

Sarah Casewell

List of Publications by Year in descending order

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99
papers

2,258
citations

201674

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276875

41
g-index

100
all docs

100
docs citations

100
times ranked

2324
citing authors

#	ARTICLE	IF	CITATIONS
1	The Next Generation Transit Survey (NGTS). Monthly Notices of the Royal Astronomical Society, 2018, 475, 4476-4493.	4.4	189
2	NGTS-1b: a hot Jupiter transiting an M-dwarf. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4467-4475.	4.4	91
3	New Praesepe white dwarfs and the initial mass–final mass relation. Monthly Notices of the Royal Astronomical Society, 2006, 369, 383-389.	4.4	84
4	A remnant planetary core in the hot-Neptune desert. Nature, 2020, 583, 39-42.	27.8	73
5	Eight new T4.5-T7.5 dwarfs discovered in the UKIDSS Large Area Survey Data Release 1. Monthly Notices of the Royal Astronomical Society, 2007, 379, 1423-1430.	4.4	71
6	ORIGIN OF ELECTRON CYCLOTRON MASER INDUCED RADIO EMISSIONS AT ULTRACOOL DWARFS: MAGNETOSPHERE-IONOSPHERE COUPLING CURRENTS. Astrophysical Journal, 2012, 760, 59.	4.5	66
7	Atmospheres of brown dwarfs. Astronomy and Astrophysics Review, 2014, 22, 1.	25.5	63
8	High-resolution optical spectroscopy of Praesepe white dwarfs. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1795-1804.	4.4	60
9	HUBBLE SPACE TELESCOPE OBSERVATIONS OF THE NUV TRANSIT OF WASP-12b. Astrophysical Journal, 2015, 803, 9.	4.5	59
10	Evidence for an external origin of heavy elements in hot DA white dwarfs. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1607-1625.	4.4	56
11	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. Astrophysical Journal, 2020, 890, 176.	4.5	53
12	NGTS-4b: A sub-Neptune transiting in the desert. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5094-5103.	4.4	47
13	Centroid vetting of transiting planet candidates from the Next Generation Transit Survey. Monthly Notices of the Royal Astronomical Society, 2017, 472, 295-307.	4.4	46
14	The nature of the close magnetic white dwarf + probable brown dwarf binary SDSS J121209.31+013627.7*. Monthly Notices of the Royal Astronomical Society, 2006, 373, 1416-1422.	4.4	45
15	Multiwavelength photometry of the irradiated brown dwarf WD0137+349B. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3218-3226.	4.4	44
16	The substellar companion in the eclipsing white dwarf binary SDSS J141126.20+200911.1. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2106-2115.	4.4	43
17	An ultrahot Neptune in the Neptune desert. Nature Astronomy, 2020, 4, 1148-1157.	10.1	43
18	NEPTUNE'S DYNAMIC ATMOSPHERE FROM KEPLER K2 OBSERVATIONS: IMPLICATIONS FOR BROWN DWARF LIGHT CURVE ANALYSES. Astrophysical Journal, 2016, 817, 162.	4.5	39

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19	Two white dwarfs in ultrashort binaries with detached, eclipsing, likely sub-stellar companions detected by K2. Monthly Notices of the Royal Astronomical Society, 2017, 471, 976-986.	4.4	35
20	NGTS-7Ab: an ultrashort-period brown dwarf transiting a tidally locked and active M dwarf. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5146-5164.	4.4	35
21	NGTS clusters survey â€” I. Rotation in the young benchmark open cluster Blanco 1. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1008-1024.	4.4	35
22	WD0837+185: THE FORMATION AND EVOLUTION OF AN EXTREME MASS-RATIO WHITE-DWARF-BROWN-DWARF BINARY IN PRAESEPE. Astrophysical Journal Letters, 2012, 759, L34.	8.3	34
23	Detection of a giant flare displaying quasi-periodic pulsations from a pre-main-sequence M star by the Next Generation Transit Survey. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5553-5566.	4.4	33
24	The Next Generation Transit Surveyâ€™ Prototyping Phase. Publications of the Astronomical Society of the Pacific, 2017, 129, 025002.	3.1	31
25	THE FIRST MILLIMETER DETECTION OF A NON-ACCRETING ULTRACOOL DWARF. Astrophysical Journal, 2015, 815, 64.	4.5	30
26	TOI-222: a single-transit TESS candidate revealed to be a 34-d eclipsing binary with CORALIE, EulerCam, and NGTS. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1761-1769.	4.4	30
27	Simultaneous TESS and NGTS transit observations of WASP-166â€™b. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5872-5881.	4.4	30
28	NGTS-11 b (TOI-1847 b): A Transiting Warm Saturn Recovered from a TESS Single-transit Event. Astrophysical Journal Letters, 2020, 898, L11.	8.3	30
29	GRB 060206 and the quandary of achromatic breaks in afterglow light curves. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 381, L65-L69.	3.3	29
30	Emission lines in the atmosphere of the irradiated brown dwarf WD0137â€™349B. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1728-1736.	4.4	29
31	Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal, 2020, 899, 123.	4.5	28
32	L dwarfs in the Hyades. Monthly Notices of the Royal Astronomical Society, 2008, 388, 495-499.	4.4	26
33	Simplified 3D GCM modelling of the irradiated brown dwarf WD0137â€™349B. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4674-4687.	4.4	26
34	The first sub-70â€™min non-interacting WDâ€™BD system: EPIC212235321. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1405-1411.	4.4	24
35	A quantitative in-depth analysis of the prototype sdB+BD system SDSSâ€™J08205+0008 revisited in the <i>Gaia</i> era. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3847-3870.	4.4	24
36	WD1032â€™011, an inflated brown dwarf in an old eclipsing binary with a white dwarf. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3571-3580.	4.4	23

