

# Zdeněk Němeček

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6300399/publications.pdf>

Version: 2024-02-01

275  
papers

4,338  
citations

109321

35  
h-index

197818

49  
g-index

323  
all docs

323  
docs citations

323  
times ranked

1816  
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of Magnetic Field Fluctuations in Long-Lasting Radial IMF Events from Wind Observation. <i>Atmosphere</i> , 2022, 13, 173.	2.3	2
2	Bow Shock Eigenmodes and Their Interconnection with Magnetospheric Resonances. <i>Journal of Experimental and Theoretical Physics</i> , 2022, 134, 321-326.	0.9	0
3	Eigenmodes of the Boundary of a Magnetic Barrier Flowed Around by Plasma: the Boundary Membrane Model, Linear and Nonlinear Resonances, and Couplings with Internal Modes. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 132, 285-293.	0.9	1
4	Detection of Dust Particles Using Faraday Cup Instruments. <i>Astrophysical Journal</i> , 2021, 909, 132.	4.5	2
5	Turbulence Upstream and Downstream of Interplanetary Shocks. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	17
6	Anisotropy of Magnetic Field and Velocity Fluctuations in the Solar Wind. <i>Astrophysical Journal</i> , 2021, 913, 80.	4.5	4
7	Flattening of the Density Spectrum in Compressible Hall-MHD Simulations. <i>Atmosphere</i> , 2021, 12, 1162.	2.3	2
8	Spectra of Temperature Fluctuations in the Solar Wind. <i>Atmosphere</i> , 2021, 12, 1277.	2.3	3
9	Ion Cloud Expansion after Hyper-velocity Dust Impacts Detected by the Magnetospheric Multiscale Mission Electric Probes in the Dipole Configuration. <i>Astrophysical Journal</i> , 2021, 921, 127.	4.5	1
10	A Novel Method for Estimating the Intrinsic Magnetic Field Spectrum of Kinetic-Range Turbulence. <i>Atmosphere</i> , 2021, 12, 1547.	2.3	7
11	Magnetic Field Gradient Across the Flank Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	2
12	Proton Beam Abundance Variations and Their Relation to Alpha Particle Properties. <i>Astrophysical Journal</i> , 2021, 923, 170.	4.5	5
13	(Non)radial Solar Wind Propagation through the Heliosphere. <i>Astrophysical Journal Letters</i> , 2020, 897, L39.	8.3	9
14	Martian Bow Shock and Magnetic Pileup Boundary Models Based on an Automated Region Identification. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028509.	2.4	7
15	Long- and Short-Term Evolutions of Magnetic Field Fluctuations in High-Speed Streams. <i>Solar Physics</i> , 2020, 295, 1.	2.5	6
16	Comparison of Observed and Modeled Magnetic Fields in the Earth's Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027705.	2.4	3
17	Solar Wind Deflection in the Foreshock: Model&Data Comparison. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026970.	2.4	1
18	What is the Solar Wind Frame of Reference?. <i>Astrophysical Journal</i> , 2020, 889, 163.	4.5	21

#	ARTICLE	IF	CITATIONS
19	Solar Wind Proton Deceleration in Front of the Terrestrial Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6553-6565.	2.4	7
20	Characteristics of Solar Wind Fluctuations at and below Ion Scales. <i>Astrophysical Journal</i> , 2019, 879, 82.	4.5	8
21	Evolution of Relative Drifts in the Expanding Solar Wind: Helios Observations. <i>Solar Physics</i> , 2019, 294, 1.	2.5	28
22	Fine Structure of Interplanetary Shock Front—Results from BMSW Experiment with High Time Resolution. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8191-8207.	2.4	2
23	Collisionless Plasma Processes at Magnetospheric Boundaries: Role of Strong Nonlinear Wave Interactions. <i>JETP Letters</i> , 2019, 110, 336-341.	1.4	3
24	On the Influence of the Earth's Magnetic Dipole Eccentricity and Magnetospheric Ring Current on the Magnetopause Location. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 905-914.	2.4	2
25	Long-Term Variations in Solar Wind Parameters, Magnetopause Location, and Geomagnetic Activity Over the Last Five Solar Cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4049-4063.	2.4	15
26	Evolution of the $\hat{\pm}$ -proton Differential Motion across Stream Interaction Regions. <i>Astrophysical Journal</i> , 2019, 873, 24.	4.5	14
27	Statistical Survey of the Terrestrial Bow Shock Observed by the Cluster Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1539-1547.	2.4	13
28	One-Year Analysis of Dust Impact-Like Events Onto the MMS Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8179-8190.	2.4	17
29	Scale-dependent Polarization of Solar Wind Velocity Fluctuations at the Inertial and Kinetic Scales. <i>Astrophysical Journal</i> , 2019, 870, 40.	4.5	18
30	Auto-ionization of LiF grains. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
31	MF Microspheres: Helping or Puzzling Tool?. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 709-717.	1.3	4
32	Do we detect interplanetary dust with Faraday cups?. <i>Planetary and Space Science</i> , 2018, 156, 17-22.	1.7	1
33	Laboratory modeling of dust impact detection by the Cassini spacecraft. <i>Planetary and Space Science</i> , 2018, 156, 85-91.	1.7	24
34	Overview of APEX Project Results. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	2.8	13
35	Interaction of the Interplanetary Shock and IMF Directional Discontinuity in the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3822-3835.	2.4	1
36	Magnetosheath Propagation Time of Solar Wind Directional Discontinuities. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3727-3741.	2.4	7

