

Xavier Dumusque

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,577
citations

147801

31
h-index

149698

56
g-index

61
all docs

61
docs citations

61
times ranked

2397
citing authors

#	ARTICLE	IF	CITATIONS
1	An Earth-mass planet orbiting $\hat{1}\pm$ Centauri B. <i>Nature</i> , 2012, 491, 207-211.	27.8	361
2	State of the Field: Extreme Precision Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 066001.	3.1	253
3	SOAP 2.0: A TOOL TO ESTIMATE THE PHOTOMETRIC AND RADIAL VELOCITY VARIATIONS INDUCED BY STELLAR SPOTS AND PLAGES. <i>Astrophysical Journal</i> , 2014, 796, 132.	4.5	213
4	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. <i>Astrophysical Journal</i> , 2015, 800, 135.	4.5	211
5	An Earth-sized planet with an Earth-like density. <i>Nature</i> , 2013, 503, 377-380.	27.8	199
6	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.	4.5	164
7	HARPS-N OBSERVES THE SUN AS A STAR. <i>Astrophysical Journal Letters</i> , 2015, 814, L21.	8.3	112
8	Measuring precise radial velocities on individual spectral lines. <i>Astronomy and Astrophysics</i> , 2018, 620, A47.	5.1	108
9	CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. <i>Astrophysical Journal</i> , 2015, 800, 59.	4.5	104
10	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.	4.7	103
11	Radial-velocity fitting challenge. <i>Astronomy and Astrophysics</i> , 2017, 598, A133.	5.1	87
12	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.	4.7	85
13	KEPLER-21b: A ROCKY PLANET AROUND A $V\hat{A}=\hat{A}8.25$ mag STAR*. <i>Astronomical Journal</i> , 2016, 152, 204.	4.7	80
14	A remnant planetary core in the hot-Neptune desert. <i>Nature</i> , 2020, 583, 39-42.	27.8	73
15	Insights on the Spectral Signatures of Stellar Activity and Planets from PCA. <i>Astrophysical Journal</i> , 2017, 846, 59.	4.5	69
16	TESS Delivers Its First Earth-sized Planet and a Warm Sub-Neptune*. <i>Astrophysical Journal Letters</i> , 2019, 875, L7.	8.3	69
17	Precise Masses in the WASP-47 System. <i>Astronomical Journal</i> , 2017, 154, 237.	4.7	66
18	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. <i>Nature Astronomy</i> , 2019, 3, 416-423.	10.1	64

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19	A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. <i>Astronomical Journal</i> , 2020, 160, 3.	4.7	62
20	Hubble Space Telescope search for the transit of the Earth-mass exoplanet $\hat{\iota}$ Centauri BAb. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2043-2051.	4.4	60
21	CHARACTERIZATION OF A SPURIOUS ONE-YEAR SIGNAL IN HARPS DATA. <i>Astrophysical Journal</i> , 2015, 808, 171.	4.5	59
22	HARPS-N Solar RVs Are Dominated by Large, Bright Magnetic Regions. <i>Astrophysical Journal</i> , 2019, 874, 107.	4.5	59
23	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.	4.7	58
24	Three years of HARPS-N high-resolution spectroscopy and precise radial velocity data for the Sun. <i>Astronomy and Astrophysics</i> , 2021, 648, A103.	5.1	58
25	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95.	4.5	55
26	Measuring precise radial velocities on individual spectral lines. <i>Astronomy and Astrophysics</i> , 2020, 633, A76.	5.1	55
27	Radial velocity fitting challenge. <i>Astronomy and Astrophysics</i> , 2016, 593, A5.	5.1	55
28	The HARPS search for southern extra-solar planets. <i>Astronomy and Astrophysics</i> , 2019, 622, A37.	5.1	42
29	HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright ($\langle V \rangle = 7.9$) star unveiled by TESS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2982-2999.	4.4	38
30	ON THE RADIAL VELOCITY DETECTION OF ADDITIONAL PLANETS IN TRANSITING, SLOWLY ROTATING M-DWARF SYSTEMS: THE CASE OF GJ 1132. <i>Astronomical Journal</i> , 2017, 153, 9.	4.7	37
31	ROSSITER-MCLAUGHLIN OBSERVATIONS OF 55 Cnc e. <i>Astrophysical Journal Letters</i> , 2014, 792, L31.	8.3	33
32	TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 22.	4.7	33
33	YARARA: Significant improvement in RV precision through post-processing of spectral time series. <i>Astronomy and Astrophysics</i> , 2021, 653, A43.	5.1	33
34	Temporal evolution and correlations of optical activity indicators measured in Sun-as-a-star observations. <i>Astronomy and Astrophysics</i> , 2019, 627, A118.	5.1	31
35	Hot, rocky and warm, puffy super-Earths orbiting TOI-402 (HD 15337). <i>Astronomy and Astrophysics</i> , 2019, 627, A43.	5.1	30
36	Exoplanet characterisation in the longest known resonant chain: the K2-138 system seen by HARPS. <i>Astronomy and Astrophysics</i> , 2019, 631, A90.	5.1	27

