

Vanessa P Bailey

List of Publications by Year in descending order

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103
papers

4,545
citations

117625

34
h-index

123424

61
g-index

104
all docs

104
docs citations

104
times ranked

2831
citing authors

#	ARTICLE	IF	CITATIONS
1	THE FIRST HUNDRED BROWN DWARFS DISCOVERED BY THE <i>WIDE-FIELD INFRARED SURVEY EXPLORER</i> (<i>WISE</i>). <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 19.	7.7	317
2	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	4.7	270
3	Accreting protoplanets in the LkCa 15 transition disk. <i>Nature</i> , 2015, 527, 342-344.	27.8	249
4	197 CANDIDATES AND 104 VALIDATED PLANETS IN K2'S FIRST FIVE FIELDS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 226, 7.	7.7	177
5	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 $\hat{1}/4$ m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012, 753, 14.	4.5	152
6	HD 106906 b: A PLANETARY-MASS COMPANION OUTSIDE A MASSIVE DEBRIS DISK. <i>Astrophysical Journal Letters</i> , 2014, 780, L4.	8.3	143
7	DISCOVERY OF H $\hat{1}\pm$ EMISSION FROM THE CLOSE COMPANION INSIDE THE GAP OF TRANSITIONAL DISK HD 142527. <i>Astrophysical Journal Letters</i> , 2014, 781, L30.	8.3	114
8	DIRECTLY IMAGED L-T TRANSITION EXOPLANETS IN THE MID-INFRARED. <i>Astrophysical Journal</i> , 2014, 792, 17.	4.5	112
9	Characterizing 51 Eri b from 1 to 5 $\hat{1}\pm$ m: A Partly Cloudy Exoplanet. <i>Astronomical Journal</i> , 2017, 154, 10.	4.7	110
10	A STUDY OF THE DIVERSE T DWARF POPULATION REVEALED BY <i>WISE</i>. <i>Astrophysical Journal, Supplement Series</i> , 2013, 205, 6.	7.7	107
11	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET <i>PIC b. II. 3 $\hat{1}\pm$ <i>5</i> <i>1/4</i> <i>m</i> DIRECT IMAGING WITH MagAO+Clío, AND THE EMPIRICAL BOLOMETRIC LUMINOSITY OF A SELF-LUMINOUS GIANT PLANET. <i>Astrophysical Journal</i> , 2015, 815, 108.	4.5	104
12	Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO. <i>Astronomical Journal</i> , 2017, 153, 264.	4.7	99
13	Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter. <i>Astrophysical Journal</i> , 2017, 842, 14.	4.5	96
14	THE ORBIT AND TRANSIT PROSPECTS FOR $\hat{1}^2$ PICTORIS b CONSTRAINED WITH ONE MILLIARCSECOND ASTROMETRY. <i>Astronomical Journal</i> , 2016, 152, 97.	4.7	95
15	Dynamical Constraints on the HR 8799 Planets with GPI. <i>Astronomical Journal</i> , 2018, 156, 192.	4.7	95
16	1 $\hat{1}\pm$ 2.4 $\hat{1}\pm$ m Near-IR Spectrum of the Giant Planet $\hat{1}^2$ Pictoris b Obtained with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 182.	4.7	92
17	An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO. <i>Astronomical Journal</i> , 2017, 153, 244.	4.7	81
18	The HOSTS Survey $\hat{1}\pm$ Exozodiacal Dust Measurements for 30 Stars. <i>Astronomical Journal</i> , 2018, 155, 194.	4.7	78

