

# Jacqueline K Faherty

## List of Publications by Year in descending order

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121  
papers

5,758  
citations

76326

40  
h-index

85541

71  
g-index

121  
all docs

121  
docs citations

121  
times ranked

3232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of CWISE J052306.42+015355.4, an Extreme T Subdwarf Candidate. <i>Astronomical Journal</i> , 2022, 163, 47.	4.7	4
2	Let the Great World Spin: Revealing the Stormy, Turbulent Nature of Young Giant Exoplanet Analogs with the Spitzer Space Telescope. <i>Astrophysical Journal</i> , 2022, 924, 68.	4.5	28
3	Discovery of 16 New Members of the Solar Neighborhood Using Proper Motions from CatWISE2020. <i>Astronomical Journal</i> , 2022, 163, 116.	4.7	4
4	CWISE J014611.20+050850.0AB: The Widest Known Brown Dwarf Binary in the Field. <i>Astrophysical Journal Letters</i> , 2022, 926, L12.	8.3	5
5	Substellar Hyades Candidates from the UKIRT Hemisphere Survey. <i>Astronomical Journal</i> , 2022, 163, 242.	4.7	2
6	The Perkins INfrared Exosatellite Survey (PINES) I. Survey Overview, Reduction Pipeline, and Early Results. <i>Astronomical Journal</i> , 2022, 163, 253.	4.7	7
7	WDJ220838.73+454434.04: a White Dwarf Companion in the AR Lacertae System. <i>Research Notes of the AAS</i> , 2022, 6, 127.	0.7	1
8	Discovery of 34 Low-mass Comoving Systems Using NOIRLab Source Catalog DR2. <i>Astronomical Journal</i> , 2022, 164, 3.	4.7	5
9	The CatWISE2020 Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 8.	7.7	131
10	The Field Substellar Mass Function Based on the Full-sky 20 pc Census of 525 L, T, and Y Dwarfs. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 7.	7.7	87
11	Identification of a Low-mass Companion to the White Dwarf SDSS J131730.84+483332.7. <i>Research Notes of the AAS</i> , 2021, 5, 76.	0.7	4
12	Calibration of the H $\alpha$ Age-Activity Relation for M Dwarfs. <i>Astronomical Journal</i> , 2021, 161, 277.	4.7	29
13	Cloud busting: enstatite and quartz clouds in the atmosphere of 2M2224-0158. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1944-1961.	4.4	39
14	The Enigmatic Brown Dwarf WISEA J153429.75-104303.3 (a.k.a. "The Accident"). <i>Astrophysical Journal Letters</i> , 2021, 915, L6.	8.3	11
15	Identification of a White Dwarf Companion in the V* HP Dra System. <i>Research Notes of the AAS</i> , 2021, 5, 170.	0.7	0
16	New Candidate Extreme T Subdwarfs from the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal</i> , 2021, 915, 120.	4.5	17
17	Evaluating Rotation Periods of M Dwarfs across the Ages. <i>Astrophysical Journal</i> , 2021, 916, 77.	4.5	27
18	A Number of nearby Moving Groups May Be Fragments of Dissolving Open Clusters. <i>Astrophysical Journal Letters</i> , 2021, 915, L29.	8.3	28

