

Stéphane Udry

List of Publications by Year in descending order

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127
papers

11,083
citations

61945

43
h-index

32815

100
g-index

130
all docs

130
docs citations

130
times ranked

5318
citing authors

#	ARTICLE	IF	CITATIONS
1	Transiting Exoplanet Survey Satellite. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2014, 1, 014003.	1.0	2,300
2	A super-Earth transiting a nearby low-mass star. <i>Nature</i> , 2009, 462, 891-894.	13.7	672
3	Statistical Properties of Exoplanets. <i>Annual Review of Astronomy and Astrophysics</i> , 2007, 45, 397-439.	8.1	423
4	A giant comet-like cloud of hydrogen escaping the warm Neptune-mass exoplanet GJ 436b. <i>Nature</i> , 2015, 522, 459-461.	13.7	383
5	An Earth-mass planet orbiting $\hat{\iota}$ Centauri B. <i>Nature</i> , 2012, 491, 207-211.	13.7	361
6	An extrasolar planetary system with three Neptune-mass planets. <i>Nature</i> , 2006, 441, 305-309.	13.7	317
7	Detection of a Neptune-Mass Planet in the $\hat{\iota}$ 1 Cancri System Using the Hobby-Eberly Telescope. <i>Astrophysical Journal</i> , 2004, 614, L81-L84.	1.6	299
8	A temperate rocky super-Earth transiting a nearby cool star. <i>Nature</i> , 2017, 544, 333-336.	13.7	275
9	The Spectroscopic Orbit of the Planetary Companion Transiting HD 209458. <i>Astrophysical Journal</i> , 2000, 532, L55-L58.	1.6	257
10	The Broadband Infrared Emission Spectrum of the Exoplanet HD 189733b. <i>Astrophysical Journal</i> , 2008, 686, 1341-1348.	1.6	253
11	Harps-N: the new planet hunter at TNG. <i>Proceedings of SPIE</i> , 2012, , .	0.8	219
12	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. <i>Astrophysical Journal</i> , 2015, 800, 135.	1.6	211
13	A rocky planet transiting a nearby low-mass star. <i>Nature</i> , 2015, 527, 204-207.	13.7	204
14	An Earth-sized planet with an Earth-like density. <i>Nature</i> , 2013, 503, 377-380.	13.7	199
15	The TESS Objects of Interest Catalog from the TESS Prime Mission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 39.	3.0	190
16	The Next Generation Transit Survey (NGTS). <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4476-4493.	1.6	189
17	Nightside condensation of iron in an ultrahot giant exoplanet. <i>Nature</i> , 2020, 580, 597-601.	13.7	178
18	Enhanced lithium depletion in Sun-like stars with orbiting planets. <i>Nature</i> , 2009, 462, 189-191.	13.7	164

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19	THE KEPLER-10 PLANETARY SYSTEM REVISITED BY HARPS-N: A HOT ROCKY WORLD AND A SOLID NEPTUNE-MASS PLANET. <i>Astrophysical Journal</i> , 2014, 789, 154.	1.6	164
20	TESS Discovery of a Transiting Super-Earth in the pi Mensae System. <i>Astrophysical Journal Letters</i> , 2018, 868, L39.	3.0	148
21	THE MASS OF CoRoT-7b. <i>Astrophysical Journal</i> , 2011, 743, 75.	1.6	127
22	HARPS-N OBSERVES THE SUN AS A STAR. <i>Astrophysical Journal Letters</i> , 2015, 814, L21.	3.0	112
23	TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844. <i>Astrophysical Journal Letters</i> , 2019, 871, L24.	3.0	108
24	CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. <i>Astrophysical Journal</i> , 2015, 800, 59.	1.6	104
25	An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. <i>Astronomical Journal</i> , 2018, 155, 107.	1.9	103
26	Fast-moving features in the debris disk around AU Microscopii. <i>Nature</i> , 2015, 526, 230-232.	13.7	95
27	NGTS-1b: a hot Jupiter transiting an M-dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4467-4475.	1.6	91
28	Threeâ€™s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. <i>Astronomical Journal</i> , 2017, 154, 122.	1.9	90
29	A 1.9 EARTH RADIUS ROCKY PLANET AND THE DISCOVERY OF A NON-TRANSITING PLANET IN THE KEPLER-20 SYSTEM*. <i>Astronomical Journal</i> , 2016, 152, 160.	1.9	85
30	Two massive rocky planets transiting a K-dwarf 6.5â€‰%parsecs away. <i>Nature Astronomy</i> , 2017, 1, .	4.2	84
31	HARPS: a new high-resolution spectrograph for the search of extrasolar planets. , 2000, , .		83
32	A Second Terrestrial Planet Orbiting the Nearby M Dwarf LHS 1140. <i>Astronomical Journal</i> , 2019, 157, 32.	1.9	83
33	KEPLER-21b: A ROCKY PLANET AROUND A V=8.25 mag STAR*. <i>Astronomical Journal</i> , 2016, 152, 204.	1.9	80
34	WASP-80b has a dayside within the T-dwarf range. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2279-2290.	1.6	79
35	A remnant planetary core in the hot-Neptune desert. <i>Nature</i> , 2020, 583, 39-42.	13.7	73
36	TESS Delivers Its First Earth-sized Planet and a Warm Sub-Neptune*. <i>Astrophysical Journal Letters</i> , 2019, 875, L7.	3.0	69