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19	ASTROMETRIC CONFIRMATION AND PRELIMINARY ORBITAL PARAMETERS OF THE YOUNG EXOPLANET 51 ERIDANI b WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2015, 814, L3.	8.3	77
20	NULLING DATA REDUCTION AND ON-SKY PERFORMANCE OF THE LARGE BINOCULAR TELESCOPE INTERFEROMETER. <i>Astrophysical Journal</i> , 2016, 824, 66.	4.5	70
21	THE LEECH EXOPLANET IMAGING SURVEY: CHARACTERIZATION OF THE COLDEST DIRECTLY IMAGED EXOPLANET, GJ 504 b, AND EVIDENCE FOR SUPERSTELLAR METALLICITY*. <i>Astrophysical Journal</i> , 2016, 817, 166.	4.5	68
22	A narrow, edge-on disk resolved around HD 106906 with SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 586, L8.	5.1	67
23	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. <i>Astronomical Journal</i> , 2020, 160, 24.	4.7	64
24	DISCOVERY OF A SUBSTELLAR COMPANION TO THE NEARBY DEBRIS DISK HOST HR 2562. <i>Astrophysical Journal Letters</i> , 2016, 829, L4.	8.3	60
25	DOES THE DEBRIS DISK AROUND HD 32297 CONTAIN COMETARY GRAINS?., <i>Astrophysical Journal</i> , 2014, 783, 21.	4.5	57
26	The HOSTS Survey for Exozodiacal Dust: Observational Results from the Complete Survey. <i>Astronomical Journal</i> , 2020, 159, 177.	4.7	57
27	FURTHER EVIDENCE OF THE PLANETARY NATURE OF HD 95086 b FROM GEMINI/NICI <i>H</i> -BAND DATA. <i>Astrophysical Journal Letters</i> , 2013, 775, L40.	8.3	55
28	CONSTRAINTS ON THE ARCHITECTURE OF THE HD 95086 PLANETARY SYSTEM WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2016, 822, L29.	8.3	55
29	HUNTING FOR PLANETS IN THE HL TAU DISK. <i>Astrophysical Journal Letters</i> , 2015, 812, L38.	8.3	52
30	Evidence That the Directly Imaged Planet HD 131399 Ab Is a Background Star. <i>Astronomical Journal</i> , 2017, 154, 218.	4.7	52
31	GPI Spectra of HR 8799 c, d, and e from 1.5 to 2.4 μ m with KLIP Forward Modeling. <i>Astronomical Journal</i> , 2018, 155, 226.	4.7	50
32	TWO SMALL TEMPERATE PLANETS TRANSITING NEARBY M DWARFS IN K2 CAMPAIGNS 0 AND 1*. <i>Astrophysical Journal</i> , 2016, 818, 87.	4.5	47
33	SEARCHING FOR PLANETS IN HOLEY DEBRIS DISKS WITH THE APODIZING PHASE PLATE. <i>Astrophysical Journal</i> , 2015, 800, 5.	4.5	46
34	Performance of the Gemini Planet Imager's adaptive optics system. <i>Applied Optics</i> , 2016, 55, 323.	2.1	46
35	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES AND LBTI/LMIRcam ADAPTIVE OPTICS IMAGING. <i>Astrophysical Journal</i> , 2012, 752, 57.	4.5	45
36	The LEECH Exoplanet Imaging Survey: Limits on Planet Occurrence Rates under Conservative Assumptions. <i>Astronomical Journal</i> , 2018, 156, 286.	4.7	44

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37	FIRST-LIGHT LBT NULLING INTERFEROMETRIC OBSERVATIONS: WARM EXOZODIACAL DUST RESOLVED WITHIN A FEW AU OF $\hat{\nu}$. <i>Crv. Astrophysical Journal</i> , 2015, 799, 42.	4.5	42
38	THE LEECH EXOPLANET IMAGING SURVEY: ORBIT AND COMPONENT MASSES OF THE INTERMEDIATE-AGE, LATE-TYPE BINARY NO UMa* $\hat{\nu}$. <i>Astrophysical Journal</i> , 2016, 818, 1.	4.5	41
39	Characterizing the Performance of the NIRC2 Vortex Coronagraph at W. M. Keck Observatory. <i>Astronomical Journal</i> , 2018, 156, 156.	4.7	40
40	High Contrast Imaging in the Visible: First Experimental Results at the Large Binocular Telescope. <i>Astronomical Journal</i> , 2017, 154, 74.	4.7	36
41	MAGELLAN AO SYSTEM $\hat{\nu}$, $\gamma_{\text{sub}} S_{\text{sub}}$, AND $\hat{\nu}$ OBSERVATIONS OF THE VERY WIDE 650 AU HD 106906 PLANETARY SYSTEM*. <i>Astrophysical Journal</i> , 2016, 823, 24.	4.5	35
42	An Exo $\hat{\nu}$ Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light. <i>Astrophysical Journal</i> , 2019, 882, 64.	4.5	34
43	A THERMAL INFRARED IMAGING STUDY OF VERY LOW MASS, WIDE-SEPARATION BROWN DWARF COMPANIONS TO UPPER SCORPIUS STARS: CONSTRAINING CIRCUMSTELLAR ENVIRONMENTS. <i>Astrophysical Journal</i> , 2013, 767, 31.	4.5	31
44	MagAO: Status and on-sky performance of the Magellan adaptive optics system. <i>Proceedings of SPIE</i> , 2014, . .	0.8	30
45	The Gemini Planet Imager Exoplanet Survey: Dynamical Mass of the Exoplanet $\hat{\nu}$ Pictoris b from Combined Direct Imaging and Astrometry. <i>Astronomical Journal</i> , 2020, 159, 71.	4.7	29
46	Demonstrating High-precision Photometry with a CubeSat: ASTERIA Observations of 55 Cancri e. <i>Astronomical Journal</i> , 2020, 160, 23.	4.7	29
47	Multiband GPI Imaging of the HR 4796A Debris Disk. <i>Astrophysical Journal</i> , 2020, 898, 55.	4.5	29
48	DYNAMICAL MASS MEASUREMENT OF THE YOUNG SPECTROSCOPIC BINARY V343 NORMAE AaAb RESOLVED WITH THE GEMINI PLANET IMAGER. <i>Astronomical Journal</i> , 2016, 152, 175.	4.7	28
49	Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS. <i>Astronomical Journal</i> , 2018, 156, 47.	4.7	28
50	EXO-ZODI MODELING FOR THE LARGE BINOCULAR TELESCOPE INTERFEROMETER. <i>Astrophysical Journal</i> , Supplement Series, 2015, 216, 23.	7.7	27
51	Multi-phase volcanic resurfacing at Loki Patera on Io. <i>Nature</i> , 2017, 545, 199-202.	27.8	26
52	HIGH-CONTRAST 3.8 $\hat{\nu}$ m IMAGING OF THE BROWN DWARF/PLANET-MASS COMPANION TO GJ 758. <i>Astrophysical Journal Letters</i> , 2010, 721, L177-L181.	8.3	23
53	TARGET SELECTION FOR THE LBTI EXOZODI KEY SCIENCE PROGRAM. <i>Astrophysical Journal</i> , Supplement Series, 2015, 216, 24.	7.7	23
54	NEW EXTINCTION AND MASS ESTIMATES FROM OPTICAL PHOTOMETRY OF THE VERY LOW MASS BROWN DWARF COMPANION CT CHAMAELEONTIS B WITH THE MAGELLAN AO SYSTEM. <i>Astrophysical Journal</i> , 2015, 801, 4.	4.5	23