#	ARTICLE	IF	CITATIONS
37	Formation of the Dayside Magnetopause and Its Boundary Layers Under the Radial IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3533-3547.	2.4	8
38	Secondary electron emission and its role in the space environment. <i>AIP Conference Proceedings</i> , 2018, , ,	0.4	1
39	Arbitrary-order Hilbert Spectral Analysis and Intermittency in Solar Wind Density Fluctuations. <i>Astrophysical Journal</i> , 2018, 859, 27.	4.5	29
40	A method to predict magnetopause expansion in radial IMF events by MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3110-3126.	2.4	11
41	Evolution of the magnetic field structure outside the magnetopause under radial IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4051-4063.	2.4	16
42	Multifractal analysis of high resolution solar wind proton density measurements. <i>Advances in Space Research</i> , 2017, 59, 1642-1651.	2.6	21
43	Decay of Solar Wind Turbulence behind Interplanetary Shocks. <i>Astrophysical Journal</i> , 2017, 844, 51.	4.5	15
44	Variety of shapes of solar wind ion flux spectra: Spektr-R measurements. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	12
45	Evolution of Proton and Alpha Particle Velocities through the Solar Cycle. <i>Astrophysical Journal</i> , 2017, 850, 164.	4.5	16
46	Shape of the equatorial magnetopause affected by the radial interplanetary magnetic field. <i>Planetary and Space Science</i> , 2017, 148, 28-34.	1.7	19
47	PRESSURE PULSES AT VOYAGER 2: DRIVERS OF INTERSTELLAR TRANSIENTS?. <i>Astrophysical Journal</i> , 2017, 834, 190.	4.5	35
48	Fine structure of the interplanetary shock front according to measurements of the ion flux of the solar wind with high time resolution. <i>Cosmic Research</i> , 2017, 55, 30-45.	0.6	10
49	Intermittency of the solar wind density near the interplanetary shock. <i>Geomagnetism and Aeronomy</i> , 2017, 57, 645-654.	0.8	2
50	Spiky Structures around Reconnection Exhausts in the Solar Wind. <i>Astrophysical Journal</i> , 2017, 851, 86.	4.5	4
51	Sputtering of Spherical SiO <sub>2</sub> Samples. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 1036-1044.	1.3	2
52	POWER SPECTRAL DENSITY OF FLUCTUATIONS OF BULK AND THERMAL SPEEDS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 825, 121.	4.5	46
53	Do we know the actual magnetopause position for typical solar wind conditions?. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6493-6508.	2.4	27
54	EMC aspects of turbulence heating observer (THOR) spacecraft. , 2016, , ,		3

#	ARTICLE	IF	CITATIONS
55	LUNAR SURFACE AND DUST GRAIN POTENTIALS DURING THE EARTH'S MAGNETOSPHERE CROSSING. <i>Astrophysical Journal</i> , 2016, 825, 133.	4.5	19
56	Global expansion of the dayside magnetopause for long-duration radial IMF events: Statistical study on GOES observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6480-6492.	2.4	20
57	Kelvin-Helmholtz wave at the subsolar magnetopause boundary layer under radial IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9863-9879.	2.4	11
58	Turbulence Heating Observer " satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	60
59	Solar cycle variations of magnetopause locations. <i>Advances in Space Research</i> , 2016, 58, 240-248.	2.6	19
60	Comparison of properties of small-scale ion flux fluctuations in the flank magnetosheath and in the solar wind. <i>Advances in Space Research</i> , 2016, 58, 166-174.	2.6	16
61	DENSITY FLUCTUATIONS UPSTREAM AND DOWNSTREAM OF INTERPLANETARY SHOCKS. <i>Astrophysical Journal</i> , 2016, 819, 41.	4.5	24
62	Secondary Emission From Clusters Composed of Spherical Grains. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 505-511.	1.3	6
63	Investigations of Photoemission From Lunar Dust Simulant. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 512-518.	1.3	4
64	Analysis of temperature versus density plots and their relation to the LLBL formation under southward and northward IMF orientations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3475-3488.	2.4	15
65	Transient events at the magnetopause and bipolar magnetic signatures. <i>Planetary and Space Science</i> , 2015, 115, 19-26.	1.7	1
66	SOLAR WIND DENSITY SPECTRA AROUND THE ION SPECTRAL BREAK. <i>Astrophysical Journal</i> , 2015, 803, 107.	4.5	51
67	Turbulent spectra of the solar wind near interplanetary shocks. , 2015, , .		0
68	PLASMA-F experiment: Three years of on-orbit operation. <i>Solar System Research</i> , 2015, 49, 580-603.	0.7	1
69	Rapid variations of the value and direction of the solar wind ion flux. <i>Cosmic Research</i> , 2015, 53, 59-69.	0.6	7
70	Dynamic properties of small-scale solar wind plasma fluctuations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140146.	3.4	37
71	Interplanetary shock "bow shock interaction: Comparison of a global MHD model and observation. <i>Planetary and Space Science</i> , 2015, 115, 4-11.	1.7	8
72	A reexamination of long-duration radial IMF events. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7005-7011.	2.4	29

