

Pekka Janhunen

List of Publications by Year in descending order

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168
papers

4,308
citations

109321

35
h-index

155660

55
g-index

173
all docs

173
docs citations

173
times ranked

2012
citing authors

#	ARTICLE	IF	CITATIONS
1	Aspects of nanospacecraft design for main-belt sailing voyage. <i>Advances in Space Research</i> , 2021, 67, 2957-2980.	2.6	7
2	Aalto-1, multi-payload CubeSat: In-orbit results and lessons learned. <i>Acta Astronautica</i> , 2021, 187, 557-568.	3.2	30
3	Aalto-1, multi-payload CubeSat: Design, integration and launch. <i>Acta Astronautica</i> , 2021, 187, 370-383.	3.2	29
4	Coulomb drag propulsion experiments of ESTCube-2 and FORESAIL-1. <i>Acta Astronautica</i> , 2020, 177, 771-783.	3.2	29
5	Particle telescope aboard FORESAIL-1: Simulated performance. <i>Advances in Space Research</i> , 2020, 66, 29-41.	2.6	3
6	Steam balloon concept for lifting rockets to launch altitude. <i>Aeronautical Journal</i> , 2019, 123, 600-616.	1.6	0
7	FORESAIL-1 CubeSat Mission to Measure Radiation Belt Losses and Demonstrate Deorbiting. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5783-5799.	2.4	23
8	Miniature Spectral Imager in-Orbit Demonstration Results from Aalto-1 Nanosatellite Mission. , 2018, , .		6
9	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails. , 2018, , .		10
10	Thrust vectoring of an electric solar wind sail with a realistic sail shape. <i>Acta Astronautica</i> , 2017, 131, 145-151.	3.2	42
11	Aalto-1 Earth Observation nanosatellite mission status and in orbit experiments. , 2017, , .		0
12	The impact on global magnetohydrodynamic simulations from varying initialisation methods: results from GUMICS-4. <i>Annales Geophysicae</i> , 2017, 35, 907-922.	1.6	3
13	Electric sail option for cometary rendezvous. <i>Acta Astronautica</i> , 2016, 127, 684-692.	3.2	13
14	Assessing the performance of community-available global MHD models using key system parameters and empirical relationships. <i>Space Weather</i> , 2015, 13, 868-884.	3.7	40
15	Boltzmann electron PIC simulation of the E-sail effect. <i>Annales Geophysicae</i> , 2015, 33, 1507-1512.	1.6	4
16	Safety criteria for flying E-sail through solar eclipse. <i>Acta Astronautica</i> , 2015, 114, 1-5.	3.2	6
17	EMMI-1 Electric solar wind sail facilitated Manned Mars Initiative. <i>Acta Astronautica</i> , 2015, 113, 22-28.	3.2	12
18	Wrecker: an unreeling mechanism for a thin electrically conductive space tether. <i>CEAS Space Journal</i> , 2015, 7, 53-68.	2.3	2

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19	ESTCube-1 in-orbit experience and lessons learned. IEEE Aerospace and Electronic Systems Magazine, 2015, 30, 12-22.	1.3	48
20	Electric sail control mode for amplified transverse thrust. Acta Astronautica, 2015, 106, 111-119.	3.2	20
21	Nano-graphite cold cathodes for electric solar wind sail. Carbon, 2015, 81, 132-136.	10.3	15
22	Windsock memory COnditioned RAM (COâ€RAM) pressure effect: Forced reconnection in the Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 6273-6293.	2.4	13
23	Simulation study of the plasma-brake effect. Annales Geophysicae, 2014, 32, 1207-1216.	1.6	23
24	Electric Sail for a Near-Earth Asteroid Sample Return Mission: Case 1998 KY26. Journal of Aerospace Engineering, 2014, 27, .	1.4	16
25	Overview of electric solar wind sail applications. Proceedings of the Estonian Academy of Sciences, 2014, 63, 267.	1.5	21
26	E-sail test payload of the ESTCube-1 nanosatellite. Proceedings of the Estonian Academy of Sciences, 2014, 63, 210.	1.5	21
27	Fast E-sail Uranus entry probe mission. Planetary and Space Science, 2014, 104, 141-146.	1.7	16
28	Forcing continuous reconnection in hybrid simulations. Physics of Plasmas, 2014, 21, 072906.	1.9	0
29	ESTCube-1 nanosatellite for electric solar wind sail in-orbit technology demonstration. Proceedings of the Estonian Academy of Sciences, 2014, 63, 2000.	1.5	34
30	Electric sail, photonic sail and deorbiting applications of the freely guided photonic blade. Acta Astronautica, 2014, 93, 410-417.	3.2	8
31	Statistical comparison of seasonal variations in the GUMICSâ€4 global MHD model ionosphere and measurements. Space Weather, 2014, 12, 582-600.	3.7	18
32	Magnetopause reconnection and energy conversion as influenced by the dipole tilt and the IMF B_z . Journal of Geophysical Research: Space Physics, 2014, 119, 4484-4494.	2.4	43
33	One kilometer (1 km) electric solar wind sail tether produced automatically. Review of Scientific Instruments, 2013, 84, 095102.	1.3	30
34	Verification of the GUMICSâ€4 global MHD code using empirical relationships. Journal of Geophysical Research: Space Physics, 2013, 118, 3138-3146.	2.4	11
35	Parallel grid library for rapid and flexible simulation development. Computer Physics Communications, 2013, 184, 1297-1309.	7.5	11
36	Spin Plane Control and Thrust Vectoring of Electric Solar Wind Sail. Journal of Propulsion and Power, 2013, 29, 178-185.	2.2	63