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37	Precise Masses in the WASP-47 System. <i>Astronomical Journal</i> , 2017, 154, 237.	1.9	66
38	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. <i>Nature Astronomy</i> , 2019, 3, 416-423.	4.2	64
39	A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. <i>Astronomical Journal</i> , 2020, 160, 3.	1.9	62
40	Hubble Space Telescope search for the transit of the Earth-mass exoplanet $\hat{\pm}$ Centauri Bâb. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2043-2051.	1.6	60
41	Three Red Suns in the Sky: A Transiting, Terrestrial Planet in a Triple M-dwarf System at 6.9 pc. <i>Astronomical Journal</i> , 2019, 158, 152.	1.9	59
42	THE ORBIT AND MASS OF THE THIRD PLANET IN THE KEPLER-56 SYSTEM. <i>Astronomical Journal</i> , 2016, 152, 165.	1.9	58
43	The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations. <i>Astronomical Journal</i> , 2017, 153, 224.	1.9	58
44	TOI-1338: TESSâ€™ First Transiting Circumbinary Planet. <i>Astronomical Journal</i> , 2020, 159, 253.	1.9	58
45	The EBLM Project. <i>Astronomy and Astrophysics</i> , 2017, 608, A129.	2.1	56
46	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95.	1.6	55
47	Transit detection of the long-period volatile-rich super-Earth $\hat{\pm}$ 2 Lupi d with CHEOPS. <i>Nature Astronomy</i> , 2021, 5, 775-787.	4.2	51
48	<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.	1.6	49
49	NGTS-4b: A sub-Neptune transiting in the desert. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5094-5103.	1.6	47
50	Centroid vetting of transiting planet candidates from the Next Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 295-307.	1.6	46
51	An ultrahot Neptune in the Neptune desert. <i>Nature Astronomy</i> , 2020, 4, 1148-1157.	4.2	43
52	KELT-14b AND KELT-15b: AN INDEPENDENT DISCOVERY OF WASP-122b AND A NEW HOT JUPITER. <i>Astronomical Journal</i> , 2016, 151, 138.	1.9	42
53	A search for starlight reflected from HD 75289b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, L16-L20.	1.6	40
54	Two Intermediate-mass Transiting Brown Dwarfs from the TESS Mission. <i>Astronomical Journal</i> , 2020, 160, 53.	1.9	39