#	ARTICLE	IF	CITATIONS
73	INTERMITTENCY OF SOLAR WIND DENSITY FLUCTUATIONS FROM ION TO ELECTRON SCALES. <i>Astrophysical Journal Letters</i> , 2014, 789, L8.	8.3	66
74	The influence of secondary electron emission on the floating potential of tokamak-born dust. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 025001.	2.1	13
75	STATISTICAL STUDY OF RECONNECTION EXHAUSTS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2014, 796, 21.	4.5	15
76	Observation of fast variations of the helium-ion abundance in the solar wind. <i>Cosmic Research</i> , 2014, 52, 25-36.	0.6	12
77	The far magnetotail response to an interplanetary shock arrival. <i>Planetary and Space Science</i> , 2014, 103, 228-237.	1.7	9
78	On nonlinear cascades and resonances in the outer magnetosphere. <i>JETP Letters</i> , 2014, 99, 16-21.	1.4	18
79	Possible observational evidence of contact discontinuities. <i>Geophysical Research Letters</i> , 2014, 41, 8228-8234.	4.0	7
80	Upstream and downstream wave packets associated with low-Mach number interplanetary shocks. <i>Geophysical Research Letters</i> , 2014, 41, 8100-8106.	4.0	16
81	Secondary electron emission from Martian soil simulant. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 199-209.	3.6	1
82	Automated interplanetary shock detection and its application to Wind observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4793-4803.	2.4	15
83	Ion scales of quasi-perpendicular low-Mach number interplanetary shocks. <i>Geophysical Research Letters</i> , 2013, 40, 4133-4137.	4.0	21
84	Why does the total pressure on the subsolar magnetopause differ from the solar wind dynamic pressure?. <i>Cosmic Research</i> , 2013, 51, 37-45.	0.6	4
85	Numerical Calculation of an Equilibrium Dust Grain Potential in Lunar Environment. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 740-744.	1.3	5
86	Fast Solar Wind Monitor (BMSW): Description and First Results. <i>Space Science Reviews</i> , 2013, 175, 165-182.	8.1	68
87	Fast measurements of parameters of the Solar Wind using the BMSW instrument. <i>Cosmic Research</i> , 2013, 51, 78-89.	0.6	45
88	Solar wind modification upstream of the bow shock. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	2
89	Fast solar wind monitoring available: BMSW in operation. , 2013, , .		2
90	Multi-spacecraft observations of magnetic reconnection in the solar wind. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
91	Ion Kinetic Scale in the Solar Wind Observed. <i>Physical Review Letters</i> , 2013, 110, 025004.	7.8	65
92	Interball Tail Probe Measurements in Outer Cusp and Boundary Layers. <i>Geophysical Monograph Series</i> , 2013, , 25-44.	0.1	36
93	SHORT-SCALE VARIATIONS OF THE SOLAR WIND HELIUM ABUNDANCE. <i>Astrophysical Journal</i> , 2013, 778, 25.	4.5	25
94	Linear trap with three orthogonal quadrupole fields for dust charging experiments. <i>Review of Scientific Instruments</i> , 2012, 83, 115109.	1.3	4
95	Super fast plasma streams as drivers of transient and anomalous magnetospheric dynamics. <i>Annales Geophysicae</i> , 2012, 30, 1-7.	1.6	52
96	SECONDARY EMISSION FROM NON-SPHERICAL DUST GRAINS WITH ROUGH SURFACES: APPLICATION TO LUNAR DUST. <i>Astrophysical Journal</i> , 2012, 761, 108.	4.5	10
97	Multipoint study of magnetosheath magnetic field fluctuations and their relation to the foreshock. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
98	A new approach to magnetopause and bow shock modeling based on automated region identification. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	61
99	Why does the subsolar magnetopause move sunward for radial interplanetary magnetic field?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
100	Asymmetric magnetosphere deformation driven by hot flow anomaly(ies). <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	17
101	LUNAR DUST GRAIN CHARGING BY ELECTRON IMPACT: DEPENDENCE OF THE SURFACE POTENTIAL ON THE GRAIN SIZE. <i>Astrophysical Journal</i> , 2011, 738, 14.	4.5	22
102	Anomalous interaction of a plasma flow with the boundary layers of a geomagnetic trap. <i>JETP Letters</i> , 2011, 93, 754-762.	1.4	16
103	Dusty Plasma Effects in Near Earth Space and Interplanetary Medium. <i>Space Science Reviews</i> , 2011, 161, 1-47.	8.1	52
104	MHD analysis of propagation of an interplanetary shock across magnetospheric boundaries. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 20-29.	1.6	21
105	Modeling the secondary emission yield of salty ice dust grains. <i>Icarus</i> , 2011, 212, 367-372.	2.5	5
106	ROYĀ”A multiscale magnetospheric mission. <i>Planetary and Space Science</i> , 2011, 59, 606-617.	1.7	7
107	Deformation of ICMEs/MCs along their path. <i>Planetary and Space Science</i> , 2011, 59, 840-847.	1.7	3
108	Dayside magnetopause transients correlated with changes of the magnetosheath magnetic field orientation. <i>Annales Geophysicae</i> , 2011, 29, 687-699.	1.6	14