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37	Photonic spin control for solar wind electric sail. <i>Acta Astronautica</i> , 2013, 83, 85-90.	3.2	24
38	Determining the quality of space tether in a nondestructive manner. , 2013, , .		1
39	Electric solar wind sail mass budget model. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2013, 2, 85-95.	1.6	59
40	Aalto-1 nanosatellite â€œ technical description and mission objectives. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2013, 2, 121-130.	1.6	52
41	The GUMICS-4 global MHD magnetosphereâ€“ionosphere coupling simulation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 80, 48-59.	1.6	88
42	Cassini Plasma Spectrometer and hybrid model study on Titan's interaction: Effect of oxygen ions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
43	Deorbiting Strategies: Comparison between Electrostatic Plasma Brake and Conventional Propulsion. , 2011, , .		2
44	Wire-to-wire bonding of 1/4m-diameter aluminum wires for the Electric Solar Wind Sail. <i>Microelectronic Engineering</i> , 2011, 88, 3267-3269.	2.4	37
45	Optimal interplanetary rendezvous combining electric sail and high thrust propulsion system. <i>Acta Astronautica</i> , 2011, 68, 603-621.	3.2	21
46	Status report of the electric sail in 2009. <i>Acta Astronautica</i> , 2011, 68, 567-570.	3.2	24
47	Aalto-1: a hyperspectral Earth observing nanosatellite. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
48	Aalto-1 - An experimental nanosatellite for hyperspectral remote sensing. , 2011, , .		13
49	Volume cross section of auroral radar backscatter and RMS plasma fluctuations inferred from coherent and incoherent scatter data: a response on backscatter volume parameters. <i>Annales Geophysicae</i> , 2011, 29, 1081-1092.	1.6	6
50	On large plasmoid formation in a global magnetohydrodynamic simulation. <i>Annales Geophysicae</i> , 2011, 29, 167-179.	1.6	14
51	On the development of a spherical hybrid model - Lessons and applications. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 89-91.	0.0	0
52	Oxygen ion escape at Mars in a hybrid model: High energy and low energy ions. <i>Icarus</i> , 2010, 206, 152-163.	2.5	59
53	Electrostatic Plasma Brake for Deorbiting a Satellite. <i>Journal of Propulsion and Power</i> , 2010, 26, 370-372.	2.2	53
54	Invited Article: Electric solar wind sail: Toward test missions. <i>Review of Scientific Instruments</i> , 2010, 81, 111301.	1.3	112

