Katariina Nykyri

List of Publications by Year
in descending order

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68 papers	2,324 citations	201385 27 h-index	223531 46 g-index
78 all docs	78 docs citations	78 times ranked	1485 citing authors

#	Article	IF	Citations
1	The Source of Auroral Omegas. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
2	Coupling Between AlfvÃ©n Wave and Kelvinâ€“Helmholtz Waves in the Low Latitude Boundary Layer. Frontiers in Astronomy and Space Sciences, 2022, 8, .	1.1	3
3	Characteristics of Kelvinâ€“Helmholtz Waves as Observed by the MMS From September 2015 to March 2020. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
4	Magnetospheric Multiscale Statistics of High Energy Electrons Trapped in Diamagnetic Cavities. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	6
5	Kelvinâ€“Helmholtzâ€Related Turbulent Heating at Saturn's Magnetopause Boundary. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028479.	0.8	12
6	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027698.	0.8	15
7	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Duskside, Highâ€Latitude Magnetopause Boundary Layer. Geophysical Research Letters, 2021, 48, e2021GL092466.	1.5	9
8	Modeling Kelvinâ€Helmholtz Instability at the Highâ€Latitude Boundary Layer in a Global Magnetosphere Simulation. Geophysical Research Letters, 2021, 48, e2021GL094002.	1.5	12
9	On the Growth and Development of Nonâ€Linear Kelvinâ€“Helmholtz Instability at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029224.	0.8	9
10	Ion Dynamics in the Meso-scale 3-D Kelvinâ€“Helmholtz Instability: Perspectives From Test Particle Simulations. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	2
11	Kelvin-Helmholtz Instability Associated With Reconnection and Ultra Low Frequency Waves at the Ground: A Case Study. Frontiers in Physics, 2021, 9, .	1.0	5
12	The Structure of the Cusp Diamagnetic Cavity and Test Particle Energization in the GAMERA Global MHD Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	2
13	Statistical Study of Solar Wind, Magnetosheath, and Magnetotail Plasma and Field Properties: 12+ Years of THEMIS Observations and MHD Simulations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028209.	0.8	13
14	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. Geophysical Research Letters, 2020, 47, e2020GL087268.	1.5	8
15	Use of the L1 Constellation as a Multispacecraft Solar Wind Monitor. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027978.	0.8	19
16	Can Enhanced Flux Loading by Highâ€Speed Jets Lead to a Substorm? Multipoint Detection of the Christmas Day Substorm Onset at 08:17 UT, 2015. Journal of Geophysical Research: Space Physics, 2019, 124, 4314-4340.	0.8	23
17	Comparison Between Fluid Simulation With Test Particles and Hybrid Simulation for the Kelvinâ€Helmholtz Instability. Journal of Geophysical Research: Space Physics, 2019, 124, 6654-6668.	0.8	13
18	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 5461-5481.	0.8	34

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19	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6204-6213.	1.5	21
20	Kp forecasting with a recurrent neural network. Journal of Space Weather and Space Climate, 2019, 9, A19.	1.1	12
21	First MMS Observation of Energetic Particles Trapped in Highâ€Latitude Magnetic Field Depressions. Journal of Geophysical Research: Space Physics, 2019, 124, 197-210.	0.8	17
22	Flux Tube Entropy and Specific Entropy in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1593-1611.	0.8	8
23	Kelvinâ€“Helmholtz Instability: Lessons Learned and Ways Forward. Space Science Reviews, 2018, 214, 1.	3.7	36
24	IMF dependence of energetic oxygen and hydrogen ion distributions in the nearâ€Earth magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5168-5180.	0.8	14
25	Ionâ€Scale Wave Properties and Enhanced Ion Heating Across the Lowâ€Latitude Boundary Layer During Kelvinâ€Helmholtz Instability. Journal of Geophysical Research: Space Physics, 2017, 122, 11,128.	0.8	23
26	On the Dawnâ€Dusk Asymmetry of the Kelvinâ€Helmholtz Instability Between 2007 and 2013. Journal of Geophysical Research: Space Physics, 2017, 122, 11,888.	0.8	29
27	Influence of velocity fluctuations on the Kelvinâ€Helmholtz instability and its associated mass transport. Journal of Geophysical Research: Space Physics, 2017, 122, 9489-9512.	0.8	28
28	Temperature variations in the dayside magnetosheath and their dependence on ionâ€scale magnetic structures: THEMIS statistics and measurements by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 6165-6184.	0.8	10
29	The dawnâ€“dusk asymmetry of ion density in the dayside magnetosheath and its annual variability measured by THEMIS. Annales Geophysicae, 2016, 34, 511-528.	0.6	10
30	Statistical mapping of ULF Pc3 velocity fluctuations in the Earthâ€™s dayside magnetosheath as a function of solar wind conditions. Advances in Space Research, 2016, 58, 196-207.	1.2	13
31	Cross-scale energy transport in space plasmas. Nature Physics, 2016, 12, 1164-1169.	6.5	60
32	The Kelvinâ€“Helmholtz instability under Parker-Spiral Interplanetary Magnetic Field conditions at the magnetospheric flanks. Advances in Space Research, 2016, 58, 218-230.	1.2	16
33	Statistical study of the ULF Pc4â€“Pc5 range fluctuations in the vicinity of Earthâ€™s magnetopause and correlation with the Low Latitude Boundary Layer thickness. Advances in Space Research, 2016, 58, 257-267.	1.2	16
34	Solar wind energy input to the magnetosheath and at the magnetopause. Geophysical Research Letters, 2015, 42, 4723-4730.	1.5	9
35	The impact of solar wind ULF B_z fluctuations on geomagnetic activity for viscous timescales during strongly northward and southward IMF. Journal of Geophysical Research: Space Physics, 2015, 120, 9307-9322.	0.8	26
36	A statistical study of the dawnâ€dusk asymmetry of ion temperature anisotropy and mirror mode occurrence in the terrestrial dayside magnetosheath using THEMIS data. Journal of Geophysical Research: Space Physics, 2015, 120, 5489-5503.	0.8	45

