

Jacob Bean

List of Publications by Year in descending order

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107
papers

11,899
citations

38742

50
h-index

30922

102
g-index

109
all docs

109
docs citations

109
times ranked

5290
citing authors

#	ARTICLE	IF	CITATIONS
1	Transiting Exoplanet Survey Satellite. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2014, 1, 014003.	1.8	2,300
2	Clouds in the atmosphere of the super-Earth exoplanet GJ 1214b. <i>Nature</i> , 2014, 505, 69-72.	27.8	688
3	The Revised TESS Input Catalog and Candidate Target List. <i>Astronomical Journal</i> , 2019, 158, 138.	4.7	577
4	Transiting Exoplanet Survey Satellite (TESS). <i>Proceedings of SPIE</i> , 2014, , .	0.8	566
5	A ground-based transmission spectrum of the super-Earth exoplanet GJ 1214b. <i>Nature</i> , 2010, 468, 669-672.	27.8	320
6	A Framework for Prioritizing the <i>TESS</i> Planetary Candidates Most Amenable to Atmospheric Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114401.	3.1	314
7	A PRECISE WATER ABUNDANCE MEASUREMENT FOR THE HOT JUPITER WASP-43b. <i>Astrophysical Journal Letters</i> , 2014, 793, L27.	8.3	297
8	Thermal structure of an exoplanet atmosphere from phase-resolved emission spectroscopy. <i>Science</i> , 2014, 346, 838-841.	12.6	266
9	State of the Field: Extreme Precision Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 066001.	3.1	253
10	Observations of Transiting Exoplanets with the James Webb Space Telescope (<i>JWST</i>). <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 1134-1173.	3.1	245
11	From thermal dissociation to condensation in the atmospheres of ultra hot Jupiters: WASP-121b in context. <i>Astronomy and Astrophysics</i> , 2018, 617, A110.	5.1	230
12	H^α Opacity and Water Dissociation in the Dayside Atmosphere of the Very Hot Gas Giant WASP-18b. <i>Astrophysical Journal Letters</i> , 2018, 855, L30.	8.3	217
13	A DETECTION OF WATER IN THE TRANSMISSION SPECTRUM OF THE HOT JUPITER WASP-12b AND IMPLICATIONS FOR ITS ATMOSPHERIC COMPOSITION. <i>Astrophysical Journal</i> , 2015, 814, 66.	4.5	212
14	THE OPTICAL AND NEAR-INFRARED TRANSMISSION SPECTRUM OF THE SUPER-EARTH GJ 1214b: FURTHER EVIDENCE FOR A METAL-RICH ATMOSPHERE. <i>Astrophysical Journal</i> , 2011, 743, 92.	4.5	190
15	The TESS Objects of Interest Catalog from the TESS Prime Mission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 39.	7.7	190
16	eleanor: An Open-source Tool for Extracting Light Curves from the <i>TESS</i> Full-frame Images. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 094502.	3.1	167
17	<i>HUBBLE SPACE TELESCOPE</i> NEAR-IR TRANSMISSION SPECTROSCOPY OF THE SUPER-EARTH HD 97658B. <i>Astrophysical Journal</i> , 2014, 794, 155.	4.5	164
18	<i>SPITZER</i> PHASE CURVE CONSTRAINTS FOR WASP-43b AT 3.6 AND 4.5 μm. <i>Astronomical Journal</i> , 2017, 153, 68.	4.7	157

