

# 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	Plasma transport at the magnetospheric boundary due to reconnection in Kelvin-Helmholtz vortices. <i>Geophysical Research Letters</i> , 2001, 28, 3565-3568.	1.5	261
2	The link between shocks, turbulence, and magnetic reconnection in collisionless plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	217
3	MAGNETIC KELVIN-HELMHOLTZ INSTABILITY AT THE SUN. <i>Astrophysical Journal Letters</i> , 2011, 729, L8.	3.0	164
4	Cluster observations of reconnection due to the Kelvin-Helmholtz instability at the dawnside magnetospheric flank. <i>Annales Geophysicae</i> , 2006, 24, 2619-2643.	0.6	143
5	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. <i>Space Science Reviews</i> , 2014, 184, 33-86.	3.7	82
6	The statistical mapping of magnetosheath plasma properties based on THEMIS measurements in the magnetosheath interplanetary medium reference frame. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4963-4976.	0.8	78
7	Influence of the Hall term on KH instability and reconnection inside KH vortices. <i>Annales Geophysicae</i> , 2004, 22, 935-949.	0.6	67
8	Impact of MHD shock physics on magnetosheath asymmetry and Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5068-5081.	0.8	65
9	Cross-scale energy transport in space plasmas. <i>Nature Physics</i> , 2016, 12, 1164-1169.	6.5	60
10	Asymmetry of magnetosheath flows and magnetopause shape during low Alfvén Mach number solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1089-1100.	0.8	49
11	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , 2005, 23, 2867-2875.	0.6	47
12	Origin of the turbulent spectra in the high-altitude cusp: Cluster spacecraft observations. <i>Annales Geophysicae</i> , 2006, 24, 1057-1075.	0.6	45
13	A statistical study of the dawn-dusk asymmetry of ion temperature anisotropy and mirror mode occurrence in the terrestrial dayside magnetosheath using THEMIS data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5489-5503.	0.8	45
14	The plasma sheet and boundary layers under northward IMF: A multi-point and multi-instrument perspective. <i>Advances in Space Research</i> , 2008, 41, 1619-1629.	1.2	42
15	KELVIN-HELMHOLTZ INSTABILITY OF THE CME RECONNECTION OUTFLOW LAYER IN THE LOW CORONA. <i>Astrophysical Journal</i> , 2013, 767, 170.	1.6	41
16	Cluster observations of magnetic field fluctuations in the high-altitude cusp. <i>Annales Geophysicae</i> , 2004, 22, 2413-2429.	0.6	40
17	A statistical study of magnetic field fluctuations in the dayside magnetosheath and their dependence on upstream solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6231-6248.	0.8	38
18	CLUSTER encounters with the high altitude cusp: boundary structure and magnetic field depletions. <i>Annales Geophysicae</i> , 2004, 22, 1739-1754.	0.6	37

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19	Kelvinâ€Helmholtz Instability: Lessons Learned and Ways Forward. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
20	Cluster at the Magnetospheric Cusps. <i>Space Science Reviews</i> , 2005, 118, 321-366.	3.7	35
21	On the origin of high-energy particles in the cusp diamagnetic cavity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 87-88, 70-81.	0.6	35
22	Ion cyclotron waves in the high altitude cusp: CLUSTER observations at varying spacecraft separations. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	34
23	A statistical study into the spatial distribution and dawnâ€dusk asymmetry of dayside magnetosheath ion temperatures as a function of upstream solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2767-2782.	0.8	34
24	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5461-5481.	0.8	34
25	Cluster observations of a cusp diamagnetic cavity: Structure, size, and dynamics. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	31
26	On the Dawnâ€Dusk Asymmetry of the Kelvinâ€Helmholtz Instability Between 2007 and 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,888.	0.8	29
27	On the origin of fluctuations in the cusp diamagnetic cavity. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	28
28	Influence of velocity fluctuations on the Kelvinâ€Helmholtz instability and its associated mass transport. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9489-9512.	0.8	28
29	The impact of solar wind ULF $B_z$ fluctuations on geomagnetic activity for viscous timescales during strongly northward and southward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9307-9322.	0.8	26
30	Ionâ€Scale Wave Properties and Enhanced Ion Heating Across the Lowâ€Latitude Boundary Layer During Kelvinâ€Helmholtz Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,128.	0.8	23
31	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. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4314-4340.	0.8	23
32	First magnetic seismology of the CME reconnection outflow layer in the low corona with 2.5â€MHD simulations of the Kelvinâ€Helmholtz instability. <i>Geophysical Research Letters</i> , 2013, 40, 4154-4159.	1.5	21
33	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6204-6213.	1.5	21
34	Use of the L1 Constellation as a Multispacecraft Solar Wind Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027978.	0.8	19
35	Kelvin-Helmholtz instability and magnetic reconnection: Mass transport at the LLBL. <i>Geophysical Monograph Series</i> , 2003, , 53-62.	0.1	17
36	3-D mesoscale MHD simulations of a cusp-like magnetic configuration: method and first results. <i>Annales Geophysicae</i> , 2011, 29, 759-770.	0.6	17