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55	NEW EXTINCTION AND MASS ESTIMATES OF THE LOW-MASS COMPANION 1RXS 1609 B WITH THE MAGELLAN AO SYSTEM: EVIDENCE OF AN INCLINED DUST DISK. <i>Astrophysical Journal Letters</i> , 2015, 807, L13.	8.3	22
56	Multiband Polarimetric Imaging of HR 4796A with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 160, 79.	4.7	22
57	NEW SPATIALLY RESOLVED OBSERVATIONS OF THE T Cha TRANSITION DISK AND CONSTRAINTS ON THE PREVIOUSLY CLAIMED SUBSTELLAR COMPANION. <i>Astrophysical Journal</i> , 2015, 801, 85.	4.5	21
58	Large binocular telescope interferometer adaptive optics: on-sky performance and lessons learned. <i>Proceedings of SPIE</i> , 2014, , .	0.8	20
59	The TWA 3 Young Triple System: Orbits, Disks, Evolution. <i>Astrophysical Journal</i> , 2017, 844, 168.	4.5	20
60	LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. <i>Space Science Reviews</i> , 2012, 167, 93-140.	8.1	19
61	Gemini Planet Imager observational calibrations XI: pipeline improvements and enhanced calibrations after two years on sky. <i>Proceedings of SPIE</i> , 2016, , .	0.8	19
62	IMAGING AN 80 au RADIUS DUST RING AROUND THE F5V STAR HD 157587. <i>Astronomical Journal</i> , 2016, 152, 128.	4.7	19
63	The Gemini Planet Imager View of the HD 32297 Debris Disk. <i>Astronomical Journal</i> , 2020, 159, 251.	4.7	19
64	ADAPTIVE OPTICS IMAGING OF VY CANIS MAJORIS AT 2.5 μ m WITH LBT/LMIRCam. <i>Astronomical Journal</i> , 2013, 146, 90.	4.7	18
65	Status and performance of the Gemini Planet Imager adaptive optics system. <i>Proceedings of SPIE</i> , 2016, , .	0.8	18
66	First light with ALES: A 2-5 micron adaptive optics Integral Field Spectrograph for the LBT. <i>Proceedings of SPIE</i> , 2015, , .	0.8	17
67	An Updated Visual Orbit of the Directly Imaged Exoplanet 51 Eridani b and Prospects for a Dynamical Mass Measurement with Gaia. <i>Astronomical Journal</i> , 2020, 159, 1.	4.7	16
68	MID-INFRARED HIGH-CONTRAST IMAGING OF HD 114174 B: AN APPARENT AGE DISCREPANCY IN A α Centauri-LIKE BINARY SYSTEM. <i>Astrophysical Journal Letters</i> , 2014, 783, L25.	8.3	15
69	Integral Field Spectroscopy of the Low-mass Companion HD 984 B with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 190.	4.7	15
70	Revised astrometric calibration of the Gemini Planet Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.8	15
71	The Multiplicity of M Dwarfs in Young Moving Groups. <i>Astrophysical Journal</i> , 2017, 846, 93.	4.5	14
72	Speckle statistics in adaptive optics images at visible wavelengths. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2017, 3, 025001.	1.8	13

