

Brice-Olivier Demory

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

10,865
citations

34105

52
h-index

33894

99
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123
all docs

123
docs citations

123
times ranked

4601
citing authors

#	ARTICLE	IF	CITATIONS
1	Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1. <i>Nature</i> , 2017, 542, 456-460.	27.8	1,144
2	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . III. ANALYSIS OF THE FIRST 16 MONTHS OF DATA. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 24.	7.7	823
3	Temperate Earth-sized planets transiting a nearby ultracool dwarf star. <i>Nature</i> , 2016, 533, 221-224.	27.8	507
4	REVISED STELLAR PROPERTIES OF <i>KEPLER</i> TARGETS FOR THE QUARTER 1-16 TRANSIT DETECTION RUN. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 2.	7.7	418
5	A seven-planet resonant chain in TRAPPIST-1. <i>Nature Astronomy</i> , 2017, 1, .	10.1	263
6	THE MASS OF KOI-94d AND A RELATION FOR PLANET RADIUS, MASS, AND INCIDENT FLUX. <i>Astrophysical Journal</i> , 2013, 768, 14.	4.5	253
7	INFERENCE OF INHOMOGENEOUS CLOUDS IN AN EXOPLANET ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2013, 776, L25.	8.3	250
8	The nature of the TRAPPIST-1 exoplanets. <i>Astronomy and Astrophysics</i> , 2018, 613, A68.	5.1	246
9	A map of the large dayâ€“night temperature gradient of a super-Earth exoplanet. <i>Nature</i> , 2016, 532, 207-209.	27.8	225
10	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> IV: PLANET SAMPLE FROM Q1-Q8 (22 MONTHS). <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 19.	7.7	222
11	Detection of transits of the nearby hot Neptune GJ436 b. <i>Astronomy and Astrophysics</i> , 2007, 472, L13-L16.	5.1	219
12	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2012, 745, 120.	4.5	218
13	LACK OF INFLATED RADII FOR <i>KEPLER</i> GIANT PLANET CANDIDATES RECEIVING MODEST STELLAR IRRADIATION. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 12.	7.7	204
14	Atmospheric reconnaissance of the habitable-zone Earth-sized planets orbiting TRAPPIST-1. <i>Nature Astronomy</i> , 2018, 2, 214-219.	10.1	179
15	KEPLER-18b, c, AND d: A SYSTEM OF THREE PLANETS CONFIRMED BY TRANSIT TIMING VARIATIONS, LIGHT CURVE VALIDATION, <i>WARM-SPITZER</i> PHOTOMETRY, AND RADIAL VELOCITY MEASUREMENTS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 7.	7.7	171
16	THE HOT-JUPITER KEPLER-17b: DISCOVERY, OBLIQUITY FROM STROBOSCOPIC STARSPOTS, AND ATMOSPHERIC CHARACTERIZATION. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 14.	7.7	162
17	Refining the Transit-timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides. <i>Planetary Science Journal</i> , 2021, 2, 1.	3.6	161
18	A combined transmission spectrum of the Earth-sized exoplanets TRAPPIST-1 b and c. <i>Nature</i> , 2016, 537, 69-72.	27.8	157