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37	The gravitational redshift of Sirius B. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2361-2370.	4.4	22
38	Stellar flares detected with the Next Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3246-3264.	4.4	21
39	The direct detection of the irradiated brown dwarf in the white dwarfâ€“brown dwarf binary SDSSâ€“J141126.20+200911.1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5216-5222.	4.4	20
40	Signs of accretion in the white dwarf + brown dwarf binary NLTT5306. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2566-2574.	4.4	19
41	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
42	NGTS-10b: the shortest period hot Jupiter yet discovered. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 126-140.	4.4	18
43	Populating the brown dwarf and stellar boundary: Five stars with transiting companions near the hydrogen-burning mass limit. <i>Astronomy and Astrophysics</i> , 2021, 652, A127.	5.1	18
44	Shallow transit follow-up from the Next Generation Transit Survey: Simultaneous observations of HD 106315 with 11 identical telescopes. <i>Astronomische Nachrichten</i> , 2020, 341, 273-282.	1.2	17
45	New Candidate Extreme T Subdwarfs from the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal</i> , 2021, 915, 120.	4.5	17
46	NGTS-2b: an inflated hot-Jupiter transiting a bright F-dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4960-4970.	4.4	16
47	Detection of a giant white-light flare on an L2.5 dwarf with the Next Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 485, L136-L140.	3.3	15
48	A transit timing variation observed for the long-period extremely low-density exoplanet HIP 41378. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 504, L45-L50.	3.3	15
49	X-ray orbital modulation of a white dwarf accreting from an L dwarf. <i>Astronomy and Astrophysics</i> , 2017, 598, L6.	5.1	14
50	NGTS-6b: an ultrashort period hot-Jupiter orbiting an old K dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4125-4134.	4.4	14
51	NGTS clusters survey II. White-light flares from the youngest stars in Orion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 809-817.	4.4	14
52	A long-period (P = 61.8 d) M5V dwarf eclipsing a Sun-like star from TESS and NGTS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2713-2719.	4.4	14
53	NLTT5306B: an inflated, weakly irradiated brown dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5318-5324.	4.4	14
54	NGTS-19b: a high-mass transiting brown dwarf in a 17-d eccentric orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2741-2752.	4.4	12

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55	A LOFAR mini-survey for low-frequency radio emission from the nearest brown dwarfs. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2202-2209.	4.4	11
56	3.8 μ m Imaging of 400–600 K Brown Dwarfs and Orbital Constraints for WISEP J045853.90+643452.6AB. Astrophysical Journal, 2019, 882, 117.	4.5	11
57	The Enigmatic Brown Dwarf WISEA J153429.75-104303.3 (a.k.a. ‘‘The Accident’’). Astrophysical Journal Letters, 2021, 915, L6.	8.3	11
58	Component masses of young, wide, non-magnetic white dwarf binaries in the Sloan Digital Sky Survey Data Release 7. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3184-3201.	4.4	10
59	A low-mass eclipsing binary within the fully convective zone from the Next Generation Transit Survey. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1897-1907.	4.4	10
60	An eclipsing M-dwarf close to the hydrogen burning limit from NGTS. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3115-3124.	4.4	10
61	High-field magnetic white dwarfs as the progeny of early-type stars?. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 428, L16-L20.	3.3	9
62	Time-series Analysis of Broadband Photometry of Neptune from K2. Astronomical Journal, 2017, 153, 149.	4.7	9
63	NGTS and WASP photometric recovery of a single-transit candidate from TESS. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	9
64	Atmosphere Models of Brown Dwarfs Irradiated by White Dwarfs: Analogs for Hot and Ultrahot Jupiters. Astrophysical Journal, 2020, 905, 163.	4.5	9
65	Ross 19B: An Extremely Cold Companion Discovered via the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal, 2021, 921, 140.	4.5	9
66	A Wide Planetary Mass Companion Discovered through the Citizen Science Project Backyard Worlds: Planet 9. Astrophysical Journal, 2021, 923, 48.	4.5	9
67	Confirming new white dwarf-ultracool dwarf binary candidates. Monthly Notices of the Royal Astronomical Society, 2020, 498, 12-24.	4.4	8
68	NGTS clusters survey ‘‘ III. A low-mass eclipsing binary in the Blanco 1 open cluster spanning the fully convective boundary. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5991-6011.	4.4	8
69	Exploring deep and hot adiabats as a potential solution to the radius inflation problem in brown dwarfs. Astronomy and Astrophysics, 2021, 656, A128.	5.1	8
70	HST/WFC3 Complete Phase-resolved Spectroscopy of White-dwarf-brown-dwarf Binaries WD 0137 and EPIC 2122. Astronomical Journal, 2022, 163, 17.	4.7	8
71	A photometric and astrometric investigation of the brown dwarfs in Blanco 1. Monthly Notices of the Royal Astronomical Society, 2012, 425, 3112-3118.	4.4	7
72	Using GALEX-SDSS-PanSTARRS-HST-Gaia to understand post-AGB evolution. Astrophysics and Space Science, 2018, 363, 1.	1.4	6