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19	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
20	TRANSMISSION SPECTROSCOPY OF THE HOT JUPITER WASP-12b FROM 0.7 TO 5 μ m. <i>Astronomical Journal</i> , 2014, 147, 161.	4.7	154
21	TESS Discovery of a Transiting Super-Earth in the pi Mensae System. <i>Astrophysical Journal Letters</i> , 2018, 868, L39.	8.3	148
22	NO THERMAL INVERSION AND A SOLAR WATER ABUNDANCE FOR THE HOT JUPITER HD 209458B FROM HST/WFC3 SPECTROSCOPY. <i>Astronomical Journal</i> , 2016, 152, 203.	4.7	144
23	THE GJ1214 SUPER-EARTH SYSTEM: STELLAR VARIABILITY, NEW TRANSITS, AND A SEARCH FOR ADDITIONAL PLANETS. <i>Astrophysical Journal</i> , 2011, 736, 12.	4.5	140
24	THE CRIRES SEARCH FOR PLANETS AROUND THE LOWEST-MASS STARS. I. HIGH-PRECISION NEAR-INFRARED RADIAL VELOCITIES WITH AN AMMONIA GAS CELL. <i>Astrophysical Journal</i> , 2010, 713, 410-422.	4.5	139
25	DECIPHERING THE ATMOSPHERIC COMPOSITION OF WASP-12b: A COMPREHENSIVE ANALYSIS OF ITS DAYSIDE EMISSION. <i>Astrophysical Journal</i> , 2014, 791, 36.	4.5	128
26	HELIOS: AN OPEN-SOURCE, GPU-ACCELERATED RADIATIVE TRANSFER CODE FOR SELF-CONSISTENT EXOPLANETARY ATMOSPHERES. <i>Astronomical Journal</i> , 2017, 153, 56.	4.7	128
27	NEW ANALYSIS INDICATES NO THERMAL INVERSION IN THE ATMOSPHERE OF HD 209458b. <i>Astrophysical Journal</i> , 2014, 796, 66.	4.5	120
28	The Chemical Homogeneity of Sun-like Stars in the Solar Neighborhood. <i>Astrophysical Journal</i> , 2018, 865, 68.	4.5	118
29	THE ATMOSPHERIC CIRCULATION OF THE HOT JUPITER WASP-43b: COMPARING THREE-DIMENSIONAL MODELS TO SPECTROPHOTOMETRIC DATA. <i>Astrophysical Journal</i> , 2015, 801, 86.	4.5	116
30	THE IMPACT OF NON-UNIFORM THERMAL STRUCTURE ON THE INTERPRETATION OF EXOPLANET EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2016, 829, 52.	4.5	113
31	A Framework to Combine Low- and High-resolution Spectroscopy for the Atmospheres of Transiting Exoplanets. <i>Astrophysical Journal Letters</i> , 2017, 839, L2.	8.3	108
32	TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844. <i>Astrophysical Journal Letters</i> , 2019, 871, L24.	8.3	108
33	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i>. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
34	Transiting Exoplanet Studies and Community Targets for <i>JWST</i>'s Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 094401.	3.1	98
35	A SEARCH FOR WATER IN THE ATMOSPHERE OF HAT-P-26b USING LDSS-3C. <i>Astrophysical Journal</i> , 2016, 817, 141.	4.5	86
36	The Solar Twin Planet Search. <i>Astronomy and Astrophysics</i> , 2016, 590, A32.	5.1	86

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37	A super-Earth and two sub-Neptunes transiting the nearby and quiet M dwarf TOI-270. <i>Nature Astronomy</i> , 2019, 3, 1099-1108.	10.1	84
38	A solar C/O and sub-solar metallicity in a hot Jupiter atmosphere. <i>Nature</i> , 2021, 598, 580-584.	27.8	82
39	GROUND-BASED TRANSIT SPECTROSCOPY OF THE HOT-JUPITER WASP-19b IN THE NEAR-INFRARED. <i>Astrophysical Journal</i> , 2013, 771, 108.	4.5	80
40	A Statistical Comparative Planetology Approach to the Hunt for Habitable Exoplanets and Life Beyond the Solar System. <i>Astrophysical Journal Letters</i> , 2017, 841, L24.	8.3	80
41	STELLAR CHEMICAL ABUNDANCES: IN PURSUIT OF THE HIGHEST ACHIEVABLE PRECISION. <i>Astrophysical Journal</i> , 2014, 795, 23.	4.5	77
42	Detection of Helium in the Atmosphere of the Exo-Neptune HAT-P-11b. <i>Astrophysical Journal Letters</i> , 2018, 868, L34.	8.3	73
43	Climate of an ultra hot Jupiter. <i>Astronomy and Astrophysics</i> , 2019, 625, A136.	5.1	71
44	An HST/WFC3 Thermal Emission Spectrum of the Hot Jupiter HAT-P-7b. <i>Astronomical Journal</i> , 2018, 156, 10.	4.7	70
45	The Solar Twin Planet Search. <i>Astronomy and Astrophysics</i> , 2018, 619, A73.	5.1	66
46	Flare Statistics for Young Stars from a Convolutional Neural Network Analysis of TESS Data. <i>Astronomical Journal</i> , 2020, 160, 219.	4.7	66
47	The Nature and Origins of Sub-Neptune Size Planets. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006639.	3.6	65
48	Gemini/GMOS Transmission Spectral Survey: Complete Optical Transmission Spectrum of the Hot Jupiter WASP-4b. <i>Astronomical Journal</i> , 2017, 154, 95.	4.7	59
49	The temporal evolution of neutron-capture elements in the Galactic discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	58
50	Evidence for H ₂ Dissociation and Recombination Heat Transport in the Atmosphere of KELT-9b. <i>Astrophysical Journal Letters</i> , 2020, 888, L15.	8.3	57
51	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. <i>Astrophysical Journal</i> , 2020, 890, 176.	4.5	53
52	Clouds in Three-dimensional Models of Hot Jupiters over a Wide Range of Temperatures. I. Thermal Structures and Broadband Phase-curve Predictions. <i>Astrophysical Journal</i> , 2021, 908, 101.	4.5	51
53	Simulated JWST/NIRISS Transit Spectroscopy of Anticipated TESS Planets Compared to Select Discoveries from Space-based and Ground-based Surveys. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 044401.	3.1	50
54	Identifying Candidate Atmospheres on Rocky M Dwarf Planets via Eclipse Photometry. <i>Astrophysical Journal</i> , 2019, 886, 140.	4.5	46

