

Willy Benz

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,259
citations

172457

29
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

3635
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of the tidal deformation of WASP-103b at 3 σ with CHEOPS. <i>Astronomy and Astrophysics</i> , 2022, 657, A52.	5.1	22
2	Analysis of Early Science observations with the CHAracterising ExOPlanets Satellite (CHEOPS) using <i>pycheops</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 77-104.	4.4	38
3	Spi-OPS: <i>Spitzer</i> 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
4	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
5	The atmosphere and architecture of WASP-189 b probed by its CHEOPS phase curve. <i>Astronomy and Astrophysics</i> , 2022, 659, A74.	5.1	26
6	Transit timing variations of AU Microscopii b and c. <i>Astronomy and Astrophysics</i> , 2022, 659, L7.	5.1	12
7	CHEOPS geometric albedo of the hot Jupiter HD 209458 b. <i>Astronomy and Astrophysics</i> , 2022, 659, L4.	5.1	20
8	The CHEOPS mission. <i>Experimental Astronomy</i> , 2021, 51, 109-151.	3.7	140
9	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
10	Six transiting planets and a chain of Laplace resonances in TOI-178. <i>Astronomy and Astrophysics</i> , 2021, 649, A26.	5.1	94
11	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A72.	5.1	82
12	The EBLM project â€“ VIII. First results for M-dwarf mass, radius, and effective temperature measurements using CHEOPS light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 306-322.	4.4	15
13	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
14	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
15	A search for transiting planets around hot subdwarfs. <i>Astronomy and Astrophysics</i> , 2021, 650, A205.	5.1	18
16	The changing face of AU Mic b: stellar spots, spin-orbit commensurability, and transit timing variations as seen by CHEOPS and TESS. <i>Astronomy and Astrophysics</i> , 2021, 654, A159.	5.1	36
17	CHEOPS precision phase curve of the Super-Earth 55 Cancri e. <i>Astronomy and Astrophysics</i> , 2021, 653, A173.	5.1	30
18	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A71.	5.1	45

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19	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A70.	5.1	59
20	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
21	Pebbles versus planetesimals. <i>Astronomy and Astrophysics</i> , 2020, 640, A21.	5.1	25
22	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). <i>Astronomy and Astrophysics</i> , 2020, 635, A22.	5.1	12
23	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). <i>Astronomy and Astrophysics</i> , 2020, 635, A24.	5.1	69
24	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). <i>Astronomy and Astrophysics</i> , 2020, 635, A23.	5.1	13
25	Gravity-dominated Collisions: A Model for the Largest Remnant Masses with Treatment for Hit and Run and Density Stratification. <i>Astrophysical Journal</i> , 2020, 892, 40.	4.5	16
26	AQUA: a collection of H_2O equations of state for planetary models. <i>Astronomy and Astrophysics</i> , 2020, 643, A105.	5.1	51
27	Pebbles versus planetesimals: the case of Trappist-1. <i>Astronomy and Astrophysics</i> , 2019, 631, A7.	5.1	44
28	CHEOPS: the characterizing exoplanets satellite ready for launch. , 2019, , .		1
29	SPH calculations of Mars-scale collisions: The role of the equation of state, material rheologies, and numerical effects. <i>Icarus</i> , 2018, 301, 247-257.	2.5	56
30	CHEOPS: CHAracterizing ExOPlanets Satellite. , 2018, , 1257-1281.		10
31	Metallicity effect and planet mass function in pebble-based planet formation models. <i>Astronomy and Astrophysics</i> , 2018, 619, A174.	5.1	25
32	CHEOPS: the ESA mission for exo-planets characterization. , 2018, , .		6
33	From a demonstration model to the flight model: AIV procedures and results for CHEOPS telescope. , 2018, , .		1
34	Formation and composition of planets around very low mass stars. <i>Astronomy and Astrophysics</i> , 2017, 598, L5.	5.1	57
35	The CHEOPS (characterising exoplanet satellite) mission: telescope optical design, development status and main technical and programmatic challenges. , 2017, , .		3
36	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

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37	From planetesimals to planets: volatile molecules. <i>Astronomy and Astrophysics</i> , 2014, 570, A36.	5.1	60
38	The PLATO 2.0 mission. <i>Experimental Astronomy</i> , 2014, 38, 249-330.	3.7	912
39	Shaping the PSF to nearly top-hat profile: CHEOPS laboratory results. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
40	Theoretical models of planetary system formation: mass vs. semi-major axis. <i>Astronomy and Astrophysics</i> , 2013, 558, A109.	5.1	126
41	Planet formation models: the interplay with the planetesimal disc. <i>Astronomy and Astrophysics</i> , 2013, 549, A44.	5.1	94
42	Extrasolar planet population synthesis. <i>Astronomy and Astrophysics</i> , 2011, 526, A63.	5.1	110
43	Extrasolar planet population synthesis. <i>Astronomy and Astrophysics</i> , 2009, 501, 1139-1160.	5.1	406
44	Extrasolar planet population synthesis. <i>Astronomy and Astrophysics</i> , 2009, 501, 1161-1184.	5.1	253
45	The Origin of Mercury. <i>Space Science Reviews</i> , 2007, 132, 189-202.	8.1	179
46	Models of giant planet formation with migration and disc evolution. <i>Astronomy and Astrophysics</i> , 2005, 434, 343-353.	5.1	515
47	Migration and giant planet formation. <i>Astronomy and Astrophysics</i> , 2004, 417, L25-L28.	5.1	160
48	Smooth Particle Hydrodynamics: A Review. , 1990, , 269-288.		335
49	The origin of the Moon and the single-impact hypothesis III. <i>Icarus</i> , 1989, 81, 113-131.	2.5	353
50	Collisional stripping of Mercury's mantle. <i>Icarus</i> , 1988, 74, 516-528.	2.5	306