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73	Testing the white dwarf mass-radius relation and comparing optical and far-UV spectroscopic results with Gaia DR2, HST and FUSE. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6
74	NGTS-12b: A sub-Saturn mass transiting exoplanet in a 7.53%day orbit. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3139-3148.	4.4	6
75	NGTS J214358.5~380102 " NGTS discovery of the most eccentric known eclipsing M-dwarf binary system. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3950-3961.	4.4	6
76	Periodic stellar variability from almost a million NGTS light curves. Monthly Notices of the Royal Astronomical Society, 2022, 513, 420-438.	4.4	6
77	Transit timings variations in the three-planet system: TOI-270. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5464-5485.	4.4	6
78	NGTS 15b, 16b, 17b, and 18b: four hot Jupiters from the Next-Generation Transit Survey. Monthly Notices of the Royal Astronomical Society, 2021, 504, 6018-6032.	4.4	5
79	The return of the spin period in DW Cnc and evidence of new high state outbursts. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1002-1009.	4.4	5
80	CWISE J014611.20~050850.OAB: The Widest Known Brown Dwarf Binary in the Field. Astrophysical Journal Letters, 2022, 926, L12.	8.3	5
81	Discovery of 34 Low-mass Comoving Systems Using NOIRLab Source Catalog DR2. Astronomical Journal, 2022, 164, 3.	4.7	5
82	Identification of a Low-mass Companion to the White Dwarf SDSS J131730.84+483332.7. Research Notes of the AAS, 2021, 5, 76.	0.7	4
83	Statistical Signatures of Nanoflare Activity. II. A Nanoflare Explanation for Periodic Brightenings in Flare Stars Observed by NGTS. Astrophysical Journal, 2020, 904, 109.	4.5	4
84	Discovery of CWISE J052306.42~015355.4, an Extreme T Subdwarf Candidate. Astronomical Journal, 2022, 163, 47.	4.7	4
85	Discovery of 16 New Members of the Solar Neighborhood Using Proper Motions from CatWISE2020. Astronomical Journal, 2022, 163, 116.	4.7	4
86	TIC-320687387 B: a long-period eclipsing M-dwarf close to the hydrogen burning limit. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1785-1793.	4.4	4
87	Mapping the Pressure-dependent Day~Night Temperature Contrast of a Strongly Irradiated Atmosphere with HST Spectroscopic Phase Curve. Astronomical Journal, 2022, 163, 8.	4.7	4
88	Optical spectroscopy of candidate Alpha Persei white dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 451, 4259-4265.	4.4	3
89	Spectral analysis of the binary nucleus of the planetary nebula Hen 2-428 " first results. Open Astronomy, 2018, 27, 57-61.	0.6	3
90	Revealing the True Nature of Hen 2-428. Galaxies, 2018, 6, 88.	3.0	3

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91	NGTS and <i>HST</i> insights into the long-period modulation in GWâ€™Librae. Monthly Notices of the Royal Astronomical Society, 2021, 502, 581-588.	4.4	3
92	NGTS-13b: a hot 4.8 Jupiter-mass planet transiting a subgiant star. Astronomy and Astrophysics, 2021, 647, A180.	5.1	3
93	The search for living worlds and the connection to our cosmic origins. Experimental Astronomy, 2022, 54, 1275-1306.	3.7	1
94	Scintillation-limited photometry with the 20-cm NGTS telescopes at Paranal Observatory. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	1
95	Near-infrared Spectra of the Inflated Post-common Envelope Brown Dwarf NLTT 5306 B. Astronomical Journal, 2022, 163, 262.	4.7	1
96	WDJ220838.73+454434.04: a White Dwarf Companion in the AR Lacertae System. Research Notes of the AAS, 2022, 6, 127.	0.7	1
97	The white dwarf mass-radius relation with Gaia, Hubble and FUSE. Proceedings of the International Astronomical Union, 2017, 12, 301-304.	0.0	0
98	What can ISM and non-photospheric highly ionised lines in white dwarf spectra reveal about the Î² CMA tunnel?. Proceedings of the International Astronomical Union, 2019, 15, 220-224.	0.0	0
99	Identification of a White Dwarf Companion in the V* HP Dra System. Research Notes of the AAS, 2021, 5, 170.	0.7	0