

Yann Alibert

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,775
citations

279778

23
h-index

361001

35
g-index

40
all docs

40
docs citations

40
times ranked

2114
citing authors

#	ARTICLE	IF	CITATIONS
1	Can we constrain the interior structure of rocky exoplanets from mass and radius measurements?. <i>Astronomy and Astrophysics</i> , 2015, 577, A83.	5.1	199
2	A generalized Bayesian inference method for constraining the interiors of super Earths and sub-Neptunes. <i>Astronomy and Astrophysics</i> , 2017, 597, A37.	5.1	121
3	Planet formation with envelope enrichment: new insights on planetary diversity. <i>Astronomy and Astrophysics</i> , 2016, 596, A90.	5.1	93
4	A water budget dichotomy of rocky protoplanets from ²⁶ Al-heating. <i>Nature Astronomy</i> , 2019, 3, 307-313.	10.1	91
5	From stellar nebula to planets: The refractory components. <i>Astronomy and Astrophysics</i> , 2014, 562, A27.	5.1	83
6	Elemental ratios in stars vs planets. <i>Astronomy and Astrophysics</i> , 2015, 580, A30.	5.1	82
7	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A72.	5.1	82
8	The formation of Jupiter by hybrid pebble+planetesimal accretion. <i>Nature Astronomy</i> , 2018, 2, 873-877.	10.1	81
9	DETERMINATION OF THE MINIMUM MASSES OF HEAVY ELEMENTS IN THE ENVELOPES OF JUPITER AND SATURN. <i>Astrophysical Journal</i> , 2009, 696, 1348-1354.	4.5	76
10	High precision astrometry mission for the detection and characterization of nearby habitable planetary systems with the Nearby Earth Astrometric Telescope (NEAT). <i>Experimental Astronomy</i> , 2012, 34, 385-413.	3.7	73
11	CLATHRATION OF VOLATILES IN THE SOLAR NEBULA AND IMPLICATIONS FOR THE ORIGIN OF TITAN'S ATMOSPHERE. <i>Astrophysical Journal</i> , 2009, 691, 1780-1786.	4.5	70
12	Microlensing Results Challenge the Core Accretion Runaway Growth Scenario for Gas Giants. <i>Astrophysical Journal Letters</i> , 2018, 869, L34.	8.3	66
13	From planetesimals to planets: volatile molecules. <i>Astronomy and Astrophysics</i> , 2014, 570, A36.	5.1	60
14	From stellar nebula to planetesimals. <i>Astronomy and Astrophysics</i> , 2014, 570, A35.	5.1	55
15	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
16	AQUA: a collection of H_2O equations of state for planetary models. <i>Astronomy and Astrophysics</i> , 2020, 643, A105.	5.1	51
17	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
18	Interior Characterization in Multiplanetary Systems: TRAPPIST-1. <i>Astrophysical Journal</i> , 2018, 865, 20.	4.5	49

#	ARTICLE	IF	CITATIONS
19	Maximum mass of planetary embryos that formed in core-accretion models. <i>Astronomy and Astrophysics</i> , 2017, 606, A69.	5.1	39
20	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009, 23, 849-892.	3.7	38
21	PROBING TRAPPIST-1-LIKE SYSTEMS WITH K2. <i>Astrophysical Journal Letters</i> , 2016, 825, L25.	8.3	31
22	Detection of Ongoing Mass Loss from HD 63433c, a Young Mini-Neptune. <i>Astronomical Journal</i> , 2022, 163, 68.	4.7	31
23	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
24	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515+414. <i>Astronomy and Astrophysics</i> , 2022, 658, A123.	5.1	30
25	A Maximum Radius for Habitable Planets. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 319-325.	1.9	22
26	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. <i>Astronomy and Astrophysics</i> , 2021, 646, A144.	5.1	18
27	New metric to quantify the similarity between planetary systems: application to dimensionality reduction using T-SNE. <i>Astronomy and Astrophysics</i> , 2019, 624, A45.	5.1	17
28	Carbonaceous Chondrites and the Condensation of Elements from the Solar Nebula. <i>Astrophysical Journal</i> , 2020, 897, 82.	4.5	15
29	Constraints from deuterium on the formation of icy bodies in the Jovian system and beyond. <i>Planetary and Space Science</i> , 2008, 56, 1585-1595.	1.7	14
30	Planetesimal formation at the gas pressure bump following a migrating planet. <i>Astronomy and Astrophysics</i> , 2020, 644, A81.	5.1	12
31	The Science of Exoplanets and Their Systems. <i>Astrobiology</i> , 2013, 13, 793-813.	3.0	10
32	Star-planet interactions. <i>Astronomy and Astrophysics</i> , 2017, 602, L7.	5.1	10
33	Planetary mass-radius relations across the galaxy. <i>Astronomy and Astrophysics</i> , 2020, 639, A66.	5.1	9
34	Possible Chemical Composition And Interior Structure Models Of Venus Inferred From Numerical Modelling. <i>Astrophysical Journal</i> , 2022, 926, 217.	4.5	9
35	Radial drift and concurrent ablation of boulder-sized objects. <i>Astronomy and Astrophysics</i> , 2019, 629, A64.	5.1	6