

Helmut Lammer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

1,619
citations

20
h-index

35
g-index

35
ext. papers

1,879
ext. citations

8.6
avg, IF

4.6
L-index

#	Paper	IF	Citations
35	The extreme ultraviolet and X-ray Sun in Time: High-energy evolutionary tracks of a solar-like star. <i>Astronomy and Astrophysics</i> , 2015 , 577, L3	5.1	156
34	Energetic neutral atoms as the explanation for the high-velocity hydrogen around HD 209458b. <i>Nature</i> , 2008 , 451, 970-2	50.4	151
33	The loss of ions from Venus through the plasma wake. <i>Nature</i> , 2007 , 450, 650-3	50.4	139
32	The lunar exosphere: The sputtering contribution. <i>Icarus</i> , 2007 , 191, 486-496	3.8	123
31	Processes that Promote and Deplete the Exosphere of Mercury. <i>Space Science Reviews</i> , 2007 , 132, 433-509	3.8	109
30	Magnetic moment and plasma environment of HD 209458b as determined from Ly α observations. <i>Science</i> , 2014 , 346, 981-4	33.3	102
29	Monte-Carlo simulation of Mercury's exosphere. <i>Icarus</i> , 2003 , 164, 1-13	3.8	101
28	A Comparative Study of the Influence of the Active Young Sun on the Early Atmospheres of Earth, Venus, and Mars. <i>Space Science Reviews</i> , 2007 , 129, 207-243	7.5	94
27	Origin and evolution of the atmospheres of early Venus, Earth and Mars. <i>Astronomy and Astrophysics Review</i> , 2018 , 26, 1	28.8	84
26	Aeronomical evidence for higher CO ₂ levels during Earth's Hadean epoch. <i>Icarus</i> , 2010 , 210, 1-7	3.8	73
25	MAGNETOSPHERES OF HOT JUPITERS—THE IMPORTANCE OF MAGNETODISKS IN SHAPING A MAGNETOSPHERIC OBSTACLE. <i>Astrophysical Journal</i> , 2012 , 744, 70	4.7	58
24	Stellar wind interaction and pick-up ion escape of the Kepler-11 Super-Earths. <i>Astronomy and Astrophysics</i> , 2014 , 562, A116	5.1	57
23	XUV-exposed, non-hydrostatic hydrogen-rich upper atmospheres of terrestrial planets. Part II: hydrogen coronae and ion escape. <i>Astrobiology</i> , 2013 , 13, 1030-48	3.7	49
22	Extreme hydrodynamic losses of Earth-like atmospheres in the habitable zones of very active stars. <i>Astronomy and Astrophysics</i> , 2019 , 624, L10	5.1	39
21	Ionospheric conductivity effects on electrostatic field penetration into the ionosphere. <i>Natural Hazards and Earth System Sciences</i> , 2008 , 8, 1009-1017	3.9	33
20	Upper atmospheres of terrestrial planets: Carbon dioxide cooling and the Earth's thermospheric evolution. <i>Astronomy and Astrophysics</i> , 2018 , 617, A107	5.1	32
19	Constraining the early evolution of Venus and Earth through atmospheric Ar, Ne isotope and bulk K/U ratios. <i>Icarus</i> , 2020 , 339, 113551	3.8	29

18	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. <i>Planetary and Space Science</i> , 2015 , 115, 90-101	2	28
17	A pebble accretion model for the formation of the terrestrial planets in the Solar System. <i>Science Advances</i> , 2021 , 7,	14.3	25
16	Solar XUV and ENA-driven water loss from early Venus' steam atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4718-4732	2.6	23
15	Solar wind sputtering of wollastonite as a lunar analogue material [Comparisons between experiments and simulations. <i>Icarus</i> , 2018 , 314, 98-105	3.8	18
14	Dynamic Potential Sputtering of Lunar Analog Material by Solar Wind Ions. <i>Astrophysical Journal</i> , 2020 , 891, 100	4.7	14
13	Escape and evolution of Mars's CO2 atmosphere: Influence of suprathermal atoms. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 1321-1337	4.1	14
12	Transit Lyman- α Signatures of terrestrial planets in the habitable zones of M dwarfs. <i>Astronomy and Astrophysics</i> , 2019 , 623, A131	5.1	13
11	A mathematical model of quasistationary electric field penetration from ground to the ionosphere with inclined magnetic field. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018 , 179, 527-537	2	11
10	Propagation of Seismogenic Electric Currents Through the Earth's Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4290-4297	2.6	10
9	Formation of Venus, Earth and Mars: Constrained by Isotopes. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	8
8	Experimental Insights Into Space Weathering of Phobos: Laboratory Investigation of Sputtering by Atomic and Molecular Planetary Ions. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006583	4.1	7
7	Did Mars Possess a Dense Atmosphere During the First (sim400) Million Years?. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	5
6	The young Sun's XUV-activity as a constraint for lower CO2-limits in the Earth's Archean atmosphere. <i>Earth and Planetary Science Letters</i> , 2021 , 576, 117197	5.3	4
5	Particles and Photons as Drivers for Particle Release from the Surfaces of the Moon and Mercury. <i>Space Science Reviews</i> , 2022 , 218, 1	7.5	4
4	Solar wind Helium ion interaction with Mg and Fe rich pyroxene as Mercury surface analogue. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 480, 10-15	1.2	3
3	Evolution of the Earth's Polar Outflow From Mid-Archean to Present. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027837	2.6	3
2	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. <i>Space Science Reviews</i> , 2022 , 218, 1	7.5	0
1	The Influence of the Magnetic Field Inclination on the Quasistationary Electric Field Penetration from the Ground to the Ionosphere. <i>Springer Proceedings in Earth and Environmental Sciences</i> , 2019 , 559-567	0.2	0