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73	The Gemini Planet Imager: looking back over five years and forward to the future. , 2018, , .		13
74	First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 159, 31.	4.7	12
75	High contrast imaging at the LBT: the LEECH exoplanet imaging survey. <i>Proceedings of SPIE</i> , 2014, , .	0.8	11
76	Commissioning the LBTI for use as a nulling interferometer and coherent imager. , 2014, , .		11
77	Imaging protoplanets: observing transition disks with non-redundant masking. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
78	Making high-accuracy null depth measurements for the LBTI exozodi survey. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
79	New Spatially Resolved Imaging of the SR 21 Transition Disk and Constraints on the Small-grain Disk Geometry. <i>Astrophysical Journal</i> , 2019, 883, 100.	4.5	10
80	Lessons for WFIRST CGI from ground-based high-contrast systems. , 2018, , .		9
81	Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry. <i>Astronomical Journal</i> , 2020, 159, 53.	4.7	8
82	Upgrading the Gemini planet imager: GPI 2.0. , 2018, , .		8
83	Characterization of lemniscate atmospheric aberrations in Gemini Planet Imager data. , 2018, , .		7
84	Asymmetries in adaptive optics point spread functions. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	6
85	The HOSTS survey for exo-zodiacal dust: preliminary results and future prospects. , 2018, , .		6
86	Detection of a Low-mass Stellar Companion to the Accelerating A2IV Star HR 1645. <i>Astronomical Journal</i> , 2019, 158, 226.	4.7	5
87	The HOSTS Survey: Evidence for an Extended Dust Disk and Constraints on the Presence of Giant Planets in the Habitable Zone of $\hat{\iota}^2$ Leo. <i>Astronomical Journal</i> , 2021, 161, 186.	4.7	5
88	Air, telescope, and instrument temperature effects on the Gemini Planet Imager's image quality. , 2018, , .		5
89	Resolving Io's Volcanoes from a Mutual Event Observation at the Large Binocular Telescope. <i>Planetary Science Journal</i> , 2021, 2, 227.	3.6	5
90	Performance of the Gemini Planet Imager Non-redundant Mask and Spectroscopy of Two Close-separation Binaries: HR 2690 and HD 142527. <i>Astronomical Journal</i> , 2019, 157, 249.	4.7	3

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91	Effects of mirror seeing on high-contrast adaptive optics instruments. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.8	3
92	Moving the Gemini planet imager to Gemini North: expectations and challenges. , 2018, , .		3
93	LEECH: A 100 Night Exoplanet Imaging Survey at the LBT. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 70-71.	0.0	2
94	OGLE-2007-BLG-224L: A Direct Test of Terrestrial Parallax. <i>Astrophysical Journal</i> , 2021, 908, 240.	4.5	2
95	HD 219134 Revisited: Planet d Transit Upper Limit and Planet f Transit Nondetection with ASTERIA and TESS. <i>Astronomical Journal</i> , 2021, 161, 117.	4.7	2
96	Transit Search for Exoplanets around Alpha Centauri A and B with ASTERIA. <i>Astronomical Journal</i> , 2021, 161, 275.	4.7	2
97	Mining the GPIES database. , 2018, , .		2
98	Large Binocular Telescope Search for Companions and Substructures in the (Pre)transitional Disk of AB Aurigae. <i>Astrophysical Journal</i> , 2022, 926, 71.	4.5	2
99	The Large Binocular Telescope Interferometer & Adaptive Optics System: On-sky Performance and Results. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 26-27.	0.0	1
100	HD 165054: An Astrometric Calibration Field for High-contrast Imagers in Baade's Window. <i>Astronomical Journal</i> , 2020, 159, 244.	4.7	1
101	Visible AO Observations at Halpha for Accreting Young Planets. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 32-33.	0.0	0
102	Searching for Faint Exozodiacal Disks: Keck Results and LBTI Status. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 332-333.	0.0	0
103	Precision Time-series Photometry in the Thermal Infrared with a "Wall-eyed" Pointing Mode at the Large Binocular Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 014504.	3.1	0