

Konstantin Herbst

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

924
citations

393982

19
h-index

454577

30
g-index

48
all docs

48
docs citations

48
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020, 19, 136-194.	0.9	125
2	On the importance of the local interstellar spectrum for the solar modulation parameter. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	74
3	The Revised Sunspot Record in Comparison to Cosmogenic Radionuclide-Based Solar Activity Reconstructions. <i>Solar Physics</i> , 2016, 291, 3025-3043.	1.0	68
4	Temporal and spatial evolution of the solar energetic particle event on 20 January 2005 and resulting radiation doses in aviation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	47
5	The new local interstellar spectra and their influence on the production rates of the cosmogenic radionuclides ^{10}Be and ^{14}C . <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 23-34.	0.8	47
6	An Empirical Modification of the Force Field Approach to Describe the Modulation of Galactic Cosmic Rays Close to Earth in a Broad Range of Rigidities. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,964.	0.8	40
7	Influence of the terrestrial magnetic field geometry on the cutoff rigidity of cosmic ray particles. <i>Annales Geophysicae</i> , 2013, 31, 1637-1643.	0.6	39
8	The first ground-level enhancement of solar cycle 25 on 28 October 2021. <i>Astronomy and Astrophysics</i> , 2022, 660, L5.	2.1	34
9	The Atmospheric Radiation Interaction Simulator (AtRIS): Description and Validation. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 50-67.	0.8	30
10	Consistently Simulating a Wide Range of Atmospheric Scenarios for K2-18b with a Flexible Radiative Transfer Module. <i>Astrophysical Journal</i> , 2020, 898, 44.	1.6	30
11	Implementation and validation of the GEANT4/AtRIS code to model the radiation environment at Mars. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A2.	1.1	25
12	From Starspots to Stellar Coronal Mass Ejectionsâ€”Revisiting Empirical Stellar Relations. <i>Astrophysical Journal</i> , 2021, 907, 89.	1.6	25
13	THE LOCAL INTERSTELLAR SPECTRUM BEYOND THE HELIOPAUSE: WHAT CAN BE LEARNED FROM <i>VOYAGER</i> IN THE INNER HELIOSHEATH?. <i>Astrophysical Journal</i> , 2012, 761, 17.	1.6	24
14	A new model suite to determine the influence of cosmic rays on (exo)planetary atmospheric biosignatures. <i>Astronomy and Astrophysics</i> , 2019, 631, A101.	2.1	23
15	From solar to stellar flare characteristics. <i>Astronomy and Astrophysics</i> , 2019, 621, A67.	2.1	23
16	MHD-shock structures of astrospheres: β -Cephei-like astrospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4172-4185.	1.6	23
17	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€”CME Interaction. <i>Astrophysical Journal</i> , 2019, 880, 18.	1.6	22
18	On the Diversity of M-star Astrospheres and the Role of Galactic Cosmic Rays Within. <i>Astrophysical Journal Letters</i> , 2020, 897, L27.	3.0	22

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19	Proxima Centauri b: A Strong Case for Including Cosmic-Ray-induced Chemistry in Atmospheric Biosignature Studies. <i>Astrophysical Journal</i> , 2020, 893, 12.	1.6	21
20	EUropean Heliospheric FORecasting Information Asset 2.0. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 57.	1.1	21
21	The Signal of Solar Storms Embedded in Cosmogenic Radionuclides: Detectability and Uncertainties. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029351.	0.8	16
22	A Catalogue of Forbush Decreases Recorded on the Surface of Mars from 2012 Until 2016: Comparison with Terrestrial FDs. <i>Solar Physics</i> , 2019, 294, 1.	1.0	15
23	The mini-neutron monitor: a new approach in neutron monitor design. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 39.	1.1	15
24	Galactic Cosmic Ray induced absorbed dose rate in deep space – Accounting for detector size, shape, material, as well as for the solar modulation. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A14.	1.1	12
25	Astrospheres of Planet-Hosting Cool Stars and Beyond – When Modeling Meets Observations. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	12
26	Revisiting the cosmic-ray induced Venusian radiation dose in the context of habitability. <i>Astronomy and Astrophysics</i> , 2020, 633, A15.	2.1	11
27	Revisiting the cosmic-ray induced Venusian ionization with the Atmospheric Radiation Interaction Simulator (AtRIS). <i>Astronomy and Astrophysics</i> , 2019, 624, A124.	2.1	10
28	On the definition and calculation of a generalised McIlwain parameter. <i>Astrophysics and Space Sciences Transactions</i> , 2010, 6, 9-17.	1.0	10
29	Evolution of the Sunspot Number and Solar Wind B Time Series. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	9
30	On the Rigidity Spectrum of Cosmic-Ray Variations within Propagating Interplanetary Disturbances: Neutron Monitor and SOHO/EPHIN Observations at ~ 10 GV. <i>Astrophysical Journal</i> , 2021, 908, 5.	1.6	9
31	On the Fly Calculation of Absorbed and Equivalent Atmospheric Radiation Dose in A Water Phantom with the Atmospheric Radiation Interaction Simulator (AtRIS). <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9774-9790.	0.8	8
32	The residence-time of Jovian electrons in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2020, 642, A170.	2.1	8
33	Mini neutron monitor measurements at the Neumayer III station and on the German research vessel Polarstern. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012057.	0.3	6
34	Numerical and experimental evidence for a new interpretation of residence times in space. <i>Astronomy and Astrophysics</i> , 2022, 657, A39.	2.1	5
35	Revisiting the Revisited Palmer Consensus: New Insights from Jovian Electron Transport. <i>Astrophysical Journal</i> , 2022, 929, 8.	1.6	4
36	Atmospheric processes affecting methane on Mars. <i>Icarus</i> , 2022, 382, 114940.	1.1	3

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37	Study of the Ground Level Enhancements effect on atmospheric electric properties and mineral dust particle charging. Journal of Atmospheric and Solar-Terrestrial Physics, 2022, 233-234, 105871.	0.6	3
38	^{10}Be Production in the Atmosphere by Galactic Cosmic Rays. Space Science Reviews, 2013, 176, 333-342.	3.7	2
39	<scp>INCREASE</scp>: An updated model suite to study the <scp>INfluence</scp> of Cosmic Rays on Exoplanetary <scp>AtmoSpherEs</scp>. Astronomische Nachrichten, 2022, 343, .	0.6	2
40	Modelling the Production of Cosmogenic Radionuclides due to Galactic and Solar Cosmic Rays. , 2016, , .		1
41	Yield Function of the DOSimetry TElescope Count and Dose Rates Aboard the International Space Station. Space Weather, 2021, 19, e2020SW002510.	1.3	0
42	Evolution of the Sunspot Number and Solar Wind B\$\$\$ Time Series. Space Sciences Series of ISSI, 2019, , 81-111.	0.0	0