	32
33	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	5.1	27
34	Toward Complete Characterization: Prospects for Directly Imaging Transiting Exoplanets. <i>Astronomical Journal</i> , 2020, 159, 286.	4.7	5
35	KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS*. <i>Astronomical Journal</i> , 2020, 160, 111.	4.7	26
36	The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System. <i>Astronomical Journal</i> , 2020, 160, 116.	4.7	67

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37	TOI-481 b and TOI-892 b: Two Long-period Hot Jupiters from the Transiting Exoplanet Survey Satellite. <i>Astronomical Journal</i> , 2020, 160, 235.	4.7	23
38	An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Suggestive of a Subsolar Water Abundance. <i>Astronomical Journal</i> , 2020, 160, 280.	4.7	21
39	Limits on the Spin-Orbit Angle and Atmospheric Escape for the 22 Myr Old Planet AU Mic b*. <i>Astrophysical Journal Letters</i> , 2020, 899, L13.	8.3	49
40	TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR 858. <i>Astrophysical Journal Letters</i> , 2019, 881, L19.	8.3	80
41	A Full Implementation of Spectro-perfectionism for Precise Radial Velocity Exoplanet Detection: A Test Case With the MINERVA Reduction Pipeline. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 124503.	3.1	5
42	The Revised TESS Input Catalog and Candidate Target List. <i>Astronomical Journal</i> , 2019, 158, 138.	4.7	577
43	Minerva-Australis. I. Design, Commissioning, and First Photometric Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 115003.	3.1	65
44	First Radial Velocity Results From the MINIature Exoplanet Radial Velocity Array (MINERVA). <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 115001.	3.1	10
45	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	4.7	72
46	Precise Radial Velocities of Cool Low-mass Stars with iSHELL. <i>Astronomical Journal</i> , 2019, 158, 170.	4.7	31
47	The KELT Follow-up Network and Transit False-positive Catalog: Pre-vetted False Positives for TESS. <i>Astronomical Journal</i> , 2018, 156, 234.	4.7	46
48	YSOVAR: Mid-infrared Variability among YSOs in the Star Formation Region Serpens South. <i>Astronomical Journal</i> , 2018, 155, 99.	4.7	16
49	The TESS Input Catalog and Candidate Target List. <i>Astronomical Journal</i> , 2018, 156, 102.	4.7	433
50	SPITZER IRAC SPARSELY SAMPLED PHASE CURVE OF THE EXOPLANET WASP-14B. <i>Astrophysical Journal</i> , 2016, 824, 27.	4.5	25
51	PHOTO-REVERBERATION MAPPING OF A PROTOPLANETARY ACCRETION DISK AROUND A T TAURI STAR. <i>Astrophysical Journal</i> , 2016, 823, 58.	4.5	10
52	Radial velocity planet detection biases at the stellar rotational period. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3565-3573.	4.4	81
53	Application of the Trend Filtering Algorithm for Photometric Time Series Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 084504.	3.1	2
54	A HIGH-PRECISION NEAR-INFRARED SURVEY FOR RADIAL VELOCITY VARIABLE LOW-MASS STARS USING CSHELL AND A METHANE GAS CELL. <i>Astrophysical Journal</i> , 2016, 822, 40.	4.5	225

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55	Precise Near-Infrared Radial Velocities. Proceedings of the International Astronomical Union, 2015, 10, 286-287.	0.0	0
56	Low-gravity L Dwarfs Are Likely More Variable. Proceedings of the International Astronomical Union, 2015, 10, 121-123.	0.0	0
57	YSOVAR: MID-INFRARED VARIABILITY IN NGC 1333. <i>Astronomical Journal</i> , 2015, 150, 175.	4.7	34
58	FOLLOW-UP OBSERVATIONS OF PTF0 8-8695: A 3 MYR OLD T TAURI STAR HOSTING A JUPITER-MASS PLANETARY CANDIDATE. <i>Astrophysical Journal</i> , 2015, 809, 42.	4.5	40
59	YSOVAR: MID-INFRARED VARIABILITY AMONG YSOs IN THE STAR FORMATION REGION GGD12-15. <i>Astronomical Journal</i> , 2015, 150, 145.	4.7	18
60	YSOVAR: MID-INFRARED VARIABILITY OF YOUNG STELLAR OBJECTS AND THEIR DISKS IN THE CLUSTER IRAS 20050+2720. <i>Astronomical Journal</i> , 2015, 150, 118.	4.7	19
61	Miniature Exoplanet Radial Velocity Array I: design, commissioning, and early photometric results. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2015, 1, 027002.	1.8	72
62	WEATHER ON OTHER WORLDS. II. SURVEY RESULTS: SPOTS ARE UBIQUITOUS ON L AND T DWARFS. <i>Astrophysical Journal</i> , 2015, 799, 154.	4.5	206
63	PLANETARY CANDIDATES OBSERVED BY <i>Kepler</i> . VI. PLANET SAMPLE FROM Q1â€“Q16 (47 MONTHS). <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 31.	7.7	234
64	CSI 2264: CHARACTERIZING YOUNG STARS IN NGC 2264 WITH SHORT-DURATION PERIODIC FLUX DIPS IN THEIR LIGHT CURVES. <i>Astronomical Journal</i> , 2015, 149, 130.	4.7	82
65	WHAT IS THE MASS OF $\alpha$ Cen B $b$ ? <i>Astrophysical Journal</i> , 2015, 805, 174.	4.5	26
66	MINERVA: SMALL PLANETS FROM SMALL TELESCOPES. <i>Publications of the Korean Astronomical Society</i> , 2015, 30, 665-669.	0.0	0
67	A MONITORING CAMPAIGN FOR LUHMAN 16AB. I. DETECTION OF RESOLVED NEAR-INFRARED SPECTROSCOPIC VARIABILITY. <i>Astrophysical Journal</i> , 2014, 785, 48.	4.5	45
68	CSI 2264: SIMULTANEOUS OPTICAL AND INFRARED LIGHT CURVES OF YOUNG DISK-BEARING STARS IN NGC 2264 WITH <i>CoRoT</i> and <i>Spitzer</i> â€”EVIDENCE FOR MULTIPLE ORIGINS OF VARIABILITY. <i>Astronomical Journal</i> , 2014, 147, 82.	4.7	307
69	PERIODIC AND APERIODIC VARIABILITY IN THE MOLECULAR CLOUD $\rho$ -OPHIUCHUS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 3.	7.7	42
70	CSI 2264: CHARACTERIZING ACCRETION-BURST DOMINATED LIGHT CURVES FOR YOUNG STARS IN NGC 2264. <i>Astronomical Journal</i> , 2014, 147, 83.	4.7	105
71	Large impacts around a solar-analog star in the era of terrestrial planet formation. <i>Science</i> , 2014, 345, 1032-1035.	12.6	83
72	Investigation of Kepler Objects of Interest Stellar Parameters from Observed Transit Durations. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 34-47.	3.1	55