#	ARTICLE	IF	CITATIONS
109	Self-discharging Of Positively Charged Dust Grains. AIP Conference Proceedings, 2011, , .	0.4	0
110	Electrons Emitted From Small Dust Grains: Comparison Of Sphere And Cube. AIP Conference Proceedings, 2011, , .	0.4	1
111	The Shape And Charge Of Lunar Dust Simulant (LHT) Under Electron Bombardment. AIP Conference Proceedings, 2011, , .	0.4	0
112	Composition And Electrical Properties Of Dust From Tokamak Compass. AIP Conference Proceedings, 2011, , .	0.4	0
113	CORRELATIONS OF PLASMA DENSITY AND MAGNETIC FIELD STRENGTH IN THE HELIOSHEATH. Astrophysical Journal Letters, 2010, 722, L228-L232.	8.3	5
114	Scientific objectives and instrumentation of Mercury Plasma Particle Experiment (MPPE) onboard MMO. Planetary and Space Science, 2010, 58, 182-200.	1.7	45
115	Relation of Charging History to Field Ion Emission From Gold and Carbon Dust. IEEE Transactions on Plasma Science, 2010, 38, 798-802.	1.3	3
116	Dust as a Gas Carrier. IEEE Transactions on Plasma Science, 2010, 38, 886-891.	1.3	5
117	Propagation of Interplanetary Shocks Across the Bow Shock. AIP Conference Proceedings, 2010, , .	0.4	1
118	Spatial Profile of the LLBL: Multispacecraft Themis observations. AIP Conference Proceedings, 2010, , .	0.4	3
119	Electrons scattered inside small dust grains of various materials. Physical Review B, 2010, 81, .	3.2	15
120	IMF cone angle control of the magnetopause location: Statistical study. Geophysical Research Letters, 2010, 37, .	4.0	56
121	Thin magnetosheath as a consequence of the magnetopause deformation: THEMIS observations. Journal of Geophysical Research, 2010, 115, .	3.3	25
122	Magnetopause expansions for quasi-radial interplanetary magnetic field: THEMIS and Geotail observations. Journal of Geophysical Research, 2010, 115, .	3.3	71
123	Dust Charging in Space-related Laboratory Experiments: A Review Focused on Secondary Emission. Contributions To Plasma Physics, 2009, 49, 169-186.	1.1	15
124	Secondary electron emission from highly charged carbon grains. European Physical Journal D, 2009, 54, 299-304.	1.3	3
125	Influence of the foreshock of the Earth's bow shock on the interplanetary shock propagation during their mutual interaction. Earth, Planets and Space, 2009, 61, 607-610.	2.5	6
126	Correlation properties of magnetosheath magnetic field fluctuations. Journal of Geophysical Research, 2009, 114, .	3.3	17



#	ARTICLE	IF	CITATIONS
127	Reliability of prediction of the magnetosheath <i>B<sub>Z</sub></i> component from interplanetary magnetic field observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	35
128	Field emission characteristics of gold dust grains. <i>Advances in Space Research</i> , 2008, 42, 129-135.	2.6	5
129	Small-scale deformation of the bow shock. <i>Advances in Space Research</i> , 2008, 41, 1519-1527.	2.6	2
130	IMF control of the high-altitude cusp dynamics. <i>Advances in Space Research</i> , 2008, 41, 92-102.	2.6	5
131	A new approach to solar wind monitoring. <i>Advances in Space Research</i> , 2008, 41, 153-159.	2.6	13
132	An application of the dust grain charging model to determination of secondary electron spectra. <i>European Physical Journal D</i> , 2008, 48, 375-381.	1.3	3
133	High energy jets in the Earth's magnetosheath: Implications for plasma dynamics and anomalous transport. <i>JETP Letters</i> , 2008, 87, 593-599.	1.4	61
134	Influence of the tilt angle on the bow shock shape and location. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	12
135	Response of magnetospheric boundaries to the interplanetary shock: Themis contribution. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	28
136	Interaction between single dust grains and ions or electrons: laboratory measurements and their consequences for the dust dynamics. <i>Faraday Discussions</i> , 2008, 137, 139-155.	3.2	29
137	Influence of the Electric Field on Secondary Electron Emission Yield. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
138	Peculiarities of the Field Electron Emission from Dust Grains. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
139	Changes of Dust Grain Properties Under Particle Bombardment. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
140	Observations of vortex-like structure in the cusp-magnetosheath region during northward IMF orientation. <i>Annales Geophysicae</i> , 2008, 26, 3375-3387.	1.6	2
141	Correlation length of magnetosheath fluctuations: Cluster statistics. <i>Annales Geophysicae</i> , 2008, 26, 2503-2513.	1.6	17
142	Influence of Charging Conditions on Field Ion Emission From Dust Grains. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 292-296.	1.3	12
143	Secondary Emission From Glass Grains: Comparison of the Model and Experiment. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 286-291.	1.3	15
144	The Sputtering of Dust Grains: Aspects of Experimental Observations. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 297-302.	1.3	9

