Riku Jarvinen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4428929/publications.pdf

Version: 2024-02-01

49 papers	981 citations	394421 19 h-index	477307 29 g-index
60 all docs	60 docs citations	60 times ranked	850 citing authors

#	Article	IF	Citations
1	Non-thermal escape of the martian CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e4486" altimg="si106.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> atmosphere over time: Constrained by Ar isotopes. Icarus, 2022, 382, 115009.	2.5	6
2	Ultraâ€low Frequency Foreshock Waves and Ion Dynamics at Mars. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	5
3	Particleâ€inâ€Cell Modeling of Martian Magnetic Cusps and Their Role in Enhancing Nightside Ionospheric Ion Escape. Geophysical Research Letters, 2021, 48, .	4.0	7
4	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. Space Science Reviews, 2021, 217, 1.	8.1	25
5	Remote sensing of cometary bow shocks: modelled asymmetric outgassing and pickup ion observations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4735-4749.	4.4	7
6	Ultra-low-frequency waves in the ion foreshock of Mercury: a global hybrid modelling study. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4147-4161.	4.4	18
7	Solar Intensity X-Ray and Particle Spectrometer SIXS: Instrument Design and First Results. Space Science Reviews, 2020, 216, 1.	8.1	20
8	Oxygen Ion Escape From Venus Is Modulated by Ultraâ€Low Frequency Waves. Geophysical Research Letters, 2020, 47, e2020GL087462.	4.0	12
9	Planetary magnetic field control of ion escape from weakly magnetized planets. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2108-2120.	4.4	41
10	Hybrid modeling of cometary plasma environments. Astronomy and Astrophysics, 2019, 630, A45.	5.1	12
11	Properties of Magnetic Reconnection and FTEs on the Dayside Magnetopause With and Without Positive IMF B_x Component During Southward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 4037-4048.	2.4	25
12	Stellar influence on heavy ion escape from unmagnetized exoplanets. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1283-1291.	4.4	12
13	Oxygen Ion Energization at Mars: Comparison of MAVEN and Mars Express Observations to Global Hybrid Simulation. Journal of Geophysical Research: Space Physics, 2018, 123, 1678-1689.	2.4	21
14	Ion Acceleration by Flux Transfer Events in the Terrestrial Magnetosheath. Geophysical Research Letters, 2018, 45, 1723-1731.	4.0	17
15	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3714-3726.	2.4	15
16	Precipitation of Hydrogen Energetic Neutral Atoms at the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 8730-8748.	2.4	13
17	Fast plasma sheet flows and X line motion in the Earth's magnetotail: results from a global hybrid-Vlasov simulation. Annales Geophysicae, 2018, 36, 1183-1199.	1.6	11
18	Cavitons and spontaneous hot flow anomalies in a hybrid-Vlasov global magnetospheric simulation. Annales Geophysicae, 2018, 36, 1081-1097.	1.6	12

#	Article	IF	Citations
19	Foreshock Properties at Typical and Enhanced Interplanetary Magnetic Field Strengths: Results From Hybridâ€Vlasov Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 5476-5493.	2.4	30
20	Asymmetries in the Magnetosheath Field Draping on Venus' Nightside. Journal of Geophysical Research: Space Physics, 2017, 122, 10,396.	2.4	8
21	Emission of hydrogen energetic neutral atoms from the Martian subsolar magnetosheath. Journal of Geophysical Research: Space Physics, 2016, 121, 190-204.	2.4	11
22	Dynamics of planetary ions in the induced magnetospheres of Venus and Mars. Planetary and Space Science, 2016, 127, 1-14.	1.7	22
23	Dust environment of an airless object: A phase space study with kinetic models. Planetary and Space Science, 2016, 120, 56-69.	1.7	4
24	Forcing continuous reconnection in hybrid simulations. Physics of Plasmas, 2014, 21, 072906.	1.9	0
25	On vertical electric fields at lunar magnetic anomalies. Geophysical Research Letters, 2014, 41, 2243-2249.	4.0	39
26	Energization of planetary pickup ions in the solar system. Journal of Geophysical Research E: Planets, 2014, 119, 219-236.	3.6	18
27	A new 3â€Ð spherical hybrid model for solar wind interaction studies. Journal of Geophysical Research: Space Physics, 2013, 118, 5157-5168.	2.4	9
28	Hemispheric asymmetries of the Venus plasma environment. Journal of Geophysical Research: Space Physics, 2013, 118, 4551-4563.	2.4	43
29	Energetic protons at Mars: interpretation of SLED/Phobos-2 observations by a kinetic model. Annales Geophysicae, 2012, 30, 1595-1609.	1.6	6
30	Hybrid simulations of proton precipitation patterns onto the upper atmosphere of Mars. Earth, Planets and Space, 2012, 64, 121-134.	2.5	12
31	Kinetic effects on ion escape at Mars and Venus: Hybrid modeling studies. Earth, Planets and Space, 2012, 64, 157-163.	2.5	21
32	Magnetic shadowing of high energy ions at Mars and how this effect can be simulated using a hybrid model. Earth, Planets and Space, 2012, 64, 247-256.	2.5	11
33	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28
34	Kinetic simulations of finite gyroradius effects in the lunar plasma environment on global, meso, and microscales. Planetary and Space Science, 2012, 74, 146-155.	1.7	42
35	Cassini Plasma Spectrometer and hybrid model study on Titan's interaction: Effect of oxygen ions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	14
36	On the development of a spherical hybrid model - Lessons and applications. Proceedings of the International Astronomical Union, 2010, 6, 89-91.	0.0	0

#	Article	IF	Citations
37	Oxygen ion escape at Mars in a hybrid model: High energy and low energy ions. Icarus, 2010, 206, 152-163.	2.5	59
38	Hemispheric asymmetry of the magnetic field wrapping pattern in the Venusian magnetotail. Geophysical Research Letters, 2010, 37, .	4.0	61
39	Widely different characteristics of oxygen and hydrogen ion escape from Venus. Geophysical Research Letters, 2010, 37, .	4.0	15
40	Oxygen ion escape from Venus in a global hybrid simulation: role of the ionospheric O⁺ ions. Annales Geophysicae, 2009, 27, 4333-4348.	1.6	31
41	Hybrid simulations of the O+ ion escape from Venus: Influence of the solar wind density and the IMF x component. Advances in Space Research, 2009, 43, 1436-1441.	2.6	16
42	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. Planetary and Space Science, 2008, 56, 796-801.	1.7	22
43	Magnetized Mars: Transformation of Earth-like magnetosphere to Venus-like induced magnetosphere. Planetary and Space Science, 2008, 56, 823-827.	1.7	15
44	On the properties of O+ and O2+ ions in a hybrid model and in Mars Express IMA/ASPERA-3 data: A case study. Planetary and Space Science, 2008, 56, 1204-1213.	1.7	17
45	Hybrid modelling the Pioneer Venus Orbiter magnetic field observations. Advances in Space Research, 2008, 41, 1361-1374.	2.6	17
46	Simulations of solar wind charge exchange X-ray emissions at Venus. Geophysical Research Letters, 2007, 34, .	4.0	16
47	Morphology of the magnetic field near Titan: Hybrid model study of the Cassini T9 flyby. Geophysical Research Letters, 2007, 34, .	4.0	24
48	Oxygen ions at Titan's exobase in a Voyager 1â€“type interaction from a hybrid simulation. Journal of Geophysical Research, 2007, 112, .	3.3	33
49	Venusâ€“solar wind interaction: Asymmetries and the escape of ions. Planetary and Space Science, 2006, 54, 1472-1481.	1.7	57