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55	Magnetospheric feedback in solar wind energy transfer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
56	Timing of changes in the solar wind energy input in relation to ionospheric response. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
57	Widely different characteristics of oxygen and hydrogen ion escape from Venus. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	15
58	Thermo-photovoltaic spacecraft electricity generation. <i>Astrophysics and Space Sciences Transactions</i> , 2010, 6, 19-26.	1.0	1
59	Moving an asteroid with electric solar wind sail. <i>Astrophysics and Space Sciences Transactions</i> , 2010, 6, 41-48.	1.0	13
60	Increased electric sail thrust through removal of trapped shielding electrons by orbit chaotisation due to spacecraft body. <i>Annales Geophysicae</i> , 2009, 27, 3089-3100.	1.6	49
61	On the response of ionospheric electrojets to solar wind discontinuities. <i>Annales Geophysicae</i> , 2009, 27, 3791-3803.	1.6	1
62	Oxygen ion escape from Venus in a global hybrid simulation: role of the ionospheric O^+ ions. <i>Annales Geophysicae</i> , 2009, 27, 4333-4348.	1.6	31
63	On the feasibility of a negative polarity electric sail. <i>Annales Geophysicae</i> , 2009, 27, 1439-1447.	1.6	25
64	Astrobiology: Study of factors related to the origin and survival of life on Earth and elsewhere. <i>Planetary and Space Science</i> , 2009, 57, 429.	1.7	1
65	Hybrid simulations of the O^+ ion escape from Venus: Influence of the solar wind density and the IMF x component. <i>Advances in Space Research</i> , 2009, 43, 1436-1441.	2.6	16
66	Electric Sailing under Observed Solar Wind Conditions. <i>Astrophysics and Space Sciences Transactions</i> , 2009, 5, 61-69.	1.0	30
67	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. <i>Planetary and Space Science</i> , 2008, 56, 796-801.	1.7	22
68	Morphology of the magnetic field near Mars and the role of the magnetic crustal anomalies: Dayside region. <i>Planetary and Space Science</i> , 2008, 56, 852-855.	1.7	10
69	The magnetic field near Mars: A comparison between a hybrid model, Mars Global Surveyor and Mars Express observations. <i>Planetary and Space Science</i> , 2008, 56, 828-831.	1.7	0
70	Magnetized Mars: Transformation of Earth-like magnetosphere to Venus-like induced magnetosphere. <i>Planetary and Space Science</i> , 2008, 56, 823-827.	1.7	15
71	Variations of the magnetic field near Mars caused by magnetic crustal anomalies. <i>Planetary and Space Science</i> , 2008, 56, 856-860.	1.7	5
72	On the properties of O^+ and O_2^+ ions in a hybrid model and in Mars Express IMA/ASPERA-3 data: A case study. <i>Planetary and Space Science</i> , 2008, 56, 1204-1213.	1.7	17

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73	On the impact of multiply charged heavy solar wind ions on the surface of Mercury, the Moon and Ceres. <i>Planetary and Space Science</i> , 2008, 56, 1506-1516.	1.7	27
74	Hybrid modelling the Pioneer Venus Orbiter magnetic field observations. <i>Advances in Space Research</i> , 2008, 41, 1361-1374.	2.6	17
75	Electric Sail Performance Analysis. <i>Journal of Spacecraft and Rockets</i> , 2008, 45, 122-129.	1.9	111
76	The electron drift velocity, ion acoustic speed and irregularity drifts in high-latitude E-region. <i>Annales Geophysicae</i> , 2008, 26, 3395-3409.	1.6	3
77	Simulations of solar wind charge exchange X-ray emissions at Venus. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
78	Morphology of the magnetic field near Titan: Hybrid model study of the Cassini T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	24
79	Oxygen ions at Titan's exobase in a Voyager 1 "type interaction from a hybrid simulation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
80	Continuous reconnection line and pressure-dependent energy conversion on the magnetopause in a global MHD model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
81	Biological Feedbacks as Cause and Demise of Neoproterozoic Icehouse: Astrobiological Prospects for Faster Evolution and Importance of Cold Conditions. <i>PLoS ONE</i> , 2007, 2, e214.	2.5	2
82	Simulation study of solar wind push on a charged wire: basis of solar wind electric sail propulsion. <i>Annales Geophysicae</i> , 2007, 25, 755-767.	1.6	131
83	HLLC solver for ideal relativistic MHD. <i>Journal of Computational Physics</i> , 2007, 223, 643-656.	3.8	44
84	Energisation of O ⁺ and O ²⁺ ions at Mars: An Analysis of a 3-D Quasi-Neutral Hybrid Model Simulation. <i>Space Science Reviews</i> , 2007, 126, 39-62.	8.1	11
85	Hysteresis in solar wind power input to the magnetosphere. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	20
86	New interpretation of magnetospheric energy circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	22
87	Compression of the Earth's magnetotail by interplanetary shocks directly drives transient magnetic flux closure. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	40
88	On the characterization of magnetic reconnection in global MHD simulations. <i>Annales Geophysicae</i> , 2006, 24, 3059-3069.	1.6	41
89	Precipitation and total power consumption in the ionosphere: Global MHD simulation results compared with Polar and SNOE observations. <i>Annales Geophysicae</i> , 2006, 24, 861-872.	1.6	24
90	Hybrid simulation study of ion escape at Titan for different orbital positions. <i>Advances in Space Research</i> , 2006, 38, 799-805.	2.6	42