#	ARTICLE	IF	CITATIONS
145	Variations of the flank LLBL thickness as response to the solar wind dynamic pressure and IMF orientation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	22
146	Modification of interplanetary shocks near the bow shock and through the magnetosheath. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
147	Interaction of interplanetary shocks with the bow shock. <i>Planetary and Space Science</i> , 2007, 55, 2324-2329.	1.7	11
148	Interball contribution to the high-altitude cusp observations. <i>Planetary and Space Science</i> , 2007, 55, 2286-2294.	1.7	3
149	Numerical MHD modeling of propagation of interplanetary shock through the magnetosheath. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	62
150	Interplanetary shock in the magnetosheath: Comparison of experimental data with MHD modeling. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	33
151	Model of secondary emission and its application on the charging of gold dust grains. <i>Physical Review B</i> , 2006, 74, .	3.2	19
152	Propagation of interplanetary shocks through the solar wind and magnetosheath. <i>Advances in Space Research</i> , 2006, 38, 552-558.	2.6	21
153	Impact of surface properties on the dust grain charging. <i>Advances in Space Research</i> , 2006, 38, 2558-2563.	2.6	4
154	Ion beam effects on dust grains: Influence of charging history. <i>Vacuum</i> , 2006, 80, 542-547.	3.5	8
155	Secondary emission from dust grains with a surface layer: comparison between experimental and model results. <i>Advances in Space Research</i> , 2006, 38, 2551-2557.	2.6	6
156	Study of energetic particle anisotropy in weak and strong foreshocks. <i>Advances in Space Research</i> , 2006, 37, 1413-1420.	2.6	0
157	MHD-modelling of the magnetosheath ion plasma flow and magnetic field and their comparison with experiments. <i>Advances in Space Research</i> , 2006, 37, 507-514.	2.6	10
158	A study of particle flows in hot flow anomalies. <i>Planetary and Space Science</i> , 2005, 53, 41-52.	1.7	14
159	INTERBALL-1 observations of plasma and energetic particle fluxes upstream of the Earth's bow shock. <i>Planetary and Space Science</i> , 2005, 53, 65-78.	1.7	3
160	Improved bow shock model with dependence on the IMF strength. <i>Planetary and Space Science</i> , 2005, 53, 85-93.	1.7	64
161	Relationship between high-energy particles and ion flux in the magnetosheath. <i>Planetary and Space Science</i> , 2005, 53, 103-115.	1.7	9
162	Variations of the magnetosheath ion flux and geomagnetic activity. <i>Advances in Space Research</i> , 2005, 36, 2417-2422.	2.6	7

#	ARTICLE	IF	CITATIONS
163	Bow shock observations by Prognozâ€“Prognoz 11 data: analysis and model comparison. <i>Advances in Space Research</i> , 2005, 36, 1958-1963.	2.6	8
164	Structure of the high-altitude cusp formed by the horizontal IMF. <i>Advances in Space Research</i> , 2005, 36, 1928-1933.	2.6	2
165	Plasma flow variations and energetic protons upstream of the earthâ€™s bow shock: A statistical study. <i>Advances in Space Research</i> , 2005, 36, 2345-2350.	2.6	3
166	The shape and location of the high-latitude magnetopause. <i>Advances in Space Research</i> , 2005, 36, 1934-1939.	2.6	26
167	Magion-4 High-Altitude Cusp Study. <i>Surveys in Geophysics</i> , 2005, 26, 57-69.	4.6	2
168	Low-Frequency Plasma Waves in the Outer Polar CUSP: A Review of Observations from Prognoz 8, Interball 1, Magion 4, and Cluster. <i>Surveys in Geophysics</i> , 2005, 26, 177-191.	4.6	11
169	The influence of ion bombardment on emission properties of small dust grains. <i>European Physical Journal D</i> , 2005, 55, 1283-1291.	0.4	2
170	Formation of the flank LLBL: A case study. <i>European Physical Journal D</i> , 2005, 55, 1293-1301.	0.4	0
171	Field Electron Emission from Gold Dust Grains. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
172	The Study of Field Ion Emission from Gold Dust Grains. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	2
173	Energy Distributions of Secondary Electrons Under Different Conditions. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
174	Electric Field Influence on Secondary Emission. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	2
175	Deformation of interplanetary shock fronts in the magnetosheath. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	35
176	Magnetosheath Investigations: Interball Contribution to the Topic. , 2005, , 73-94.		3
177	Magion-4 High-Altitude Cusp Study. , 2005, , 57-69.		0
178	Radial dependence of foreshock cavities: a case study. <i>Annales Geophysicae</i> , 2004, 22, 4143-4151.	1.6	14
179	Ion beam effects on dust grains. <i>Vacuum</i> , 2004, 76, 447-455.	3.5	14
180	A Model of Secondary Emission From Dust Grains and Its Comparison With an Experiment. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 617-622.	1.3	21