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19	The TRAPPIST survey of southern transiting planets. <i>Astronomy and Astrophysics</i> , 2012, 542, A4.	5.1	155
20	Detection of a transit of the super-Earth 55â€‰Cncrî€‰e with warmÂ<i>Spitzer</i>. <i>Astronomy and Astrophysics</i> , 2011, 533, A114.	5.1	152
21	Mass-radius relation of low and very low-mass stars revisited withÂtheÂVLTI. <i>Astronomy and Astrophysics</i> , 2009, 505, 205-215.	5.1	144
22	The CHEOPS mission. <i>Experimental Astronomy</i> , 2021, 51, 109-151.	3.7	140
23	UNDERSTANDING TRENDS ASSOCIATED WITH CLOUDS IN IRRADIATED EXOPLANETS. <i>Astrophysical Journal</i> , 2013, 777, 100.	4.5	135
24	Variability in the super-Earth 55ÂCncÂe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2018-2027.	4.4	126
25	THE HIGH ALBEDO OF THE HOT JUPITER KEPLER-7 b. <i>Astrophysical Journal Letters</i> , 2011, 735, L12.	8.3	123
26	DETECTION OF THERMAL EMISSION FROM A SUPER-EARTH. <i>Astrophysical Journal Letters</i> , 2012, 751, L28.	8.3	113
27	Accurate <i>Spitzer</i> infrared radius measurement for the hot Neptune GJ 436b. <i>Astronomy and Astrophysics</i> , 2007, 471, L51-L54.	5.1	111
28	The HARPS-N Rocky Planet Search. <i>Astronomy and Astrophysics</i> , 2015, 584, A72.	5.1	108
29	The Peculiar Atmospheric Chemistry of KELT-9b. <i>Astrophysical Journal</i> , 2018, 863, 183.	4.5	107
30	Towards consistent mapping of distant worlds: secondary-eclipse scanning of the exoplanet HDâ€‰189733b. <i>Astronomy and Astrophysics</i> , 2012, 548, A128.	5.1	105
31	A global analysis of<i>Spitzer</i> and new HARPS data confirms the loneliness and metal-richness of GJâ€‰436 b. <i>Astronomy and Astrophysics</i> , 2014, 572, A73.	5.1	104
32	Temporal Evolution of the High-energy Irradiation and Water Content of TRAPPIST-1 Exoplanets. <i>Astronomical Journal</i> , 2017, 154, 121.	4.7	104
33	The thermal emission of the young and massive planet CoRoT-2b at 4.5 and 8Â<i>Î¼</i>m. <i>Astronomy and Astrophysics</i> , 2010, 511, A3.	5.1	101
34	HELIOSâ€“RETRIEVAL: An Open-source, Nested Sampling Atmospheric Retrieval Code; Application to the HR 8799 Exoplanets and Inferred Constraints for Planet Formation. <i>Astronomical Journal</i> , 2017, 154, 91.	4.7	101
35	<i>SPITZER</i> TRANSITS OF THE SUPER-EARTH GJ1214b AND IMPLICATIONS FOR ITS ATMOSPHERE. <i>Astrophysical Journal</i> , 2013, 765, 127.	4.5	100
36	Early 2017 observations of TRAPPIST-1 with Spitzer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3577-3597.	4.4	100

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37	Six transiting planets and a chain of Laplace resonances in TOI-178. <i>Astronomy and Astrophysics</i> , 2021, 649, A26.	5.1	94
38	Revisiting the Phase Curves of WASP-43b: Confronting Re-analyzed Spitzer Data with Cloudy Atmospheres. <i>Astronomical Journal</i> , 2018, 155, 150.	4.7	91
39	PHOTOMETRICALLY DERIVED MASSES AND RADII OF THE PLANET AND STAR IN THE TrES-2 SYSTEM. <i>Astrophysical Journal</i> , 2012, 761, 53.	4.5	89
40	Improved precision on the radius of the nearby super-Earth 55 Cnc e. <i>Astronomy and Astrophysics</i> , 2012, 539, A28.	5.1	86
41	Characterization of the hot Neptune GJ 436 b with <i>Spitzer</i> and ground-based observations. <i>Astronomy and Astrophysics</i> , 2007, 475, 1125-1129.	5.1	85
42	Two massive rocky planets transiting a K-dwarf 6.5 parsecs away. <i>Nature Astronomy</i> , 2017, 1, .	10.1	84
43	DISCOVERY AND ATMOSPHERIC CHARACTERIZATION OF GIANT PLANET KEPLER-12b: AN INFLATED RADIUS OUTLIER. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 9.	7.7	82
44	A SEMI-ANALYTICAL MODEL OF VISIBLE-WAVELENGTH PHASE CURVES OF EXOPLANETS AND APPLICATIONS TO KEPLER- 7 B AND KEPLER- 10 B. <i>Astrophysical Journal</i> , 2015, 802, 51.	4.5	80
45	WASP-80b has a dayside within the T-dwarf range. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2279-2290.	4.4	79
46	The 55 Cancri system reassessed. <i>Astronomy and Astrophysics</i> , 2018, 619, A1.	5.1	78
47	Stellar Parameters for Trappist-1. <i>Astrophysical Journal</i> , 2018, 853, 30.	4.5	71
48	The CORALIE survey for southern extra-solar planets. <i>Astronomy and Astrophysics</i> , 2008, 480, L33-L36.	5.1	70
49	TRANSIT CONFIRMATION AND IMPROVED STELLAR AND PLANET PARAMETERS FOR THE SUPER-EARTH HD 97658 b AND ITS HOST STAR. <i>Astrophysical Journal</i> , 2014, 786, 2.	4.5	70
50	VLT transit and occultation photometry for the bloated planet CoRoT-1b. <i>Astronomy and Astrophysics</i> , 2009, 506, 359-367.	5.1	68
51	THE ALBEDOS OF KEPLER' S CLOSE-IN SUPER-EARTHS. <i>Astrophysical Journal Letters</i> , 2014, 789, L20.	8.3	65
52	The hot dayside and asymmetric transit of WASP-189 b seen by CHEOPS. <i>Astronomy and Astrophysics</i> , 2020, 643, A94.	5.1	61
53	Hubble Space Telescope search for the transit of the Earth-mass exoplanet $\hat{\pm}$ Centauri B b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2043-2051.	4.4	60
54	Optical phase curves as diagnostics for aerosol composition in exoplanetary atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3420-3429.	4.4	60