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37	First MMS Observation of Energetic Particles Trapped in High-Latitude Magnetic Field Depressions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 197-210.	0.8	17
38	The Kelvin-Helmholtz instability under Parker-Spiral Interplanetary Magnetic Field conditions at the magnetospheric flanks. <i>Advances in Space Research</i> , 2016, 58, 218-230.	1.2	16
39	Statistical study of the ULF Pc4-Pc5 range fluctuations in the vicinity of Earth's magnetopause and correlation with the Low Latitude Boundary Layer thickness. <i>Advances in Space Research</i> , 2016, 58, 257-267.	1.2	16
40	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	0.8	15
41	IMF dependence of energetic oxygen and hydrogen ion distributions in the near-Earth magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5168-5180.	0.8	14
42	Plasma - a view from space. <i>Physics World</i> , 2007, 20, 30-33.	0.0	13
43	Statistical mapping of ULF Pc3 velocity fluctuations in the Earth's dayside magnetosheath as a function of solar wind conditions. <i>Advances in Space Research</i> , 2016, 58, 196-207.	1.2	13
44	Comparison Between Fluid Simulation With Test Particles and Hybrid Simulation for the Kelvin-Helmholtz Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6654-6668.	0.8	13
45	Statistical Study of Solar Wind, Magnetosheath, and Magnetotail Plasma and Field Properties: 12+ Years of THEMIS Observations and MHD Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028209.	0.8	13
46	Kp forecasting with a recurrent neural network. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A19.	1.1	12
47	Kelvin-Helmholtz-Related Turbulent Heating at Saturn's Magnetopause Boundary. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028479.	0.8	12
48	Modeling Kelvin-Helmholtz Instability at the High-Latitude Boundary Layer in a Global Magnetosphere Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094002.	1.5	12
49	Equator-S observations of boundary signatures: FTE's or Kelvin-Helmholtz waves?. <i>Geophysical Monograph Series</i> , 2003, , 205-210.	0.1	11
50	3-D mesoscale MHD simulations of magnetospheric cusp-like configurations: cusp diamagnetic cavities and boundary structure. <i>Annales Geophysicae</i> , 2012, 30, 325-341.	0.6	10
51	The dawn-dusk asymmetry of ion density in the dayside magnetosheath and its annual variability measured by THEMIS. <i>Annales Geophysicae</i> , 2016, 34, 511-528.	0.6	10
52	Temperature variations in the dayside magnetosheath and their dependence on ion-scale magnetic structures: THEMIS statistics and measurements by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6165-6184.	0.8	10
53	Cluster observations of bow shock energetic ion transport through the magnetosheath into the cusp. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	9
54	Solar wind energy input to the magnetosheath and at the magnetopause. <i>Geophysical Research Letters</i> , 2015, 42, 4723-4730.	1.5	9

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55	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Dusk-side, High-Latitude Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092466.	1.5	9
56	On the Growth and Development of Non-Linear Kelvin-Helmholtz Instability at Mars: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029224.	0.8	9
57	Flux Tube Entropy and Specific Entropy in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1593-1611.	0.8	8
58	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087268.	1.5	8
59	Cluster at the Magnetospheric Cusps. <i>Space Sciences Series of ISSI</i> , 2005, , 321-366.	0.0	8
60	Mapping of the quasi-periodic oscillations at the flank magnetopause into the ionosphere. <i>Annales Geophysicae</i> , 2013, 31, 1993-2011.	0.6	7
61	Magnetospheric Multiscale Statistics of High Energy Electrons Trapped in Diamagnetic Cavities. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	6
62	Kelvin-Helmholtz Instability Associated With Reconnection and Ultra Low Frequency Waves at the Ground: A Case Study. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	5
63	Characteristics of Kelvin-Helmholtz Waves as Observed by the MMS From September 2015 to March 2020. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
64	Coupling Between Alfvén Wave and Kelvin-Helmholtz Waves in the Low Latitude Boundary Layer. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	1.1	3
65	Ion Dynamics in the Meso-scale 3-D Kelvin-Helmholtz Instability: Perspectives From Test Particle Simulations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2
66	The Source of Auroral Omegas. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
67	The Structure of the Cusp Diamagnetic Cavity and Test Particle Energization in the GAMERA Global MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	2
68	Florida Energy Assurance Plan. <i>Space Weather</i> , 2012, 10, n/a-n/a.	1.3	1