#	ARTICLE	IF	CITATIONS
181	Emissions From Nonconducting Negatively Charged Dust Grains. IEEE Transactions on Plasma Science, 2004, 32, 607-612.	1.3	6
182	Mass-Loss Rate for MF Resin Microspheres. IEEE Transactions on Plasma Science, 2004, 32, 704-708.	1.3	52
183	Magnetosheath-cusp interface. Annales Geophysicae, 2004, 22, 183-212.	1.6	35
184	Spatial and temporal variations of the high-altitude cusp precipitation. Annales Geophysicae, 2004, 22, 2441-2450.	1.6	7
185	The Role of Wave-Particle Interactions in the Dynamics of Plasma in the Polar Cusp. Cosmic Research, 2003, 41, 332-339.	0.6	2
186	Problems of Dust Grains Charging to Negative Potentials. European Physical Journal D, 2003, 53, 151-162.	0.4	4
187	Configuration of the outer cusp after an IMF rotation. Advances in Space Research, 2003, 31, 1395-1400.	2.6	7
188	The bow shock velocity from two-point measurements in frame of the interball project. Advances in Space Research, 2003, 31, 1377-1382.	2.6	11
189	The dawn-dusk asymmetry of the magnetosheath: INTERBALL-1 observations. Advances in Space Research, 2003, 31, 1333-1340.	2.6	24
190	High and low frequency large amplitude variations of plasma and magnetic field in the magnetosheath: Radial profile and some features. Advances in Space Research, 2003, 31, 1389-1394.	2.6	41
191	Earth's bow shock and magnetopause in the case of a field-aligned upstream flow: Observation and model comparison. Journal of Geophysical Research, 2003, 108, .	3.3	52
192	Structure of the outer cusp and sources of the cusp precipitation during intervals of a horizontal IMF. Journal of Geophysical Research, 2003, 108, .	3.3	27
193	The structure of magnetopause layers at low latitudes: Interball contributions. Geophysical Monograph Series, 2003, , 71-82.	0.1	13
194	Spacecraft potential during an active experiment: a comparison of experimental results with a simple model. Annales Geophysicae, 2003, 21, 915-922.	1.6	1
195	Charging Properties of Dust Grain Clusters. AIP Conference Proceedings, 2002, , .	0.4	3
196	Secondary Emission From Small Spherical Grains. AIP Conference Proceedings, 2002, , .	0.4	0
197	The magnetopause shape and location: a comparison of the Interball and Geotail observations with models. Annales Geophysicae, 2002, 20, 301-309.	1.6	51
198	Cusp-like plasma in high altitudes: a statistical study of the width and location of the cusp from Magion-4. Annales Geophysicae, 2002, 20, 311-320.	1.6	42

#	ARTICLE	IF	CITATIONS
199	On the properties of turbulent boundary layer over polar cusps. <i>Nonlinear Processes in Geophysics</i> , 2002, 9, 443-451.	1.3	31
200	Density profile in the magnetosheath adjacent to the magnetopause. <i>Advances in Space Research</i> , 2002, 30, 1693-1703.	2.6	6
201	Small scale solar wind ion flux and IMF quasi-harmonical structures in the earth's foreshock: INTERBALL-1 and MAGION-4 observations. <i>Advances in Space Research</i> , 2002, 30, 2725-2729.	2.6	1
202	Spatial distribution of the magnetosheath ion flux. <i>Advances in Space Research</i> , 2002, 30, 2751-2756.	2.6	18
203	Plasma flow across the cusp-magnetosheath boundary under northward IMF. <i>Advances in Space Research</i> , 2002, 30, 2787-2792.	2.6	6
204	Low-frequency variations of the ion flux in the magnetosheath. <i>Planetary and Space Science</i> , 2002, 50, 567-575.	1.7	38
205	Multispacecraft measurements of plasma and magnetic field variations in the magnetosheath: Comparison with Spreiter models and motion of the structures. <i>Planetary and Space Science</i> , 2002, 50, 601-612.	1.7	41
206	The structure of hot flow anomalies in the magnetosheath. <i>Advances in Space Research</i> , 2002, 30, 2737-2744.	2.6	13
207	Multi-spacecraft tracing of turbulent boundary layer. <i>Advances in Space Research</i> , 2002, 30, 2821-2830.	2.6	34
208	Title is missing!. <i>Cosmic Research</i> , 2002, 40, 335-346.	0.6	2
209	Actively produced high-energy electron bursts within the magnetosphere: the APEX project. <i>Annales Geophysicae</i> , 2002, 20, 1529-1538.	1.6	10
210	Transients at the dusk side magnetospheric boundary: Surface waves or isolated plasma blobs?. <i>Journal of Geophysical Research</i> , 2001, 106, 25503-25516.	3.3	12
211	Observation of the magnetospheric "oesash" and its implications relative to solar-wind/magnetospheric coupling: A multisatellite event analysis. <i>Journal of Geophysical Research</i> , 2001, 106, 6097-6122.	3.3	24
212	Ion field emission from micrometer-sized spherical glass grains. <i>IEEE Transactions on Plasma Science</i> , 2001, 29, 292-297.	1.3	15
213	Analysis of the 3-D shape of the terrestrial bow shock by interball/magion 4 observations. <i>Advances in Space Research</i> , 2001, 28, 857-862.	2.6	47
214	Statistical Study of Ion Flux Fluctuations in the Magnetosheath. <i>European Physical Journal D</i> , 2001, 51, 853-862.	0.4	16
215	Title is missing!. <i>Cosmic Research</i> , 2001, 39, 432-438.	0.6	2
216	Turbulent boundary layer at the border of geomagnetic trap. <i>JETP Letters</i> , 2001, 74, 547-551.	1.4	30