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73	STARS DO NOT EAT THEIR YOUNG MIGRATING PLANETS: EMPIRICAL CONSTRAINTS ON PLANET MIGRATION HALTING MECHANISMS. <i>Astrophysical Journal</i> , 2013, 769, 86.	4.5	49
74	WEATHER ON OTHER WORLDS. I. DETECTION OF PERIODIC VARIABILITY IN THE L3 DWARF DENIS-P J1058.7-1548 WITH PRECISE MULTI-WAVELENGTH PHOTOMETRY. <i>Astrophysical Journal</i> , 2013, 767, 173.	4.5	52
75	PERIOD ERROR ESTIMATION FOR THE KEPLER ECLIPSING BINARY CATALOG. <i>Astronomical Journal</i> , 2013, 145, 148.	4.7	16
76	HUBBLE SPACE TELESCOPE OBSERVATIONS OF THE HD 202628 DEBRIS DISK. <i>Astronomical Journal</i> , 2012, 144, 45.	4.7	56
77	THE PTF ORION PROJECT: A POSSIBLE PLANET TRANSITING A T-TAURI STAR. <i>Astrophysical Journal</i> , 2012, 755, 42.	4.5	97
78	DIRECT DETECTION AND ORBITAL ANALYSIS OF THE EXOPLANETS HR 8799 bcd FROM ARCHIVAL 2005 KECK/NIRC2 DATA. <i>Astrophysical Journal Letters</i> , 2012, 755, L34.	8.3	67
79	KECK/NIRC2 IMAGING OF THE WARPED, ASYMMETRIC DEBRIS DISK AROUND HD 32297. <i>Astrophysical Journal</i> , 2012, 757, 28.	4.5	29
80	Design and Construction of Absorption Cells for Precision Radial Velocities in the K-Band Using Methane Isotopologues. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 586-597.	3.1	35
81	Potential Drivers of Mid-Infrared Variability in Young Stars: Testing Physical Models with Multiepoch Near-Infrared Spectra of YSOs in $\rho$ -Oph. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 1137-1158.	3.1	14
82	CHARACTERIZING THE VARIABILITY OF STARS WITH EARLY-RELEASE KEPLER DATA. <i>Astronomical Journal</i> , 2011, 141, 108.	4.7	134
83	THE PALOMAR TRANSIENT FACTORY ORION PROJECT: ECLIPSING BINARIES AND YOUNG STELLAR OBJECTS. <i>Astronomical Journal</i> , 2011, 142, 60.	4.7	36
84	DEEP NEAR-INFRARED IMAGING OF THE $\rho$ -Oph CLOUD CORE: CLUES TO THE ORIGIN OF THE LOWEST-MASS BROWN DWARFS. <i>Astrophysical Journal</i> , 2010, 719, 550-560.	4.5	32
85	A YOUNG PLANETARY-MASS OBJECT IN THE $\rho$ -OPH CLOUD CORE. <i>Astrophysical Journal Letters</i> , 2010, 709, L158-L162.	8.3	57
86	Accurate Coordinates and 2MASS Cross Identifications for (Almost) All Gliese Catalog Star. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 885-897.	3.1	22
87	The Application of Cloud Computing to Astronomy: A Study of Cost and Performance. , 2010, , .		42
88	THE LAST GASP OF GAS GIANT PLANET FORMATION: A SPITZER STUDY OF THE 5 Myr OLD CLUSTER NGC 2362. <i>Astrophysical Journal</i> , 2009, 698, 1-27.	4.5	147
89	NEW DEBRIS DISKS AROUND YOUNG, LOW-MASS STARS DISCOVERED WITH THE SPITZER SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2009, 698, 1068-1094.	4.5	160
90	The Peculiar Periodic YSO WL 4 in $\rho$ -Ophiuchus. <i>Astrophysical Journal</i> , 2008, 684, L37-L40.	4.5	55

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91	Near-Infrared Variability in the 2MASS Calibration Fields: A Search for Planetary Transit Candidates. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 191-228.	7.7	98
92	A <i>Spitzer</i> Study of Debris Disks in the Young Nearby Cluster NGC 2232: Icy Planets Are Common around $\sim 1.5 M_{\odot}$ Stars. <i>Astrophysical Journal</i> , 2008, 688, 597-615.	4.5	36
93	Where Are the M Dwarf Disks Older Than 10 Million Years?. <i>Astrophysical Journal</i> , 2005, 631, 1161-1169.	4.5	104