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19	Discovery of a Low-mass Comoving System Using NOIRLab Source Catalog DR2. <i>Research Notes of the AAS</i> , 2021, 5, 196.	0.7	2
20	Backyard Worlds: Planet 9 Discovery of an Unusual Low-mass Companion to an M Dwarf at 80 pc. <i>Research Notes of the AAS</i> , 2021, 5, 18.	0.7	4
21	Ross 19B: An Extremely Cold Companion Discovered via the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal</i> , 2021, 921, 140.	4.5	9
22	Precise Masses and Orbits for Nine Radial-velocity Exoplanets. <i>Astronomical Journal</i> , 2021, 162, 266.	4.7	22
23	The Brown Dwarf Kinematics Project (BDKP). V. Radial and Rotational Velocities of T Dwarfs from Keck/NIRSPEC High-resolution Spectroscopy. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 45.	7.7	20
24	14 Her: A Likely Case of Planet-Planet Scattering. <i>Astrophysical Journal Letters</i> , 2021, 922, L43.	8.3	7
25	The First Retrieval of a Substellar Subdwarf: A Cloud-free SDSS J125637.13+022452.4. <i>Astrophysical Journal</i> , 2021, 923, 19.	4.5	14
26	A Wide Planetary Mass Companion Discovered through the Citizen Science Project Backyard Worlds: Planet 9. <i>Astrophysical Journal</i> , 2021, 923, 48.	4.5	9
27	Improved Infrared Photometry and a Preliminary Parallax Measurement for the Extremely Cold Brown Dwarf CWISEP J144606.62-231717.8. <i>Astrophysical Journal Letters</i> , 2020, 888, L19.	8.3	11
28	WISEA J083011.95+283716.0: A Missing Link Planetary-mass Object. <i>Astrophysical Journal</i> , 2020, 895, 145.	4.5	18
29	WISE 2150-7520AB: A Very Low-mass, Wide Comoving Brown Dwarf System Discovered through the Citizen Science Project Backyard Worlds: Planet 9*. <i>Astrophysical Journal</i> , 2020, 889, 176.	4.5	22
30	The CatWISE Preliminary Catalog: Motions from WISE and NEOWISE Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 69.	7.7	63
31	Observations of Disequilibrium CO Chemistry in the Coldest Brown Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 63.	4.7	42
32	Exploring the Evolution of Stellar Rotation Using Galactic Kinematics. <i>Astronomical Journal</i> , 2020, 160, 90.	4.7	34
33	Spitzer Variability Properties of Low-gravity L Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 38.	4.7	37
34	Discovery of a Nearby Young Brown Dwarf Disk. <i>Astronomical Journal</i> , 2020, 160, 156.	4.7	3
35	A Dynamical Mass of $70 \pm 5 M_{\text{Jup}}$ for Gliese 229B, the First T Dwarf. <i>Astronomical Journal</i> , 2020, 160, 196.	4.7	38
36	Expanding the Y Dwarf Census with Spitzer Follow-up of the Coldest CatWISE Solar Neighborhood Discoveries. <i>Astrophysical Journal</i> , 2020, 889, 74.	4.5	26

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37	WISEA J041451.67â€“585456.7 and WISEA J181006.18â€“101000.5: The First Extreme T-type Subdwarfs?. <i>Astrophysical Journal</i> , 2020, 898, 77.	4.5	24
38	Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal</i> , 2020, 899, 123.	4.5	28
39	The $\frac{1}{4}$ Tau Association: A 60 Myr Old Coeval Group at 150 pc from the Sun. <i>Astrophysical Journal</i> , 2020, 903, 96.	4.5	29
40	Retrieval of the d/sdL7+T7.5p Binary SDSS J1416+1348AB. <i>Astrophysical Journal</i> , 2020, 905, 46.	4.5	24
41	WISE J135501.90-825838.9 is a Nearby, Young, Extremely Low-mass Substellar Binary. <i>Research Notes of the AAS</i> , 2020, 4, 67.	0.7	2
42	The Low-mass Members of the Ursa Major Association. <i>Research Notes of the AAS</i> , 2020, 4, 92.	0.7	4
43	CWISEP J193518.59â€“154620.3: An Extremely Cold Brown Dwarf in the Solar Neighborhood Discovered with CatWISE. <i>Astrophysical Journal</i> , 2019, 881, 17.	4.5	17
44	Radial Velocities, Space Motions, and Nearby Young Moving Group Memberships of Eleven Candidate Young Brown Dwarfs<sup>âˆ—</sup>. <i>Astronomical Journal</i> , 2019, 157, 247.	4.7	7
45	Exploring the Age-dependent Properties of M and L Dwarfs Using Gaia and SDSS. <i>Astronomical Journal</i> , 2019, 157, 231.	4.7	44
46	Preliminary Trigonometric Parallaxes of 184 Late-T and Y Dwarfs and an Analysis of the Field Substellar Mass Function into the â€œPlanetaryâ€•Mass Regime. <i>Astrophysical Journal</i> , Supplement Series, 2019, 240, 19.	7.7	83
47	A 3 Gyr White Dwarf with Warm Dust Discovered via the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal Letters</i> , 2019, 872, L25.	8.3	28
48	The Ultracool SpeXtoscopic Survey. I. Volume-limited Spectroscopic Sample and Luminosity Function of M7âˆ—L5 Ultracool Dwarfs. <i>Astrophysical Journal</i> , 2019, 883, 205.	4.5	34
49	A Reanalysis of the Fundamental Parameters and Age of TRAPPIST-1*. <i>Astrophysical Journal</i> , 2019, 886, 131.	4.5	20
50	BANYAN. XI. The BANYAN Î£ Multivariate Bayesian Algorithm to Identify Members of Young Associations with 150 pc. <i>Astrophysical Journal</i> , 2018, 856, 23.	4.5	374
51	An L+T Spectral Binary with Possible AB Doradus Kinematics. <i>Astrophysical Journal</i> , 2018, 854, 101.	4.5	5
52	Banyan. X. Discovery of a Wide, Low-gravity L-type Companion to a Fast-rotating M3 Dwarf<sup>*</sup>. <i>Astrophysical Journal</i> , 2018, 852, 55.	4.5	6
53	2MASS J13243553+6358281 Is an Early T-type Planetary-mass Object in the AB Doradus Moving Group. <i>Astrophysical Journal Letters</i> , 2018, 854, L27.	8.3	25
54	Fundamental Properties of Co-moving Stars Observed by Gaia. <i>Astronomical Journal</i> , 2018, 155, 149.	4.7	27