#	ARTICLE	IF	CITATIONS
217	Observations of the radial magnetosheath profile and a comparison with gasdynamic model predictions. <i>Geophysical Research Letters</i> , 2000, 27, 2801-2804.	4.0	45
218	High-altitude cusp: INTERBALL observation. <i>Advances in Space Research</i> , 2000, 25, 1425-1434.	2.6	27
219	The flank magnetopause: INTERBALL observations. <i>Advances in Space Research</i> , 2000, 25, 1503-1510.	2.6	4
220	Medium energy proton fluxes outside the magnetopause: INTERBALL-1 data. <i>Advances in Space Research</i> , 2000, 25, 1517-1522.	2.6	7
221	Magnetosheath study: INTERBALL observation. <i>Advances in Space Research</i> , 2000, 25, 1511-1516.	2.6	13
222	Electron fluxes in the magnetotail: Statistical study. <i>Advances in Space Research</i> , 2000, 25, 1623-1628.	2.6	3
223	Statistic study of magnetosphere response to magnetic clouds: INTERBALL multi-satellite observations. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2000, 25, 177-180.	0.2	4
224	Magnetopause motion driven by interplanetary magnetic field variations. <i>Journal of Geophysical Research</i> , 2000, 105, 25155-25169.	3.3	52
225	The tilt angle control of the outer cusp position. <i>Geophysical Research Letters</i> , 2000, 27, 77-80.	4.0	22
226	Magnetosheath response to the interplanetary magnetic field tangential discontinuity. <i>Journal of Geophysical Research</i> , 2000, 105, 25113-25121.	3.3	28
227	Two-point measurements of the magnetopause: Interball observations. <i>Journal of Geophysical Research</i> , 2000, 105, 237-244.	3.3	22
228	Artificial ion beam effects on spacecraft potential. <i>Advances in Space Research</i> , 1999, 24, 1027-1032.	2.6	1
229	Low frequency plasma waves observed in the outer polar cusp. <i>Advances in Space Research</i> , 1999, 23, 1765-1768.	2.6	9
230	Comprehensive study of the magnetospheric response to a hot flow anomaly. <i>Journal of Geophysical Research</i> , 1999, 104, 4577-4593.	3.3	169
231	Bow Shock Position: Observations and Models. , 1999, , 187-201.		7
232	Plasma and Magnetic Field Variations in the Magnetosheath: Interball-1 and ISTP Spacecraft Observations. , 1999, , 277-294.		4
233	Solar wind modification in the foreshock. , 1999, , .		2
234	The High-Altitude Cusp: Interball Observations. , 1999, , 125-143.		1

#	ARTICLE	IF	CITATIONS
235	Evolution of the auroral oval during a weak substorm. <i>European Physical Journal D</i> , 1998, 48, 103-112.	0.4	0
236	Observations of the beam-plasma interaction during the APEX artificial electron beam emission. <i>Advances in Space Research</i> , 1998, 21, 723-728.	2.6	1
237	Surface potential of small particles charged by the medium-energy electron beam. <i>Vacuum</i> , 1998, 50, 139-142.	3.5	39
238	Auroral oval dynamics: Comparison of APEX and DMSP observations. <i>Advances in Space Research</i> , 1998, 22, 1341-1344.	2.6	0
239	Two point observation of high-latitude reconnection. <i>Geophysical Research Letters</i> , 1998, 25, 4301-4304.	4.0	36
240	The January 10-11, 1997 magnetic cloud: Multipoint measurements. <i>Geophysical Research Letters</i> , 1998, 25, 2549-2552.	4.0	11
241	Transient flux enhancements in the magnetosheath. <i>Geophysical Research Letters</i> , 1998, 25, 1273-1276.	4.0	94
242	Artificial electron and ion beam effects: Active Plasma Experiment. <i>Journal of Geophysical Research</i> , 1997, 102, 2201-2211.	3.3	15
243	INTERBALL magnetotail boundary case studies. <i>Advances in Space Research</i> , 1997, 20, 999-1015.	2.6	10
244	Propagation of electron bursts in the low-latitude magnetosphere. <i>European Physical Journal D</i> , 1997, 47, 337-350.	0.4	0
245	Structure of the low-latitude magnetopause: MAGION-4 observations. <i>Annales Geophysicae</i> , 1997, 15, 553-561.	1.6	27
246	Small scale observation of magnetopause motion: preliminary results of the INTERBALL project. <i>Annales Geophysicae</i> , 1997, 15, 562-569.	1.6	96
247	Multipoint study of the solar wind: INTERBALL contribution to the topic. <i>Advances in Space Research</i> , 1997, 20, 659-670.	2.6	3
248	Two-point measurement of hot plasma structures in the magnetotail lobes. <i>Advances in Space Research</i> , 1997, 20, 993-997.	2.6	6
249	Two point observation of magnetopause motion: The INTERBALL project. <i>Advances in Space Research</i> , 1997, 20, 801-807.	2.6	9
250	Cusp and boundary layer observations by INTERBALL. <i>Advances in Space Research</i> , 1997, 20, 823-832.	2.6	21
251	Energetic particles in the vicinity of the dawn magnetopause. <i>Advances in Space Research</i> , 1997, 20, 851-856.	2.6	2
252	Auroral Oval Dynamics in Different Spatial Scales. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, S151-S157.	0.9	0