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55	The CORALIE survey for southern extrasolar planets. <i>Astronomy and Astrophysics</i> , 2010, 511, A45.	5.1	57
56	THE ECCENTRICITY DISTRIBUTION OF SHORT-PERIOD PLANET CANDIDATES DETECTED BY KEPLER IN OCCULTATION. <i>Astrophysical Journal</i> , 2016, 820, 93.	4.5	55
57	The CORALIE survey for southern extrasolar planets. <i>Astronomy and Astrophysics</i> , 2013, 551, A90.	5.1	54
58	Transit detection of the long-period volatile-rich super-Earth $\hat{1}/2$ Lupi d with CHEOPS. <i>Nature Astronomy</i> , 2021, 5, 775-787.	10.1	51
59	<i><i>SPITZER</i> OBSERVATIONS OF GJ 3470 b: A VERY LOW-DENSITY NEPTUNE-SIZE PLANET ORBITING A METAL-RICH M DWARF. <i>Astrophysical Journal</i>, 2013, 768, 154.</i>	4.5	49
60	Retrieval Analysis of the Emission Spectrum of WASP-12b: Sensitivity of Outcomes to Prior Assumptions and Implications for Formation History. <i>Astrophysical Journal Letters</i> , 2017, 847, L3.	8.3	49
61	A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266. <i>Astronomy and Astrophysics</i> , 2020, 642, A49.	5.1	49
62	CHEOPS observations of the HD 108236 planetary system: a fifth planet, improved ephemerides, and planetary radii. <i>Astronomy and Astrophysics</i> , 2021, 646, A157.	5.1	47
63	CONFIRMATION OF HOT JUPITER KEPLER-41b VIA PHASE CURVE ANALYSIS. <i>Astrophysical Journal</i> , 2013, 767, 137.	4.5	46
64	High-precision multiwavelength eclipse photometry of the ultra-hot gas giant exoplanet WASP-103â€%b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2334-2351.	4.4	46
65	A Review of Possible Planetary Atmospheres in the TRAPPIST-1 System. <i>Space Science Reviews</i> , 2020, 216, 100.	8.1	46
66	SPECULOOS: Ultracool dwarf transit survey. <i>Astronomy and Astrophysics</i> , 2021, 645, A100.	5.1	46
67	KEPLER-15b: A HOT JUPITER ENRICHED IN HEAVY ELEMENTS AND THE FIRST <i><i>KEPLER</i> MISSION PLANET CONFIRMED WITH THE HOBBY-EBERLY TELESCOPE. <i>Astrophysical Journal, Supplement Series</i>, 2011, 197, 13.</i>	7.7	45
68	TRAPPIST-1: Global results of the <i><i>Spitzer</i> Exploration Science Program Red Worlds. <i>Astronomy and Astrophysics</i>, 2020, 640, A112.</i>	5.1	45
69	Exploring the Atmospheric Dynamics of the Extreme Ultrahot Jupiter KELT-9b Using TESS Photometry. <i>Astronomical Journal</i> , 2020, 160, 88.	4.7	44
70	Search for a habitable terrestrial planet transiting the nearby red dwarf GJâ€%1214. <i>Astronomy and Astrophysics</i> , 2014, 563, A21.	5.1	43
71	FORS2 observes a multi-epoch transmission spectrum of the hot Saturn-mass exoplanet WASP-49b. <i>Astronomy and Astrophysics</i> , 2016, 587, A67.	5.1	42
72	Investigating hot-Jupiter inflated radii with hierarchical Bayesian modelling. <i>Astronomy and Astrophysics</i> , 2018, 616, A76.	5.1	41

