Willy Benz

List of Publications by Year
in descending order

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50	5,259	172457	233421
papers	citations	29 h-index	45 g-index

51	51	51	3635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The PLATO 2.0 mission. Experimental Astronomy, 2014, 38, 249-330.	3.7	912
2	Models of giant planet formation with migration and disc evolution. Astronomy and Astrophysics, 2005, 434, 343-353.	5.1	515
3	Extrasolar planet population synthesis. Astronomy and Astrophysics, 2009, 501, 1139-1160.	5.1	406
4	The origin of the Moon and the single-impact hypothesis III. Icarus, 1989, 81, 113-131.	2.5	353
5	Smooth Particle Hydrodynamics: A Review. , 1990, , 269-288.		335
6	Collisional stripping of Mercury's mantle. Icarus, 1988, 74, 516-528.	2.5	306
7	Extrasolar planet population synthesis. Astronomy and Astrophysics, 2009, 501, 1161-1184.	5.1	253
8	Can we constrain the interior structure of rocky exoplanets from mass and radius measurements?. Astronomy and Astrophysics, 2015, 577, A83.	5.1	199
9	The Origin of Mercury. Space Science Reviews, 2007, 132, 189-202.	8.1	179
10	Migration and giant planet formation. Astronomy and Astrophysics, 2004, 417, L25-L28.	5.1	160
11	The CHEOPS mission. Experimental Astronomy, 2021, 51, 109-151.	3.7	140
12	Theoretical models of planetary system formation: mass vs. semi-major axis. Astronomy and Astrophysics, 2013, 558, A109.	5.1	126
13	Extrasolar planet population synthesis. Astronomy and Astrophysics, 2011, 526, A63.	5.1	110
14	Planet formation models: the interplay with the planetesimal disc. Astronomy and Astrophysics, 2013, 549, A44.	5.1	94
15	Six transiting planets and a chain of Laplace resonances in TOI-178. Astronomy and Astrophysics, 2021, 649, A26.	5.1	94
16	The New Generation Planetary Population Synthesis (NGPPS). Astronomy and Astrophysics, 2021, 656, A72.	5.1	82
17	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). Astronomy and Astrophysics, 2020, 635, A24.	5.1	69
18	From planetesimals to planets: volatile molecules. Astronomy and Astrophysics, 2014, 570, A36.	5.1	60

#	Article	IF	Citations
19	The New Generation Planetary Population Synthesis (NGPPS). Astronomy and Astrophysics, 2021, 656, A70.	5.1	59
20	Formation and composition of planets around very low mass stars. Astronomy and Astrophysics, 2017, 598, L5.	5.1	57
21	SPH calculations of Mars-scale collisions: The role of the equation of state, material rheologies, and numerical effects. Icarus, 2018, 301, 247-257.	2.5	56
22	Transit detection of the long-period volatile-rich super-Earth Î½2 Lupi d with CHEOPS. Nature Astronomy, 2021, 5, 775-787.	10.1	51
23	AQUA: a collection of H₂O equations of state for planetary models. Astronomy and Astrophysics, 2020, 643, A105.	5.1	51
24	A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266. Astronomy and Astrophysics, 2020, 642, A49.	5.1	49
25	CHEOPS observations of the HD 108236 planetary system: a fifth planet, improved ephemerides, and planetary radii. Astronomy and Astrophysics, 2021, 646, A157.	5.1	47
26	The New Generation Planetary Population Synthesis (NGPPS). Astronomy and Astrophysics, 2021, 656, A71.	5.1	45
27	Pebbles versus planetesimals: the case of Trappist-1. Astronomy and Astrophysics, 2019, 631, A7.	5.1	44
28	Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (CHEOPS) using<scp>pycheops</scp>. Monthly Notices of the Royal Astronomical Society, 2022, 514, 77-104.	4.4	38
29	The changing face of AU Mic b: stellar spots, spin-orbit commensurability, and transit timing variations as seen by CHEOPS and TESS. Astronomy and Astrophysics, 2021, 654, A159.	5.1	36
30	CHEOPS precision phase curve of the Super-Earth 55 Cancri e. Astronomy and Astrophysics, 2021, 653, A173.	5.1	30
31	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.	4.4	30
32	The atmosphere and architecture of WASP-189 b probed by its CHEOPS phase curve. Astronomy and Astrophysics, 2022, 659, A74.	5.1	26
33	Metallicity effect and planet mass function in pebble-based planet formation models. Astronomy and Astrophysics, 2018, 619, A174.	5.1	25
34	Pebbles versus planetesimals. Astronomy and Astrophysics, 2020, 640, A21.	5.1	25
35	Spi-OPS: Spitzer and CHEOPS confirm the near-polar orbit of MASCARA-1 b and reveal a hint of dayside reflection. Astronomy and Astrophysics, 2022, 658, A75.	5.1	25
36	Detection of the tidal deformation of WASP-103b at 3 Ïf with CHEOPS. Astronomy and Astrophysics, 2022, 657, A52.	5.1	22

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37	CHEOPS geometric albedo of the hot Jupiter HD 209458 b. Astronomy and Astrophysics, 2022, 659, L4.	5.1	20
38	Exploiting timing capabilities of the CHEOPS mission with warm-Jupiter planets. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3810-3830.	4.4	18
39	A search for transiting planets around hot subdwarfs. Astronomy and Astrophysics, 2021, 650, A205.	5.1	18
40	Gravity-dominated Collisions: A Model for the Largest Remnant Masses with Treatment for â€œHit and Runâ€•and Density Stratification. Astrophysical Journal, 2020, 892, 40.	4.5	16
41	The EBLM project â€“ VIII. First results for M-dwarf mass, radius, and effective temperature measurements using CHEOPS light curves. Monthly Notices of the Royal Astronomical Society, 2021, 506, 306-322.	4.4	15
42	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). Astronomy and Astrophysics, 2020, 635, A23.	5.1	13
43	Expected performances of the Characterising Exoplanet Satellite (CHEOPS). Astronomy and Astrophysics, 2020, 635, A22.	5.1	12
44	Transit timing variations of AU Microscopii b and c. Astronomy and Astrophysics, 2022, 659, L7.	5.1	12
45	CHEOPS: CHaracterizing ExOPlanets Satellite. , 2018, , 1257-1281.		10
46	CHEOPS: the ESA mission for exo-planets characterization. , 2018, , .		6
47	Shaping the PSF to nearly top-hat profile: CHEOPS laboratory results. Proceedings of SPIE, 2014, , .	0.8	3
48	The CHEOPS (characterising exoplanet satellite) mission: telescope optical design, development status and main technical and programmatic challenges. , 2017, , .		3
49	From a demonstration model to the flight model: AIV procedures and results for CHEOPS telescope. , 2018, , .		1
50	CHEOPS: the characterizing exoplanets satellite ready for launch. , 2019, , .		1