#	ARTICLE	IF	CITATIONS
253	Dynamics of the polar cap boundaries: Multipoint measurements. <i>Advances in Space Research</i> , 1996, 18, 131-134.	2.6	3
254	Latitudinal energy dispersion of the ion and electron fluxes in the auroral oval. <i>Advances in Space Research</i> , 1996, 18, 127-130.	2.6	36
255	Charged Particle Behaviour during the Active Phase of the APEX Experiment.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 57-64.	0.9	1
256	Turbulent processes upstream and downstream of the bow shock. <i>Advances in Space Research</i> , 1995, 15, 323-327.	2.6	1
257	Response of the electron energy distribution to an artificially emitted electron beam: Apex experiment. <i>Advances in Space Research</i> , 1995, 15, 33-36.	2.6	12
258	Ion distribution function in the magnetosheath: Fine structure. <i>Advances in Space Research</i> , 1994, 14, 31-34.	2.6	3
259	A behaviour of electron and ion energy and angular distribution during the active APEX experiment. <i>Advances in Space Research</i> , 1993, 13, 113-116.	2.6	10
260	The Earth's bow shock and magnetopause position as a result of the solar wind-magnetosphere interaction. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991, 53, 1049-1054.	0.9	40
261	Variability of coronal structures and ion components in the solar wind. <i>European Physical Journal D</i> , 1991, 41, 1001-1008.	0.4	1
262	The method of thermodynamic parameters calculation and its application on the study of protons and alpha particles behaviour in the bow shock. <i>European Physical Journal D</i> , 1991, 41, 381-392.	0.4	1
263	Some comments on the ion distribution function evolution in the quasiparallel shock. <i>Advances in Space Research</i> , 1991, 11, 223-226.	2.6	2
264	Solar wind protons, alpha particles and electrons in the shock wave and the potential barrier (The Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	1
265	Large- and middle-scale phenomena in the interplanetary medium: Prognoz 7, 8, 10 observations. <i>Advances in Space Research</i> , 1989, 9, 117-121.	2.6	5
266	Bow shock motion with two-point observations: Prognoz 7, 8 and ISEE 1, 2; Prognoz 10 and IMP 8. <i>Advances in Space Research</i> , 1988, 8, 171-174.	2.6	8
267	Dynamics of the earth's bow shock position. <i>Advances in Space Research</i> , 1988, 8, 167-170.	2.6	9
268	Study of the fine structure of charged particles flows in the bow shock wave. <i>European Physical Journal D</i> , 1987, 37, 239-249.	0.4	0
269	Some features of solar wind protons, $\hat{\pm}$ particles and heavy ions behaviour: The Prognoz 7 and Prognoz 8 experimental results. <i>European Physical Journal D</i> , 1987, 37, 759-774.	0.4	8
270	Project intershock: Complex analysis of the bow shock crossing on 7 May 1985. <i>Advances in Space Research</i> , 1986, 6, 45-48.	2.6	7



#	ARTICLE	IF	CITATIONS
271	Instabilities of ion flow observed downstream of the Earth's bow shock. <i>Advances in Space Research</i> , 1986, 6, 53-56.	2.6	1
272	Measurement of plasma parameters in solar wind and in shock waves. <i>European Physical Journal D</i> , 1985, 35, 557-567.	0.4	1
273	Dispersion of plasma parameters measured by a sonding satellite during a repeated transit through a bow shock wave. <i>European Physical Journal D</i> , 1985, 35, 568-578.	0.4	3
274	Measurement of the electron distribution function in flowing afterglow plasma by means of Langmuir probe. <i>European Physical Journal D</i> , 1983, 33, 1226-1229.	0.4	6
275	Direct display of the electron energy distribution in plasma by means of analog correlator. <i>European Physical Journal D</i> , 1974, 24, 117-118.	0.4	2