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73	A new yield simulator for transiting planets and false positives: application to the Next Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3379-3389.	4.4	40
74	Sodium and Potassium Signatures of Volcanic Satellites Orbiting Close-in Gas Giant Exoplanets. <i>Astrophysical Journal</i> , 2019, 885, 168.	4.5	38
75	SPECULOOS: a network of robotic telescopes to hunt for terrestrial planets around the nearest ultracool dwarfs. , 2018, , .		38
76	PROBING TRAPPIST-1-LIKE SYSTEMS WITH K2. <i>Astrophysical Journal Letters</i> , 2016, 825, L25.	8.3	31
77	A short-period super-Earth orbiting the M2.5 dwarf GJ3634. <i>Astronomy and Astrophysics</i> , 2011, 528, A111.	5.1	30
78	CHEOPS precision phase curve of the Super-Earth 55 Cancri e. <i>Astronomy and Astrophysics</i> , 2021, 653, A173.	5.1	30
79	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1043-1071.	4.4	30
80	The 0.8–4.5 μ m Broadband Transmission Spectra of TRAPPIST-1 Planets. <i>Astronomical Journal</i> , 2018, 156, 218.	4.7	29
81	Demonstrating High-precision Photometry with a CubeSat: ASTERIA Observations of 55 Cancri e. <i>Astronomical Journal</i> , 2020, 160, 23.	4.7	29
82	The red dwarf pair GJ65AB: inflated, spinning twins of Proxima. <i>Astronomy and Astrophysics</i> , 2016, 593, A127.	5.1	28
83	Spi-OPS: Spitzer and CHEOPS confirm the near-polar orbit of MASCARA-1 b and reveal a hint of dayside reflection. <i>Astronomy and Astrophysics</i> , 2022, 658, A75.	5.1	25
84	Photometry and performance of SPECULOOS-South. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2446-2457.	4.4	24
85	An eclipsing substellar binary in a young triple system discovered by SPECULOOS. <i>Nature Astronomy</i> , 2020, 4, 650-657.	10.1	24
86	A large sub-Neptune transiting the thick-disk M4 V TOI-2406. <i>Astronomy and Astrophysics</i> , 2021, 653, A97.	5.1	20
87	CHEOPS geometric albedo of the hot Jupiter HD 209458 b. <i>Astronomy and Astrophysics</i> , 2022, 659, L4.	5.1	20
88	Impact of tides on the transit-timing fits to the TRAPPIST-1 system. <i>Astronomy and Astrophysics</i> , 2020, 635, A117.	5.1	19
89	Multi-season optical modulation phased with the orbit of the super-Earth 55 Cancri e. <i>Astronomy and Astrophysics</i> , 2019, 631, A129.	5.1	18
90	Exploiting timing capabilities of the CHEOPS mission with warm-Jupiter planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3810-3830.	4.4	18