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91	Planetary ENA imaging: Effects of different interaction models for Mars. <i>Planetary and Space Science</i> , 2006, 54, 117-131.	1.7	18
92	Venus's solar wind interaction: Asymmetries and the escape of ions. <i>Planetary and Space Science</i> , 2006, 54, 1472-1481.	1.7	57
93	Alfvénic Electron Acceleration in Aurora Occurs in Global Alfvén Resonance Region. <i>Space Science Reviews</i> , 2006, 122, 89-95.	8.1	19
94	Ion escape at Mars: Comparison of a 3-D hybrid simulation with Mars Express IMA/ASPERA-3 measurements. <i>Icarus</i> , 2006, 182, 350-359.	2.5	34
95	Energetics of a substorm on 15 August, 2001: Comparing empirical methods and a global MHD simulation. <i>Advances in Space Research</i> , 2005, 36, 1825-1829.	2.6	7
96	Simulations of X-rays from solar wind charge exchange at Mars: Parameter dependence. <i>Advances in Space Research</i> , 2005, 36, 2057-2065.	2.6	9
97	Statistics of a parallel Poynting vector in the auroral zone as a function of altitude using Polar EFI and MFE data and Astrid-2 EMMA data. <i>Annales Geophysicae</i> , 2005, 23, 1797-1806.	1.6	10
98	The magnetotail reconnection region in a global MHD simulation. <i>Annales Geophysicae</i> , 2005, 23, 3753-3764.	1.6	21
99	Assessment of ionospheric Joule heating by GUMICS-4 MHD simulation, AMIE, and satellite-based statistics: towards a synthesis. <i>Annales Geophysicae</i> , 2005, 23, 2051-2068.	1.6	47
100	Latitude-energy structure of multiple ion beamlets in Polar/TIMAS data in plasma sheet boundary layer and boundary plasma sheet below 6 $\leq R \leq 8$ R_E ; radial distance: basic properties and statistical analysis. <i>Annales Geophysicae</i> , 2005, 23, 867-876.	1.6	3
101	Ionospheric energy input as a function of solar wind parameters: global MHD simulation results. <i>Annales Geophysicae</i> , 2004, 22, 549-566.	1.6	46
102	Relation of polar auroral arcs to magnetotail twisting and IMF rotation: a systematic MHD simulation study. <i>Annales Geophysicae</i> , 2004, 22, 951-970.	1.6	62
103	Testing an inversion method for estimating electron energy fluxes from all-sky camera images. <i>Annales Geophysicae</i> , 2004, 22, 1961-1971.	1.6	10
104	Surface conductivity of Mercury provides current closure and may affect magnetospheric symmetry. <i>Annales Geophysicae</i> , 2004, 22, 1829-1837.	1.6	46
105	Observational study of generation conditions of substorm-associated low-frequency AKR emissions. <i>Annales Geophysicae</i> , 2004, 22, 3571-3582.	1.6	11
106	The occurrence frequency of auroral potential structures and electric fields as a function of altitude using Polar/EFI data. <i>Annales Geophysicae</i> , 2004, 22, 1233-1250.	1.6	13
107	Ion shell distributions as free energy source for plasma waves on auroral field lines mapping to plasma sheet boundary layer. <i>Annales Geophysicae</i> , 2004, 22, 2115-2133.	1.6	6
108	Middle-energy electron anisotropies in the auroral region. <i>Annales Geophysicae</i> , 2004, 22, 237-249.	1.6	8