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55	Understanding Fundamental Properties and Atmospheric Features of Subdwarfs via a Case Study of SDSS J125637.13â€“022452.4<sup>âˆ—</sup>. <i>Astrophysical Journal</i> , 2018, 864, 100.	4.5	9
56	An L Band Spectrum of the Coldest Brown Dwarf. <i>Astrophysical Journal</i> , 2018, 858, 97.	4.5	39
57	A Late-type L Dwarf at 11 pc Hiding in the Galactic Plane Characterized Using Gaia DR2. <i>Astrophysical Journal</i> , 2018, 868, 44.	4.5	11
58	Y Dwarf Trigonometric Parallaxes from the Spitzer Space Telescope. <i>Astrophysical Journal</i> , 2018, 867, 109.	4.5	25
59	New Y and T Dwarfs from <i>WISE</i> Identified by Methane Imaging. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 28.	7.7	19
60	Volans-Carina: A New 90 Myr Old Stellar Association at 85 pc. <i>Astrophysical Journal</i> , 2018, 865, 136.	4.5	28
61	A Young Ultramassive White Dwarf in the AB Doradus Moving Group. <i>Astrophysical Journal Letters</i> , 2018, 861, L13.	8.3	22
62	Spectral Properties of Brown Dwarfs and Unbound Planetary Mass Objects. , 2018, , 531-542.		1
63	BANYAN. XIII. A First Look at Nearby Young Associations with Gaia Data Release 2. <i>Astrophysical Journal</i> , 2018, 862, 138.	4.5	94
64	Discovery of a Possible Early-T Thick-disk Subdwarf from the AllWISE2 Motion Survey*. <i>Astronomical Journal</i> , 2018, 155, 87.	4.7	4
65	Spectral Properties of Brown Dwarfs and Unbound Planetary Mass Objects. , 2018, , 1-12.		0
66	Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from HST and Spitzer Phase Curve Observations. <i>Astronomical Journal</i> , 2018, 156, 17.	4.7	156
67	New and Known Moving Groups and Clusters Identified in a Gaia Comoving Catalog. <i>Astrophysical Journal</i> , 2018, 863, 91.	4.5	42
68	BANYAN. XII. New Members of Nearby Young Associations from GAIAâ€“Tycho Data. <i>Astrophysical Journal</i> , 2018, 860, 43.	4.5	49
69	A Pre-Gaia DR2 Survey for Nearby M Dwarfs in Young Associations. <i>Research Notes of the AAS</i> , 2018, 2, 9.	0.7	26
70	A Gaia DR2 Confirmation that 2MASS J12074836â€“3900043 is a Member of the TW HYA Association. <i>Research Notes of the AAS</i> , 2018, 2, 17.	0.7	2
71	A Secure W2 Detection of WD 0806-661B from CatWISE. <i>Research Notes of the AAS</i> , 2018, 2, 140.	0.7	2
72	Discovery of a K5+T4.5 Binary System. <i>Research Notes of the AAS</i> , 2018, 2, 207.	0.7	1