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91	A search for transiting planets around hot subdwarfs. <i>Astronomy and Astrophysics</i> , 2021, 650, A205.	5.1	18
92	Non-detection of Contamination by Stellar Activity in the Spitzer Transit Light Curves of TRAPPIST-1. <i>Astrophysical Journal Letters</i> , 2018, 863, L32.	8.3	17
93	A transit timing variation observed for the long-period extremely low-density exoplanet HIP 41378 f. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 504, L45-L50.	3.3	15
94	Ground-based follow-up observations of TRAPPIST-1 transits in the near-infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1634-1652.	4.4	13
95	Occurrence rate of exoplanets orbiting ultracool dwarfs as probed by K2. <i>Astronomy and Astrophysics</i> , 2020, 641, A170.	5.1	13
96	Hemispheric Tectonics on Super-Earth LHS 3844b. <i>Astrophysical Journal Letters</i> , 2021, 908, L48.	8.3	12
97	Complex Modulation of Rapidly Rotating Young M Dwarfs: Adding Pieces to the Puzzle. <i>Astronomical Journal</i> , 2022, 163, 144.	4.7	12
98	The <i>Spitzer</i> search for the transits of HARPS low-mass planets. <i>Astronomy and Astrophysics</i> , 2010, 518, A25.	5.1	11
99	An educated search for transiting habitable planets. <i>Astronomy and Astrophysics</i> , 2011, 525, A32.	5.1	10
100	Transit Timing Variations for AU Microscopii b and c. <i>Astronomical Journal</i> , 2022, 164, 27.	4.7	10
101	The <i>Spitzer</i> search for the transits of HARPS low-mass planets. <i>Astronomy and Astrophysics</i> , 2017, 601, A117.	5.1	9
102	Weak evidence for variable occultation depth of 55 Cnc e with TESS. <i>Astronomy and Astrophysics</i> , 2022, 663, A95.	5.1	9
103	Ë Earth: A 3.14 day Earth-sized Planet from K2's Kitchen Served Warm by the SPECULOOS Team. <i>Astronomical Journal</i> , 2020, 160, 172.	4.7	8
104	Monitoring precipitable water vapour in near real-time to correct near-infrared observations using satellite remote sensing. <i>Astronomy and Astrophysics</i> , 2021, 649, A132.	5.1	6
105	Biosignatures of the Earth. <i>Astronomy and Astrophysics</i> , 2021, 651, A68.	5.1	6
106	Refraction in exoplanet atmospheres. <i>Astronomy and Astrophysics</i> , 2018, 609, A90.	5.1	5
107	A PRECISE PHYSICAL ORBIT FOR THE M-DWARF BINARY GLIESE 268. <i>Astrophysical Journal</i> , 2012, 760, 55.	4.5	3
108	Hunt for Starspots in HARPS Spectra of G and K Stars. <i>Astronomical Journal</i> , 2020, 160, 5.	4.7	3

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109	A snapshot full-Stokes spectropolarimeter for detecting life on Earth. , 2019, , .		3
110	GJ 436c? The contribution of transit timings. Proceedings of the International Astronomical Union, 2008, 4, 424-427.	0.0	2
111	Hot Jupiter secondary eclipses measured by Kepler. Proceedings of the International Astronomical Union, 2010, 6, 475-476.	0.0	2
112	HD 219134 Revisited: Planet d Transit Upper Limit and Planet f Transit Nondetection with ASTERIA and TESS. Astronomical Journal, 2021, 161, 117.	4.7	2
113	Transit Search for Exoplanets around Alpha Centauri A and B with ASTERIA. Astronomical Journal, 2021, 161, 275.	4.7	2
114	Detecting life outside our solar system with a large high-contrast-imaging mission. Experimental Astronomy, 0, , 1.	3.7	2
115	Development of the SPECULOOS exoplanet search project. , 2020, , .		1
116	Design of the life signature detection polarimeter LSDpol. , 2020, , .		1
117	Accurate <i>Spitzer</i> infrared radius measurement for the hot Neptune GJ 436b. Astronomy and Astrophysics, 2008, 490, L1-L1.	5.1	0
118	Mass-Radius relation of low-mass stars revisited with the VLTI. , 2009, , .		0
119	Ultra-precise Masses and Magnitudes for the Gliese 268 M-dwarf Binary. , 2009, , .		0
120	The Spitzer search for the transits of HARPS low-mass planets. Proceedings of the International Astronomical Union, 2010, 6, 167-170.	0.0	0
121	55 Cancri. , 2021, , 1-3.		0