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109	Statistics of Joule heating in the auroral zone and polar cap using Astrid-2 satellite Poynting flux. <i>Annales Geophysicae</i> , 2004, 22, 4133-4142.	1.6	27
110	Electric Sail for Spacecraft Propulsion. <i>Journal of Propulsion and Power</i> , 2004, 20, 763-764.	2.2	198
111	The response of the Hermean magnetosphere to the interplanetary magnetic field. <i>Advances in Space Research</i> , 2004, 33, 2176-2181.	2.6	36
112	Ionospheric Power Consumption in Global MHD Simulation Predicted From Solar Wind Measurements. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 1511-1518.	1.3	6
113	Titan in subsonic and supersonic flow. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	42
114	X rays from solar wind charge exchange at Mars: A comparison of simulations and observations. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	27
115	Role of solar wind dynamic pressure in driving ionospheric Joule heating. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
116	STARE velocities: 2. Evening westward electron flow. <i>Annales Geophysicae</i> , 2004, 22, 1077-1091.	1.6	10
117	Different Alfvén wave acceleration processes of electrons in substorms at ~4-5 $\times 10^3$ km and 2-3 $\times 10^3$ km radial distance. <i>Annales Geophysicae</i> , 2004, 22, 2213-2227.	1.6	19
118	What high altitude observations tell us about the auroral acceleration: A Cluster/DMSP conjunction. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	27
119	Solar wind and magnetospheric ion impact on Mercury's surface. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	91
120	Some recent developments in understanding auroral electron acceleration processes. <i>IEEE Transactions on Plasma Science</i> , 2003, 31, 1178-1191.	1.3	10
121	Stormtime energy transfer in global MHD simulation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	108
122	STARE velocities: the importance of off-orthogonality and ion motions. <i>Annales Geophysicae</i> , 2003, 21, 729-743.	1.6	22
123	The occurrence frequency of upward ion beams in the auroral zone as a function of altitude using Polar/TIMAS and DE-1/EICS data. <i>Annales Geophysicae</i> , 2003, 21, 2059-2072.	1.6	8
124	Generation of Bernstein waves by ion shell distributions in the auroral region. <i>Annales Geophysicae</i> , 2003, 21, 881-891.	1.6	25
125	Modelling the solar wind interaction with Mercury by a quasi-neutral hybrid model. <i>Annales Geophysicae</i> , 2003, 21, 2133-2145.	1.6	94
126	Mesoscale structure of a morning sector ionospheric shear flow region determined by conjugate Cluster II and MIRACLE ground-based observations. <i>Annales Geophysicae</i> , 2003, 21, 1737-1751.	1.6	7

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127	Polar observations of electron density distribution in the Earth's magnetosphere. 2. Density profiles. <i>Annales Geophysicae</i> , 2002, 20, 1725-1735.	1.6	19
128	Ion escape from Mars in a quasi-neutral hybrid model. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 1-1.	3.3	78
129	A hybrid simulation model for a stable auroral arc. <i>Annales Geophysicae</i> , 2002, 20, 1603-1616.	1.6	9
130	Velocities of auroral coherent echoes at 12 and 144 MHz. <i>Annales Geophysicae</i> , 2002, 20, 1647-1661.	1.6	19
131	Plasma and wave phenomena induced by neutral gas releases in the solar wind. <i>Annales Geophysicae</i> , 2002, 20, 1-11.	1.6	22
132	Polar observations of electron density distribution in the Earth's magnetosphere. 1. Statistical results. <i>Annales Geophysicae</i> , 2002, 20, 1711-1724.	1.6	26
133	Altitude dependence of plasma density in the auroral zone. <i>Annales Geophysicae</i> , 2002, 20, 1743-1750.	1.6	21
134	A study of inverted-V auroral acceleration mechanisms using Polar/Fast Auroral Snapshot conjunctions. <i>Journal of Geophysical Research</i> , 2001, 106, 18995-19011.	3.3	15
135	Cusp and magnetopause locations in global MHD simulation. <i>Journal of Geophysical Research</i> , 2001, 106, 29435-29450.	3.3	36
136	Atmospheric effects of proton precipitation in the Martian atmosphere and its connection to the Mars-solar wind interaction. <i>Journal of Geophysical Research</i> , 2001, 106, 5617-5634.	3.3	69
137	Reconstruction of electron precipitation characteristics from a set of multiwavelength digital all-sky auroral images. <i>Journal of Geophysical Research</i> , 2001, 106, 18505-18516.	3.3	20
138	Auroral potential structures and current-voltage relationship: summary of recent results. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2001, 26, 107-111.	0.2	4
139	Altitude extension of auroral potential structures by event-based and statistical studies. <i>Advances in Space Research</i> , 2001, 28, 1575-1580.	2.6	1
140	Some observational phenomena are well reproduced by our global MHD while others are not: remarks on what, why and how. <i>Advances in Space Research</i> , 2001, 28, 1685-1691.	2.6	9
141	Ionospheric shear flow situations observed by the MIRACLE network, and the concept of Harang discontinuity. <i>Geophysical Monograph Series</i> , 2000, , 227-236.	0.1	7
142	A Positive Conservative Method for Magnetohydrodynamics Based on HLL and Roe Methods. <i>Journal of Computational Physics</i> , 2000, 160, 649-661.	3.8	158
143	A statistical study of nightside inverted-V events using Freja electron data: implications for the current-voltage relationship. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000, 62, 81-92.	1.6	7
144	Characteristics of a stable arc based on FAST and MIRACLE observations. <i>Annales Geophysicae</i> , 2000, 18, 152-160.	1.6	13

