

Beth A Biller

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,697
citations

304743

22
h-index

330143

37
g-index

54
all docs

54
docs citations

54
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	THE GEMINI/NICI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF PLANETS AROUND YOUNG MOVING GROUP STARS. <i>Astrophysical Journal</i> , 2013, 777, 160.	4.5	176
2	A LIKELY CLOSE-IN LOW-MASS STELLAR COMPANION TO THE TRANSITIONAL DISK STAR HD 142527. <i>Astrophysical Journal Letters</i> , 2012, 753, L38.	8.3	163
3	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A CLOSE SUBSTELLAR COMPANION TO THE YOUNG DEBRIS DISK STAR PZ Tel. <i>Astrophysical Journal Letters</i> , 2010, 720, L82-L87.	8.3	112
4	WEATHER ON THE NEAREST BROWN DWARFS: RESOLVED SIMULTANEOUS MULTI-WAVELENGTH VARIABILITY MONITORING OF WISE J104915.57â€“531906.1AB. <i>Astrophysical Journal Letters</i> , 2013, 778, L10.	8.3	92
5	HIGH-CADENCE, HIGH-CONTRAST IMAGING FOR EXOPLANET MAPPING: OBSERVATIONS OF THE HR 8799 PLANETS WITH VLT/SPHERE SATELLITE-SPOT-CORRECTED RELATIVE PHOTOMETRY. <i>Astrophysical Journal</i> , 2016, 820, 40.	4.5	72
6	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A MULTIPLE SYSTEM ORBITING THE YOUNG A STAR HD 1160. <i>Astrophysical Journal</i> , 2012, 750, 53.	4.5	70
7	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
8	The Viewing Geometry of Brown Dwarfs Influences Their Observed Colors and Variability Amplitudes. <i>Astrophysical Journal</i> , 2017, 842, 78.	4.5	65
9	VARIABILITY IN A YOUNG, L/T TRANSITION PLANETARY-MASS OBJECT. <i>Astrophysical Journal Letters</i> , 2015, 813, L23.	8.3	60
10	Simultaneous Multiwavelength Variability Characterization of the Free-floating Planetary-mass Object PSO J318.5âˆ“22. <i>Astronomical Journal</i> , 2018, 155, 95.	4.7	49
11	Constraining the multiplicity statistics of the coolest brown dwarfs: binary fraction continues to decrease with spectral type. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 2702-2727.	4.4	47
12	The time domain for brown dwarfs and directly imaged giant exoplanets: the power of variability monitoring. <i>The Astronomical Review</i> , 2017, 13, 1-27.	4.0	46
13	Disc fragmentation rarely forms planetary-mass objects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1940-1947.	4.4	45
14	The LEECH Exoplanet Imaging Survey: Limits on Planet Occurrence Rates under Conservative Assumptions. <i>Astronomical Journal</i> , 2018, 156, 286.	4.7	44
15	Orbit and Dynamical Mass of the Late-T Dwarf GL 758 B*. <i>Astronomical Journal</i> , 2018, 155, 159.	4.7	43
16	A Search for Variability in Exoplanet Analogues and Low-Gravity Brown Dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	39
17	CLOUD STRUCTURE OF THE NEAREST BROWN DWARFS. II. HIGH-AMPLITUDE VARIABILITY FOR LUHMAN 16 A AND B IN AND OUT OF THE 0.99 μm FeH FEATURE. <i>Astrophysical Journal</i> , 2015, 812, 163.	4.5	38
18	Variability of the lowest mass objects in the AB Doradus moving group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1041-1053.	4.4	38

