Riku Jarvinen

List of Publications by Year
in descending order

49 papers	981 citations	393982 19 h-index	476904 29 g-index
60 all docs	60 docs citations	60 times ranked	850 citing authors

#	ARTICLE	IF	CITATIONS
1	Hemispheric asymmetry of the magnetic field wrapping pattern in the Venusian magnetotail. Geophysical Research Letters, 2010, 37, .	1.5	61
2	Oxygen ion escape at Mars in a hybrid model: High energy and low energy ions. Icarus, 2010, 206, 152-163.	1.1	59
3	Venusâ€“solar wind interaction: Asymmetries and the escape of ions. Planetary and Space Science, 2006, 54, 1472-1481.	0.9	57
4	Hemispheric asymmetries of the Venus plasma environment. Journal of Geophysical Research: Space Physics, 2013, 118, 4551-4563.	0.8	43
5	Kinetic simulations of finite gyroradius effects in the lunar plasma environment on global, meso, and microscales. Planetary and Space Science, 2012, 74, 146-155.	0.9	42
6	Planetary magnetic field control of ion escape from weakly magnetized planets. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2108-2120.	1.6	41
7	On vertical electric fields at lunar magnetic anomalies. Geophysical Research Letters, 2014, 41, 2243-2249.	1.5	39
8	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
9	Oxygen ion escape from Venus in a global hybrid simulation: role of the ionospheric O⁺ ions. Annales Geophysicae, 2009, 27, 4333-4348.	0.6	31
10	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.	0.8	30
11	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28
12	Properties of Magnetic Reconnection and FTEs on the Dayside Magnetopause With and Without Positive IMF <i>B</i>_{<i>x</i>} Component During Southward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 4037-4048.	0.8	25
13	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. Space Science Reviews, 2021, 217, 1.	3.7	25
14	Morphology of the magnetic field near Titan: Hybrid model study of the Cassini T9 flyby. Geophysical Research Letters, 2007, 34, .	1.5	24
15	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.	0.9	22
16	Dynamics of planetary ions in the induced magnetospheres of Venus and Mars. Planetary and Space Science, 2016, 127, 1-14.	0.9	22
17	Kinetic effects on ion escape at Mars and Venus: Hybrid modeling studies. Earth, Planets and Space, 2012, 64, 157-163.	0.9	21
18	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.	0.8	21

#	Article	IF	Citations
19	Solar Intensity X-Ray and Particle Spectrometer SIXS: Instrument Design and First Results. Space Science Reviews, 2020, 216, 1.	3.7	20
20	Energization of planetary pickup ions in the solar system. Journal of Geophysical Research E: Planets, 2014, 119, 219-236.	1.5	18
21	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.	1.6	18
22	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.	0.9	17
23	Hybrid modelling the Pioneer Venus Orbiter magnetic field observations. Advances in Space Research, 2008, 41, 1361-1374.	1.2	17
24	Ion Acceleration by Flux Transfer Events in the Terrestrial Magnetosheath. Geophysical Research Letters, 2018, 45, 1723-1731.	1.5	17
25	Simulations of solar wind charge exchange X-ray emissions at Venus. Geophysical Research Letters, 2007, 34, .	1.5	16
26	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.	1.2	16
27	Magnetized Mars: Transformation of Earth-like magnetosphere to Venus-like induced magnetosphere. Planetary and Space Science, 2008, 56, 823-827.	0.9	15
28	Widely different characteristics of oxygen and hydrogen ion escape from Venus. Geophysical Research Letters, 2010, 37, .	1.5	15
29	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3714-3726.	0.8	15
30	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
31	Precipitation of Hydrogen Energetic Neutral Atoms at the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 8730-8748.	0.8	13
32	Hybrid simulations of proton precipitation patterns onto the upper atmosphere of Mars. Earth, Planets and Space, 2012, 64, 121-134.	0.9	12
33	Cavitons and spontaneous hot flow anomalies in a hybrid-Vlasov global magnetospheric simulation. Annales Geophysicae, 2018, 36, 1081-1097.	0.6	12
34	Hybrid modeling of cometary plasma environments. Astronomy and Astrophysics, 2019, 630, A45.	2.1	12
35	Stellar influence on heavy ion escape from unmagnetized exoplanets. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1283-1291.	1.6	12
36	Oxygen Ion Escape From Venus Is Modulated by Ultraâ€Low Frequency Waves. Geophysical Research Letters, 2020, 47, e2020GL087462.	1.5	12

#	Article	IF	Citations
37	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.	0.9	11
38	Emission of hydrogen energetic neutral atoms from the Martian subsolar magnetosheath. Journal of Geophysical Research: Space Physics, 2016, 121, 190-204.	0.8	11
39	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.	0.6	11
40	A new 3â€D spherical hybrid model for solar wind interaction studies. Journal of Geophysical Research: Space Physics, 2013, 118, 5157-5168.	0.8	9
41	Asymmetries in the Magnetosheath Field Draping on Venus' Nightside. Journal of Geophysical Research: Space Physics, 2017, 122, 10,396.	0.8	8
42	Particleâ€Inâ€Cell Modeling of Martian Magnetic Cusps and Their Role in Enhancing Nightside Ionospheric Ion Escape. Geophysical Research Letters, 2021, 48, .	1.5	7
43	Remote sensing of cometary bow shocks: modelled asymmetric outgassing and pickup ion observations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4735-4749.	1.6	7
44	Energetic protons at Mars: interpretation of SLED/Phobos-2 observations by a kinetic model. Annales Geophysicae, 2012, 30, 1595-1609.	0.6	6
45	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.	1.1	6
46	Ultraâ€low Frequency Foreshock Waves and Ion Dynamics at Mars. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	5
47	Dust environment of an airless object: A phase space study with kinetic models. Planetary and Space Science, 2016, 120, 56-69.	0.9	4
48	On the development of a spherical hybrid model - Lessons and applications. Proceedings of the International Astronomical Union, 2010, 6, 89-91.	0.0	0
49	Forcing continuous reconnection in hybrid simulations. Physics of Plasmas, 2014, 21, 072906.	0.7	0