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55	A transition between the hot and the ultra-hot Jupiter atmospheres. <i>Astronomy and Astrophysics</i> , 2020, 639, A36.	5.1	45
56	Exploring the Atmospheric Dynamics of the Extreme Ultrahot Jupiter KELT-9b Using TESS Photometry. <i>Astronomical Journal</i> , 2020, 160, 88.	4.7	44
57	Nondetection of Helium in the Upper Atmospheres of Three Sub-Neptune Exoplanets. <i>Astronomical Journal</i> , 2020, 160, 258.	4.7	44
58	An Observational Diagnostic for Distinguishing between Clouds and Haze in Hot Exoplanet Atmospheres. <i>Astrophysical Journal Letters</i> , 2017, 845, L20.	8.3	43
59	The Solar Twin Planet Search. <i>Astronomy and Astrophysics</i> , 2016, 592, A156.	5.1	42
60	Kepler-11 is a Solar Twin: Revising the Masses and Radii of Benchmark Planets via Precise Stellar Characterization. <i>Astrophysical Journal</i> , 2017, 839, 94.	4.5	41
61	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. <i>Science</i> , 2021, 371, 1038-1041.	12.6	41
62	A unique hot Jupiter spectral sequence with evidence for compositional diversity. <i>Nature Astronomy</i> , 2021, 5, 1224-1232.	10.1	40
63	The Li- ^α age correlation: the Sun is unusually Li deficient for its age. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4052-4059.	4.4	39
64	A HUBBLE SPACE TELESCOPE SEARCH FOR A SUB-EARTH-SIZED EXOPLANET IN THE GJ 436 SYSTEM. <i>Astrophysical Journal</i> , 2014, 796, 32.	4.5	37
65	Identifying Atmospheres on Rocky Exoplanets through Inferred High Albedo. <i>Astrophysical Journal</i> , 2019, 886, 141.	4.5	37
66	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. <i>Astronomical Journal</i> , 2019, 158, 244.	4.7	37
67	The Solar Twin Planet Search. <i>Astronomy and Astrophysics</i> , 2017, 597, A34.	5.1	36
68	Constraining the evolution of stellar rotation using solar twins. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 485, L68-L72.	3.3	32
69	MAROOON-X: a radial velocity spectrograph for the Gemini Observatory. , 2018, , .		31
70	Analyzing Atmospheric Temperature Profiles and Spectra of M Dwarf Rocky Planets. <i>Astrophysical Journal</i> , 2019, 886, 142.	4.5	30
71	Development and construction of MAROOON-X. <i>Proceedings of SPIE</i> , 2016, , .	0.8	28
72	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. <i>Astrophysical Journal</i> , 2019, 885, 31.	4.5	28