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19	Spitzer Variability Properties of Low-gravity L Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 38.	4.7	37
20	Atmospheric Habitable Zones in Y Dwarf Atmospheres. <i>Astrophysical Journal</i> , 2017, 836, 184.	4.5	37
21	A novel simultaneous differential imager for the direct imaging of giant planets. , 2004, 5492, 970.		35
22	The Gemini NICI Planet-Finding Campaign. <i>Proceedings of SPIE</i> , 2010, , .	0.8	31
23	Performance of the near-infrared coronagraphic imager on Gemini-South. <i>Proceedings of SPIE</i> , 2008, , .	0.8	29
24	A measurement of the wind speed on a brown dwarf. <i>Science</i> , 2020, 368, 169-172.	12.6	29
25	Suppressing speckle noise for simultaneous differential extrasolar planet imaging (SDI) at the VLT and MMT. , 2004, , .		27
26	The Hawaii Infrared Parallax Program. III. 2MASS J0249â€“0557 c: A Wide Planetary-mass Companion to a Low-mass Binary in the Î²Pic Moving Group* ^{â€“}. <i>Astronomical Journal</i> , 2018, 156, 57.	4.7	26
27	A wide-orbit giant planet in the high-mass b Centauri binary system. <i>Nature</i> , 2021, 600, 231-234.	27.8	23
28	A high-contrast search for variability in HR 8799bc with VLT-SPHERE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 743-767.	4.4	17
29	A Novel Survey for Young Substellar Objects with the W-band Filter. II. The Coolest and Lowest Mass Members of the Serpens-South Star-forming Region. <i>Astrophysical Journal</i> , 2020, 892, 122.	4.5	14
30	Fragmentation favoured in discs around higher mass stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5041-5051.	4.4	14
31	DEEP<i>z</i>-BAND OBSERVATIONS OF THE COOLEST Y DWARF. <i>Astrophysical Journal</i> , 2014, 797, 3.	4.5	12
32	A Wide Planetary-mass Companion to a Young Low-mass Brown Dwarf in Ophiuchus. <i>Astrophysical Journal Letters</i> , 2020, 905, L14.	8.3	12
33	Chandra X-ray Observatory mirror effective area. , 2004, 5165, 482.		11
34	NICI: combining coronagraphy, ADI, and SDI. <i>Proceedings of SPIE</i> , 2008, , .	0.8	11
35	Revealing the Vertical Cloud Structure of a Young Low-mass Brown Dwarf, an Analog to the Î²-Pictoris b Directly Imaged Exoplanet, through Keck I/MOSFIRE Spectrophotometric Variability. <i>Astronomical Journal</i> , 2021, 162, 179.	4.7	9
36	NACO-SDI: A Novel Simultaneous Differential Imager for the Direct Imaging of Giant Extra-Solar Planets. , 0, , 46-52.		8

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37	A Tool and Workflow for Radio Astronomical “Peeling” in CASA. Research Notes of the AAS, 2019, 3, 110.	0.7	6
38	Observing strategies for the NICI campaign to directly image extrasolar planets. , 2008, , .		5
39	The UK Centre for Astrobiology: A Virtual Astrobiology Centre. Accomplishments and Lessons Learned, 2011–2016. Astrobiology, 2018, 18, 224-243.	3.0	5
40	A novel survey for young substellar objects with the <i>W</i> -band filter III: Searching for very low-mass brown dwarfs in Serpens South and Serpens Core. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4215-4234.	4.4	5
41	Suppressing Speckle Noise for Simultaneous Differential Extrasolar Planet Imaging (SDI) at the VLT and MMT. Proceedings of the International Astronomical Union, 2005, 1, 571-576.	0.0	4
42	Contrast limits with the Simultaneous Differential Extrasolar Planet Imager (SDI) at the VLT and MMT. , 2006, 6272, 786.		4
43	Exoplanet Atmosphere Measurements from Direct Imaging. , 2018, , 2107-2135.		3
44	Ground-based direct imaging of extra-solar planets supported by AO. Proceedings of the International Astronomical Union, 2005, 1, 501-506.	0.0	2
45	Detecting and Characterizing Exoplanets with Direct Imaging: Past, Present, and Future. Proceedings of the International Astronomical Union, 2013, 8, 1-11.	0.0	2
46	LEECH: A 100 Night Exoplanet Imaging Survey at the LBT. Proceedings of the International Astronomical Union, 2013, 8, 70-71.	0.0	2
47	Exoplanet Atmosphere Measurements from Direct Imaging. , 2017, , 1-28.		2
48	Large Binocular Telescope Search for Companions and Substructures in the (Pre)transitional Disk of AB Aurigae. Astrophysical Journal, 2022, 926, 71.	4.5	2
49	A Survey of Close, Young Stars with SDI at the VLT and MMT. Proceedings of the International Astronomical Union, 2005, 1, 53-60.	0.0	0
50	Adaptive Optics Science with the MMT Adaptive Secondary: Mid-IR AO Imaging of the Post-AGB Star AC Her. , 0, , 253-260.		0
51	The Gemini NICI Planet-Finding Campaign: The Frequency of Giant Planets around Young B and A Stars. Proceedings of the International Astronomical Union, 2013, 8, 60-61.	0.0	0
52	Mapping the Distributions of Exoplanet Populations with NICI and GPI. Proceedings of the International Astronomical Union, 2015, 10, 220-225.	0.0	0
53	Cloud Driven Variability on Young Brown Dwarfs and Giant Exoplanets. Proceedings of the International Astronomical Union, 2015, 10, 99-104.	0.0	0