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37	TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert. <i>Astronomical Journal</i> , 2020, 160, 153.	4.7	27
38	The EXPRES Stellar Signals Project II. State of the Field in Disentangling Photospheric Velocities. <i>Astronomical Journal</i> , 2022, 163, 171.	4.7	27
39	TOI-1634 b: An Ultra-short-period Keystone Planet Sitting inside the M-dwarf Radius Valley. <i>Astronomical Journal</i> , 2021, 162, 79.	4.7	25
40	RASSINE: Interactive tool for normalising stellar spectra. <i>Astronomy and Astrophysics</i> , 2020, 640, A42.	5.1	24
41	An astro-comb calibrated solar telescope to search for the radial velocity signature of Venus. <i>Proceedings of SPIE</i> , 2016, , .	0.8	22
42	Transits of Known Planets Orbiting a Naked-eye Star. <i>Astronomical Journal</i> , 2020, 160, 129.	4.7	22
43	Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. <i>Astronomical Journal</i> , 2022, 164, 49.	4.7	20
44	An Accurate Mass Determination for Kepler-1655b, a Moderately Irradiated World with a Significant Volatile Envelope. <i>Astronomical Journal</i> , 2018, 155, 203.	4.7	19
45	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
46	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.	4.7	17
47	Testing the Spectroscopic Extraction of Suppression of Convective Blueshift. <i>Astrophysical Journal</i> , 2020, 888, 117.	4.5	15
48	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. <i>Astronomical Journal</i> , 2019, 158, 165.	4.7	14
49	K2-291b: A Rocky Super-Earth in a 2.2 day Orbit [*] â€. <i>Astronomical Journal</i> , 2019, 157, 116.	4.7	13
50	Predictions of Planet Detections with Near-infrared Radial Velocities in the Upcoming SPIRou Legacy Survey-planet Search. <i>Astronomical Journal</i> , 2018, 155, 93.	4.7	11
51	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.	4.4	10
52	Long-term stellar activity variations and their effect on radial-velocity measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 830-850.	4.4	10
53	Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network. <i>Astrophysical Journal</i> , 2021, 920, 21.	4.5	10
54	Toward Extremely Precise Radial Velocities. I. Simulated Solar Spectra for Testing Exoplanet Detection Algorithms. <i>Research Notes of the AAS</i> , 2020, 4, 59.	0.7	6

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55	Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf. <i>Astronomical Journal</i> , 2021, 162, 238.	4.7	5
56	Spectral Line Depth Variability in Radial Velocity Spectra. <i>Astrophysical Journal</i> , 2022, 930, 121.	4.5	5
57	Stellar noise and planet detection. II. Radial-velocity noise induced by magnetic cycles. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 530-532.	0.0	3
58	K2-79b and K2-222b: Mass Measurements of Two Small Exoplanets with Periods beyond 10 days that Overlap with Periodic Magnetic Activity Signals. <i>Astronomical Journal</i> , 2022, 163, 41.	4.7	3
59	Improving exoplanet detection power: Multivariate Gaussian process models for stellar activity. <i>Annals of Applied Statistics</i> , 2022, 16, .	1.1	3
60	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