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73	LACEwing: A New Moving Group Analysis Code. <i>Astronomical Journal</i> , 2017, 153, 95.	4.7	69
74	BANYAN. IX. The Initial Mass Function and Planetary-mass Object Space Density of the TW HYA Association. <i>Astrophysical Journal, Supplement Series</i> , 2017, 228, 18.	7.7	85
75	SIMP J013656.5+093347 Is Likely a Planetary-mass Object in the Carina-Near Moving Group. <i>Astrophysical Journal Letters</i> , 2017, 841, L1.	8.3	55
76	The First Brown Dwarf Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal Letters</i> , 2017, 841, L19.	8.3	59
77	A Survey for Planetary-mass Brown Dwarfs in the Chamaeleon I Star-forming Region. <i>Astronomical Journal</i> , 2017, 154, 46.	4.7	42
78	CHARACTERIZATION OF THE VERY-LOW-MASS SECONDARY IN THE GJ 660.1AB SYSTEM. <i>Astronomical Journal</i> , 2016, 151, 46.	4.7	21
79	BANYAN. VIII. NEW LOW-MASS STARS AND BROWN DWARFS WITH CANDIDATE CIRCUMSTELLAR DISKS. <i>Astrophysical Journal</i> , 2016, 832, 50.	4.5	29
80	NEW PARALLAXES AND A CONVERGENCE ANALYSIS FOR THE TW Hya ASSOCIATION. <i>Astrophysical Journal</i> , 2016, 833, 95.	4.5	37
81	THE FIRST BROWN DWARF/PLANETARY-MASS OBJECT IN THE 32 ORIONIS GROUP*. <i>Astrophysical Journal</i> , 2016, 820, 32.	4.5	38
82	THE FIRST SPECTRUM OF THE COLDEST BROWN DWARF. <i>Astrophysical Journal Letters</i> , 2016, 826, L17.	8.3	46
83	POPULATION PROPERTIES OF BROWN DWARF ANALOGS TO EXOPLANETS*. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 10.	7.7	213
84	SEARCHING FOR BINARY Y DWARFS WITH THE GEMINI MULTI-CONJUGATE ADAPTIVE OPTICS SYSTEM (GeMS). <i>Astrophysical Journal</i> , 2016, 819, 17.	4.5	19
85	THE NEAREST ISOLATED MEMBER OF THE TW HYDRAE ASSOCIATION IS A GIANT PLANET ANALOG. <i>Astrophysical Journal Letters</i> , 2016, 821, L15.	8.3	38
86	THE ALLWISE MOTION SURVEY, PART 2. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 36.	7.7	70
87	A Molecular Disk Survey of Low-Mass Stars in the TW Hya Association. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 207-208.	0.0	0
88	The BANYAN All-Sky Survey for Brown Dwarf Members of Young Moving Groups. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 49-53.	0.0	0
89	FUNDAMENTAL PARAMETERS AND SPECTRAL ENERGY DISTRIBUTIONS OF YOUNG AND FIELD AGE OBJECTS WITH MASSES SPANNING THE STELLAR TO PLANETARY REGIME. <i>Astrophysical Journal</i> , 2015, 810, 158.	4.5	272
90	BANYAN. VII. A NEW POPULATION OF YOUNG SUBSTELLAR CANDIDATE MEMBERS OF NEARBY MOVING GROUPS FROM THE BASS SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 33.	7.7	156

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91	SDSS J111010.01+011613.1: A NEW PLANETARY-MASS T DWARF MEMBER OF THE AB DORADUS MOVING GROUP. <i>Astrophysical Journal Letters</i> , 2015, 808, L20.	8.3	60
92	WISEP J004701.06+680352.1: AN INTERMEDIATE SURFACE GRAVITY, DUSTY BROWN DWARF IN THE AB DOR MOVING GROUP. <i>Astrophysical Journal</i> , 2015, 799, 203.	4.5	54
93	BANYAN. VI. DISCOVERY OF A COMPANION AT THE BROWN DWARF/PLANET-MASS LIMIT TO A TUCANA "HOROLOGIUM M DWARF. <i>Astrophysical Journal</i> , 2015, 806, 254.	4.5	54
94	An ALMA survey for disks orbiting low-mass stars in the TW Hya Association. <i>Astronomy and Astrophysics</i> , 2015, 582, L5.	5.1	21
95	A dusty M5 binary in the $\rho$ Pictoris moving group. <i>Astronomy and Astrophysics</i> , 2014, 567, A20.	5.1	14
96	THE COOLEST ISOLATED BROWN DWARF CANDIDATE MEMBER OF TWA. <i>Astrophysical Journal Letters</i> , 2014, 785, L14.	8.3	36
97	INDICATIONS OF WATER CLOUDS IN THE COLDEST KNOWN BROWN DWARF. <i>Astrophysical Journal Letters</i> , 2014, 793, L16.	8.3	33
98	DISCOVERY OF THE YOUNG L DWARF WISE J174102.78 " 464225.5. <i>Astronomical Journal</i> , 2014, 147, 34.	4.7	75
99	SIGNATURES OF CLOUD, TEMPERATURE, AND GRAVITY FROM SPECTRA OF THE CLOSEST BROWN DWARFS. <i>Astrophysical Journal</i> , 2014, 790, 90.	4.5	52
100	THE LUMINOSITIES OF THE COLDEST BROWN DWARFS. <i>Astrophysical Journal</i> , 2014, 796, 39.	4.5	76
101	THE ALLWISE MOTION SURVEY AND THE QUEST FOR COLD SUBDWARFS. <i>Astrophysical Journal</i> , 2014, 783, 122.	4.5	118
102	THE $\rho$ ANDROMEDAE SYSTEM: NEW CONSTRAINTS ON THE COMPANION MASS, SYSTEM AGE, AND FURTHER MULTIPLICITY. <i>Astrophysical Journal</i> , 2013, 779, 153.	4.5	79
103	THE GALEX NEARBY YOUNG-STAR SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 101.	4.5	89
104	2MASS J035523.37+113343.7: A YOUNG, DUSTY, NEARBY, ISOLATED BROWN DWARF RESEMBLING A GIANT EXOPLANET. <i>Astronomical Journal</i> , 2013, 145, 2.	4.7	128
105	DISCOVERY OF THE Y1 DWARF WISE J064723.23 " 623235.5. <i>Astrophysical Journal</i> , 2013, 776, 128.	4.5	37
106	Young Brown Dwarfs as Giant Exoplanet Analogs. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 36-37.	0.0	0
107	Nearby M, L, and T Dwarfs Discovered by the <i>Wide-field Infrared Survey Explorer</i> ( <i>WISE</i> ). <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 809-837.	3.1	59
108	DISCOVERY OF TWO VERY WIDE BINARIES WITH ULTRACOOL COMPANIONS AND A NEW BROWN DWARF AT THE L/T TRANSITION. <i>Astronomical Journal</i> , 2012, 144, 180.	4.7	17