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55	KELT-10b: the first transiting exoplanet from the KELT-South survey â€” a hot sub-Jupiter transiting a $V = 10.7$ early G-star. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4281-4298.	1.6	38
56	HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright ($V = 7.9$) star unveiled by TESS. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2982-2999.	1.6	38
57	K2-114b and K2-115b: Two Transiting Warm Jupiters. Astronomical Journal, 2017, 154, 188.	1.9	36
58	The BEBOP radial-velocity survey for circumbinary planets. Astronomy and Astrophysics, 2019, 624, A68.	2.1	36
59	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.	1.6	35
60	Near-resonance in a System of Sub-Neptunes from TESS. Astronomical Journal, 2019, 158, 177.	1.9	34
61	ROSSITER-MCLAUGHLIN OBSERVATIONS OF 55 Cnc e. Astrophysical Journal Letters, 2014, 792, L31.	3.0	33
62	HD 2685 b: a hot Jupiter orbiting an early F-type star detected by TESS. Astronomy and Astrophysics, 2019, 625, A16.	2.1	33
63	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.	1.6	33
64	TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs. Astronomical Journal, 2020, 160, 22.	1.9	33
65	Hot, rocky and warm, puffy super-Earths orbiting TOI-402 (HD 15337). Astronomy and Astrophysics, 2019, 627, A43.	2.1	30
66	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.	1.6	30
67	Simultaneous TESS and NGTS transit observations of WASP-166b. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5872-5881.	1.6	30
68	NGTS-11 b (TOI-1847 b): A Transiting Warm Saturn Recovered from a TESS Single-transit Event. Astrophysical Journal Letters, 2020, 898, L11.	3.0	30
69	GJ 367b: A dense, ultrashort-period sub-Earth planet transiting a nearby red dwarf star. Science, 2021, 374, 1271-1275.	6.0	30
70	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1043-1071.	1.6	30
71	Kuiper belt structure around nearby super-Earth host stars. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3121-3136.	1.6	28
72	WASP-128b: a transiting brown dwarf in the dynamical-tide regime. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5091-5097.	1.6	26

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73	TOI-1634 b: An Ultra-short-period Keystone Planet Sitting inside the M-dwarf Radius Valley. <i>Astronomical Journal</i> , 2021, 162, 79.	1.9	25
74	TESS Reveals a Short-period Sub-Neptune Sibling (HD 86226c) to a Known Long-period Giant Planet*. <i>Astronomical Journal</i> , 2020, 160, 96.	1.9	25
75	A NEW ANALYSIS OF THE EXOPLANET HOSTING SYSTEM HD 6434. <i>Astronomical Journal</i> , 2015, 150, 169.	1.9	24
76	Automatic vetting of planet candidates from ground-based surveys: machine learning with NGTS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4225-4237.	1.6	23
77	TOI-481 b and TOI-892 b: Two Long-period Hot Jupiters from the Transiting Exoplanet Survey Satellite. <i>Astronomical Journal</i> , 2020, 160, 235.	1.9	23
78	A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds. <i>Astronomical Journal</i> , 2022, 163, 168.	1.9	23
79	Ground-based detection of G star superflares with NGTS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4655-4664.	1.6	22
80	Transits of Known Planets Orbiting a Naked-eye Star. <i>Astronomical Journal</i> , 2020, 160, 129.	1.9	22
81	The EBLM Project. <i>Astronomy and Astrophysics</i> , 2019, 625, A150.	2.1	21
82	Classifying exoplanet candidates with convolutional neural networks: application to the Next Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5232-5250.	1.6	20
83	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021, 161, 235.	1.9	20
84	Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. <i>Astronomical Journal</i> , 2022, 164, 49.	1.9	20
85	An Accurate Mass Determination for Kepler-1655b, a Moderately Irradiated World with a Significant Volatile Envelope. <i>Astronomical Journal</i> , 2018, 155, 203.	1.9	19
86	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.	1.6	19
87	Unmasking the hidden NGTS-3Ab: a hot Jupiter in an unresolved binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4720-4737.	1.6	18
88	NGTS-10b: the shortest period hot Jupiter yet discovered. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 126-140.	1.6	18
89	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.	2.1	18
90	Shallow transit follow-up from Next Generation Transit Survey: Simultaneous observations of HD 106315 with 11 identical telescopes. <i>Astronomische Nachrichten</i> , 2020, 341, 273-282.	0.6	17