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145	New model for auroral acceleration: O-shaped potential structure cooperating with waves. <i>Annales Geophysicae</i> , 2000, 18, 596-607.	1.6	21
146	Difference in the current-voltage relationships between dawn and duskside inverted-V events. <i>Journal of Geophysical Research</i> , 2000, 105, 5373-5380.	3.3	6
147	On the current-voltage relationship in fluid theory. <i>Annales Geophysicae</i> , 1999, 17, 11-26.	1.6	8
148	How does the U-shaped potential close above the acceleration region? A study using Polar data. <i>Annales Geophysicae</i> , 1999, 17, 1276-1283.	1.6	23
149	STARE: Observations of a field-aligned line current. <i>Geophysical Research Letters</i> , 1999, 26, 21-24.	4.0	9
150	On the current-voltage relationship in fluid theory. <i>Annales Geophysicae</i> , 1999, 17, 11.	1.6	7
151	The current-voltage relationship revisited: exact and approximate formulas with almost general validity for hot magnetospheric electrons for bi-Maxwellian and kappa distributions. <i>Annales Geophysicae</i> , 1998, 16, 292-297.	1.6	26
152	Field-aligned conductance values estimated from Maxwellian and kappa distributions in quiet and disturbed events using Freja electron data. <i>Annales Geophysicae</i> , 1998, 16, 298-302.	1.6	33
153	On the possibility of using an electromagnetic ionosphere in global MHD simulations. <i>Annales Geophysicae</i> , 1998, 16, 397-402.	1.6	14
154	A case study of electron precipitation in the late substorm growth phase on and nearby a preonset arc. <i>Annales Geophysicae</i> , 1998, 16, 1567-1572.	1.6	7
155	Observations of Substorm Electrodynamics Using the Miracle Network. <i>Astrophysics and Space Science Library</i> , 1998, , 111-114.	2.7	48
156	The closure of region-1 field-aligned current in MHD simulation. <i>Geophysical Research Letters</i> , 1997, 24, 1419-1422.	4.0	38
157	On the current-voltage relationship in auroral breakups and westwards-travelling surges. <i>Annales Geophysicae</i> , 1996, 14, 1265-1273.	1.6	14
158	On the current-voltage relationship in auroral breakups and westwards-travelling surges. <i>Annales Geophysicae</i> , 1996, 14, 1265.	1.6	8
159	On recent developments in E-region irregularity simulations and a summary of related theory. <i>Annales Geophysicae</i> , 1995, 13, 791-806.	1.6	3
160	Auroral fading in ionosphere-magnetosphere coupling model: Implications for possible mechanisms. <i>Geophysical Research Letters</i> , 1995, 22, 2049-2052.	4.0	9
161	Analysis of the substorm trigger phase using multiple ground-based instrumentation. <i>Geophysical Research Letters</i> , 1995, 22, 2065-2068.	4.0	14
162	On recent developments in E-region irregularity. <i>Annales Geophysicae</i> , 1995, 13, 791.	1.6	0

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163	Perpendicular particle simulation of the E-region Farley-Buneman instability. <i>Journal of Geophysical Research</i> , 1994, 99, 11461.	3.3	32
164	A numerical ionosphere-magnetosphere coupling model with variable conductivities. <i>Journal of Geophysical Research</i> , 1993, 98, 9519-9530.	3.3	30
165	MathHDF: MathLink-Based Distributed Visualization between Mathematica and HDF Files. <i>Computers in Physics</i> , 1993, 7, 290.	0.5	0
166	Propagation of the electromagnetic signal from lightning over a non-planar inhomogeneous Earth. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1992, 54, 251-264.	0.9	0
167	Three-dimensional stabilization mechanism for the auroral Farley-Buneman instability. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1992, 54, 1633-1643.	0.9	8
168	Application of conformal mapping to 2-D conductivity structures with non-uniform primary sources. <i>Geophysical Journal International</i> , 1991, 105, 185-190.	2.4	2