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109	DISCOVERY OF AN UNUSUALLY RED L-TYPE BROWN DWARF. <i>Astronomical Journal</i> , 2012, 144, 94.	4.7	73
110	LOW-MASS TERTIARY COMPANIONS TO SPECTROSCOPIC BINARIES. I. COMMON PROPER MOTION SURVEY FOR WIDE COMPANIONS USING 2MASS. <i>Astronomical Journal</i> , 2012, 144, 62.	4.7	216
111	THE BROWN DWARF KINEMATICS PROJECT (BDKP). III. PARALLAXES FOR 70 ULTRACOOOL DWARFS. <i>Astrophysical Journal</i> , 2012, 752, 56.	4.5	225
112	WISE J163940.83â€“684738.6: A Y DWARF IDENTIFIED BY METHANE IMAGING. <i>Astrophysical Journal</i> , 2012, 759, 60.	4.5	52
113	IDENTIFICATION OF A WIDE, LOW-MASS MULTIPLE SYSTEM CONTAINING THE BROWN DWARF 2MASS J0850359+105716. <i>Astronomical Journal</i> , 2011, 141, 71.	4.7	33
114	WISEP J180026.60+013453.1: A NEARBY LATE-L DWARF NEAR THE GALACTIC PLANE. <i>Astronomical Journal</i> , 2011, 142, 171.	4.7	20
115	THE ENIGMATIC YOUNG, LOW-MASS VARIABLE TWA 30. <i>Astrophysical Journal</i> , 2010, 714, 45-67.	4.5	63
116	THE LOWEST-MASS MEMBER OF THE Î² PICTORIS MOVING GROUP. <i>Astrophysical Journal Letters</i> , 2010, 715, L165-L170.	8.3	49
117	SpeX SPECTROSCOPY OF UNRESOLVED VERY LOW MASS BINARIES. I. IDENTIFICATION OF 17 CANDIDATE BINARIES STRADDLING THE L DWARF/T DWARF TRANSITION. <i>Astrophysical Journal</i> , 2010, 710, 1142-1169.	4.5	209
118	THE BROWN DWARF KINEMATICS PROJECT. II. DETAILS ON NINE WIDE COMMON PROPER MOTION VERY LOW MASS COMPANIONS TO NEARBY STARS,. <i>Astronomical Journal</i> , 2010, 139, 176-194.	4.7	95
119	A WIDELY SEPARATED, HIGHLY OCCLUDED COMPANION TO THE NEARBY LOW-MASS T TAURI STAR TWA 30. <i>Astronomical Journal</i> , 2010, 140, 1486-1499.	4.7	75
120	2MASS J06164006â€“6407194: THE FIRST OUTER HALO L SUBDWARF. <i>Astrophysical Journal</i> , 2009, 696, 986-993.	4.5	39
121	THE BROWN DWARF KINEMATICS PROJECT I. PROPER MOTIONS AND TANGENTIAL VELOCITIES FOR A LARGE SAMPLE OF LATE-TYPE M, L, AND T DWARFS. <i>Astronomical Journal</i> , 2009, 137, 1-18.	4.7	237