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91	Detection Limits of Low-mass, Long-period Exoplanets Using Gaussian Processes Applied to HARPS-N Solar Radial Velocities. <i>Astronomical Journal</i> , 2021, 161, 287.	1.9	17
92	BEBOP II: sensitivity to sub-Saturn circumbinary planets using radial-velocities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 3571-3583.	1.6	17
93	Peculiar architectures for the WASP-53 and WASP-81 planet-hosting systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx154.	1.6	16
94	NGTS-2b: an inflated hot-Jupiter transiting a bright F-dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4960-4970.	1.6	16
95	TOI-150b and TOI-163b: two transiting hot Jupiters, one eccentric and one inflated, revealed by TESS near and at the edge of the JWST CVZ. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1094-1110.	1.6	16
96	BEBOP III. Observations and an independent mass measurement of Kepler-16(AB)b – the first circumbinary planet detected with radial velocities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 3561-3570.	1.6	16
97	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. <i>Astronomical Journal</i> , 2019, 158, 165.	1.9	14
98	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.	1.6	14
99	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.	1.6	14
100	K2-291b: A Rocky Super-Earth in a 2.2 day Orbit –. <i>Astronomical Journal</i> , 2019, 157, 116.	1.9	13
101	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.	1.6	12
102	TOI 694b and TIC 220568520b: Two Low-mass Companions near the Hydrogen-burning Mass Limit Orbiting Sun-like Stars. <i>Astronomical Journal</i> , 2020, 160, 133.	1.9	12
103	The Science of Exoplanets and Their Systems. <i>Astrobiology</i> , 2013, 13, 793-813.	1.5	10
104	Using HARPS-N to characterize the long-period planets in the PH-2 and Kepler-103 systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5103-5121.	1.6	10
105	An eclipsing M-dwarf close to the hydrogen burning limit from NGTS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3115-3124.	1.6	10
106	The EBLM project – VII. Spin-orbit alignment for the circumbinary planet host EBLM J0608-59A/TOI-1338A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1627-1633.	1.6	10
107	Resolving period aliases for TESS monotransits recovered during the extended mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5088-5097.	1.6	9
108	STELLAR VARIABILITY OF THE EXOPLANET HOSTING STAR HD 63454. <i>Astrophysical Journal</i> , 2011, 737, 58.	1.6	8

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109	HATS-47b, HATS-48Ab, HATS-49b, and HATS-72b: Four Warm Giant Planets Transiting K Dwarfs*. <i>Astronomical Journal</i> , 2020, 159, 173.	1.9	8
110	TOI-954 b and K2-329 b: Short-period Saturn-mass Planets that Test whether Irradiation Leads to Inflation. <i>Astronomical Journal</i> , 2021, 161, 82.	1.9	8
111	A possible dividing line between massive planets and brown-dwarf companions. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 117-120.	0.0	7
112	NGTS-12b: A sub-Saturn mass transiting exoplanet in a 7.53â€‰day orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3139-3148.	1.6	6
113	NGTS J214358.5âˆ³380102 â€œ NGTS discovery of the most eccentric known eclipsing M-dwarf binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3950-3961.	1.6	6
114	Transit timings variations in the three-planet system: TOI-270. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 5464-5485.	1.6	6
115	NGTS 15b, 16b, 17b, and 18b: four hot Jupiters from the Next-Generation Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 6018-6032.	1.6	5
116	Two Transiting Hot Jupiters from the WASP Survey: WASP-150b and WASP-176b. <i>Astronomical Journal</i> , 2020, 159, 255.	1.9	4
117	TIC-320687387 B: a long-period eclipsing M-dwarf close to the hydrogen burning limit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1785-1793.	1.6	4
118	Volatiles and refractories in solar analogs: No terrestrial planet connection. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 422-423.	0.0	3
119	NGTS-13b: a hot 4.8 Jupiter-mass planet transiting a subgiant star. <i>Astronomy and Astrophysics</i> , 2021, 647, A180.	2.1	3
120	High-Precision Spectrographs for Exoplanet Research: CORAVEL, ELODIE, CORALIE, SOPHIE and HARPS. , 2018, , 1-28.		2
121	Stellar noise and planet detection. I. Oscillations, granulation and sun-like spots. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 527-529.	0.0	1
122	Scintillation-limited photometry with the 20-cm NGTS telescopes at Paranal Observatory. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	1
123	DIVISION IX: OPTICAL AND INFRARED TECHNIQUES. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 185-187.	0.0	0
124	COMMISSION 30: RADIAL VELOCITIES. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 316-325.	0.0	0
125	COMMISSION 30: RADIAL VELOCITIES. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 281-289.	0.0	0
126	GRAPHIC: The Geneva Reduction and Analysis Pipeline for High-contrast Imaging of planetary Companions. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 38-39.	0.0	0

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127	DIVISION IX: COMMISSION 30: RADIAL VELOCITIES. Proceedings of the International Astronomical Union, 2013, 10, 132-133.	0.0	0