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37	A statistical study into the spatial distribution and dawnâ€dusk asymmetry of dayside magnetosheath ion temperatures as a function of upstream solar wind conditions. Journal of Geophysical Research: Space Physics, 2015, 120, 2767-2782.	0.8	34
38	The link between shocks, turbulence, and magnetic reconnection in collisionless plasmas. Physics of Plasmas, 2014, 21, .	0.7	217
39	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. Space Science Reviews, 2014, 184, 33-86.	3.7	82
40	A statistical study of magnetic field fluctuations in the dayside magnetosheath and their dependence on upstream solar wind conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 6231-6248.	0.8	38
41	First magnetic seismology of the CME reconnection outflow layer in the low corona with 2.5â€D MHD simulations of the Kelvinâ€Helmholtz instability. Geophysical Research Letters, 2013, 40, 4154-4159.	1.5	21
42	Asymmetry of magnetosheath flows and magnetopause shape during low AlfvÃ©n Mach number solar wind. Journal of Geophysical Research: Space Physics, 2013, 118, 1089-1100.	0.8	49
43	The statistical mapping of magnetosheath plasma properties based on THEMIS measurements in the magnetosheath interplanetary medium reference frame. Journal of Geophysical Research: Space Physics, 2013, 118, 4963-4976.	0.8	78
44	Mapping of the quasi-periodic oscillations at the flank magnetopause into the ionosphere. Annales Geophysicae, 2013, 31, 1993-2011.	0.6	7
45	KELVIN-HELMHOLTZ INSTABILITY OF THE CME RECONNECTION OUTFLOW LAYER IN THE LOW CORONA. Astrophysical Journal, 2013, 767, 170.	1.6	41
46	Impact of MHD shock physics on magnetosheath asymmetry and Kelvinâ€Helmholtz instability. Journal of Geophysical Research: Space Physics, 2013, 118, 5068-5081.	0.8	65
47	3-D mesoscale MHD simulations of magnetospheric cusp-like configurations: cusp diamagnetic cavities and boundary structure. Annales Geophysicae, 2012, 30, 325-341.	0.6	10
48	On the origin of high-energy particles in the cusp diamagnetic cavity. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 87-88, 70-81.	0.6	35
49	Florida Energy Assurance Plan. Space Weather, 2012, 10, n/a-n/a.	1.3	1
50	On the origin of fluctuations in the cusp diamagnetic cavity. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	28
51	Cluster observations of a cusp diamagnetic cavity: Structure, size, and dynamics. Journal of Geophysical Research, 2011, 116, .	3.3	31
52	Cluster observations of bow shock energetic ion transport through the magnetosheath into the cusp. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
53	MAGNETIC KELVIN-HELMHOLTZ INSTABILITY AT THE SUN. Astrophysical Journal Letters, 2011, 729, L8.	3.0	164
54	3-D mesoscale MHD simulations of a cusp-like magnetic configuration: method and first results. Annales Geophysicae, 2011, 29, 759-770.	0.6	17

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55	The plasma sheet and boundary layers under northward IMF: A multi-point and multi-instrument perspective. Advances in Space Research, 2008, 41, 1619-1629.	1.2	42
56	Plasma - a view from space. Physics World, 2007, 20, 30-33.	0.0	13
57	Cluster observations of reconnection due to the Kelvin-Helmholtz instability at the dawnside magnetospheric flank. Annales Geophysicae, 2006, 24, 2619-2643.	0.6	143
58	Origin of the turbulent spectra in the high-altitude cusp: Cluster spacecraft observations. Annales Geophysicae, 2006, 24, 1057-1075.	0.6	45
59	Cluster at the Magnetospheric Cusps. Space Science Reviews, 2005, 118, 321-366.	3.7	35
60	Coordinated Cluster/Double Star observations of dayside reconnection signatures. Annales Geophysicae, 2005, 23, 2867-2875.	0.6	47
61	Cluster at the Magnetospheric Cusps. Space Sciences Series of ISSI, 2005, , 321-366.	0.0	8
62	CLUSTER encounters with the high altitude cusp: boundary structure and magnetic field depletions. Annales Geophysicae, 2004, 22, 1739-1754.	0.6	37
63	Cluster observations of magnetic field fluctuations in the high-altitude cusp. Annales Geophysicae, 2004, 22, 2413-2429.	0.6	40
64	Influence of the Hall term on KH instability and reconnection inside KH vortices. Annales Geophysicae, 2004, 22, 935-949.	0.6	67
65	Ion cyclotron waves in the high altitude cusp: CLUSTER observations at varying spacecraft separations. Geophysical Research Letters, 2003, 30, .	1.5	34
66	Kelvin-Helmholtz instability and magnetic reconnection: Mass transport at the LLBL. Geophysical Monograph Series, 2003, , 53-62.	0.1	17
67	Equator-S observations of boundary signatures: FTE's or Kelvin-Helmholtz waves?. Geophysical Monograph Series, 2003, , 205-210.	0.1	11
68	Plasma transport at the magnetospheric boundary due to reconnection in Kelvin-Helmholtz vortices. Geophysical Research Letters, 2001, 28, 3565-3568.	1.5	261