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73	A comprehensive reanalysis of <i>Spitzer</i> 4.5 μm phase curves, and the phase variations of the ultra-hot Jupiters MASCARA-1b and KELT-16b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3316-3337.	4.4	28
74	<i>Spitzer</i> Phase-curve Observations and Circulation Models of the Inflated Ultrahot Jupiter WASP-76b. <i>Astronomical Journal</i> , 2021, 162, 158.	4.7	27
75	The Solar Twin Planet Search. <i>Astronomy and Astrophysics</i> , 2015, 581, A34.	5.1	25
76	Community Targets of <i>JWST</i> 's Early Release Science Program: Evaluation of WASP-63b. <i>Astronomical Journal</i> , 2018, 156, 103.	4.7	25
77	Evidence for disequilibrium chemistry from vertical mixing in hot Jupiter atmospheres. <i>Astronomy and Astrophysics</i> , 2021, 648, A127.	5.1	24
78	A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds. <i>Astronomical Journal</i> , 2022, 163, 168.	4.7	23
79	Transits of Known Planets Orbiting a Naked-eye Star. <i>Astronomical Journal</i> , 2020, 160, 129.	4.7	22
80	Confirmation of Iron Emission Lines and Nondetection of TiO on the Dayside of KELT-9b with MAROON-X. <i>Astrophysical Journal Letters</i> , 2021, 921, L18.	8.3	22
81	No Umbrella Needed: Confronting the Hypothesis of Iron Rain on WASP-76b with Post-processed General Circulation Models. <i>Astrophysical Journal</i> , 2022, 926, 85.	4.5	22
82	Predicted Yield of Transits of Known Radial Velocity Exoplanets from the <i>TESS</i> Primary and Extended Missions. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 034401.	3.1	20
83	Thorium in solar twins: implications for habitability in rocky planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1690-1700.	4.4	20
84	Science Extraction from <i>TESS</i> Observations of Known Exoplanet Hosts. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 014402.	3.1	19
85	On-sky commissioning of MAROON-X: a new precision radial velocity spectrograph for Gemini North. , 2020, , .		19
86	H-alpha and Ca ii Infrared Triplet Variations During a Transit of the 23 Myr Planet V1298 Tau c. <i>Astronomical Journal</i> , 2021, 162, 213.	4.7	18
87	Strong H ₂ O and CO Emission Features in the Spectrum of KELT-20b Driven by Stellar UV Irradiation. <i>Astrophysical Journal Letters</i> , 2022, 925, L3.	8.3	16
88	Constraining Exoplanet Metallicities and Aerosols with the Contribution to ARIEL Spectroscopy of Exoplanets (CASE). <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 094401.	3.1	15
89	Carbon, isotopic ratio ¹² C/ ¹³ C, and nitrogen in solar twins: constraints for the chemical evolution of the local disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2196-2213.	4.4	15
90	Spectroscopic binaries in the Solar Twin Planet Search program: from substellar mass to M dwarf companions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 3425-3436.	4.4	13

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91	The Dark World: A Tale of WASP-43b in Reflected Light with HST WFC3/UVIS. <i>Astronomical Journal</i> , 2021, 161, 269.	4.7	13
92	Smaller than Expected Bright-spot Offsets in Spitzer Phase Curves of the Hot Jupiter Qatar-1b. <i>Astronomical Journal</i> , 2020, 159, 225.	4.7	13
93	Rubidium-traced white-light etalon calibrator for radial velocity measurements at the cm λ^{-1} level. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2017, 3, 025003.	1.8	12
94	Ground-based optical transmission spectrum of the hot Jupiter HAT-P-1b. <i>Astronomy and Astrophysics</i> , 2019, 631, A169.	5.1	12
95	TOI 122b and TOI 237b: Two Small Warm Planets Orbiting Inactive M Dwarfs Found by TESS. <i>Astronomical Journal</i> , 2021, 161, 13.	4.7	12
96	Confirmation of Water Absorption in the Thermal Emission Spectrum of the Hot Jupiter WASP-77Ab with HST/WFC3. <i>Astronomical Journal</i> , 2022, 163, 261.	4.7	11
97	A New Analysis of Eight Spitzer Phase Curves and Hot Jupiter Population Trends: Qatar-1b, Qatar-2b, WASP-52b, WASP-34b, and WASP-140b. <i>Astronomical Journal</i> , 2022, 163, 256.	4.7	10
98	The Volatile Carbon-to-oxygen Ratio as a Tracer for the Formation Locations of Interstellar Comets. <i>Planetary Science Journal</i> , 2022, 3, 150.	3.6	10
99	Assessing the Transiting Exoplanet Survey Satellite's Yield of Rocky Planets Around Nearby M Dwarfs. <i>Astronomical Journal</i> , 2022, 163, 255.	4.7	8
100	A new method to measure the spectra of transiting exoplanet atmospheres using multi-object spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3236-3265.	4.4	5
101	Quantifying the Impact of Spectral Coverage on the Retrieval of Molecular Abundances from Exoplanet Transmission Spectra. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 104402.	3.1	4
102	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
103	HD 183579b: a warm sub-Neptune transiting a solar twin detected by TESS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2220-2240.	4.4	3
104	H α Variability of V1298 Tau c. <i>Research Notes of the AAS</i> , 2021, 5, 195.	0.7	1
105	A new method to correct for host star variability in multi-epoch observations of exoplanet transmission spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	1
106	On the Current State of Ground-based Transmission Spectroscopy of Planet Atmospheres. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 315-318.	0.0	0
107	Full gradient solution to adaptive hybrid control. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	0