Zoltan VÃ¶rÃ¶s

List of Publications by Year
in descending order

111 papers	3,853 citations	159585 30 h-index	138484 58 g-index
120 all docs	120 docs citations	120 times ranked	1928 citing authors

#	Article	IF	Citations
1	The kinetic AlfvÃ©n-like nature of turbulent fluctuations in the Earth's magnetosheath: MMS measurement of the electron AlfvÃ©n ratio. Physics of Plasmas, 2022, 29, 012308.	1.9	4
2	Wave Activity in a Dynamically Evolving Reconnection Separatrix. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028520.	2.4	2
3	Magnetic Reconnection Within the Boundary Layer of a Magnetic Cloud in the Solar Wind. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029415.	2.4	6
4	A Possible Link between Turbulence and Plasma Heating. Astrophysical Journal, 2021, 921, 65.	4.5	8
5	Estimation of the Electron Density From Spacecraft Potential During Highâ€Frequency Electric Field Fluctuations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027854.	2.4	6
6	Scale Sizes of Magnetosheath Jets. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027962.	2.4	23
7	Higher-Order Statistics in Compressive Solar Wind Plasma Turbulence: High-Resolution Density Observations From the Magnetospheric MultiScale Mission. Frontiers in Physics, 2020, 8, .	2.1	11
8	Transport Ratios of the Kinetic AlfvÃ©n Mode in Space Plasmas. Frontiers in Physics, 2020, 8, .	2.1	15
9	Current Sheet Statistics in the Magnetosheath. Frontiers in Astronomy and Space Sciences, 2020, 7, .	2.8	23
10	Turbulence Near the Venusian Bow Shock: Venus Express Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027190.	2.4	8
11	Possible coexistence of kinetic AlfvÃ©n and ion Bernstein modes in sub-ion scale compressive turbulence in the solar wind. Physical Review Research, 2020, 2, .	3.6	9
12	Sub-ion Scale Compressive Turbulence in the Solar Wind: MMS Spacecraft Potential Observations. Astrophysical Journal, Supplement Series, 2020, 250, 35.	7.7	13
13	Anisotropy of the Spectral Index in Ion Scale Compressible Turbulence: MMS Observations in the Magnetosheath. Frontiers in Physics, 2019, 7, .	2.1	13
14	Energy Conversion at Kinetic Scales in the Turbulent Magnetosheath. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	11
15	MMS Observations of Whistler and Lower Hybrid Drift Waves Associated with Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2019, 124, 8551-8563.	2.4	13
16	MMS Observation of Asymmetric Reconnection Supported by 3â€Ð Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	2.4	34
17	Entropy of plasmas described with regularized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îº</mml:mi></mml:math> distributions. Physical Review E, 2018, 98, .	2.1	17
18	Magnetic Fluctuations and Turbulence in the Venusian Magnetosheath Downstream of Different Types of Bow Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8219-8226.	2.4	11

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19	Evaluation of electromotive force in interplanetary space. Annales Geophysicae, 2018, 36, 101-106.	1.6	5
20	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2017, 122, 11,442.	2.4	73
21	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 10891-10909.	2.4	17
22	Magnetosheath Highâ€Speed Jets: Internal Structure and Interaction With Ambient Plasma. Journal of Geophysical Research: Space Physics, 2017, 122, 10,157.	2.4	23
23	Lifetime estimate for plasma turbulence. Nonlinear Processes in Geophysics, 2017, 24, 673-679.	1.3	3
24	On the scaling features of magnetic field fluctuations at non-MHD scales in turbulent space plasmas. Journal of Physics: Conference Series, 2016, 767, 012003.	0.4	0
25	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. Geophysical Research Letters, 2016, 43, 5969-5978.	4.0	92
26	Wave telescope technique for MMS magnetometer. Geophysical Research Letters, 2016, 43, 4774-4780.	4.0	15
27	Current sheet flapping motions in the tailward flow of magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 7817-7827.	2.4	11
28	Two interacting X lines in magnetotail: Evolution of collision between the counterstreaming jets. Geophysical Research Letters, 2016, 43, 7795-7803.	4.0	4
29	TURBULENCE-GENERATED PROTON-SCALE STRUCTURES IN THE TERRESTRIAL MAGNETOSHEATH. Astrophysical Journal Letters, 2016, 819, L15.	8.3	22
30	Turbulence Heating ObserveR â€“ satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	2.1	60
31	Statistical investigation on the power-law behavior of magnetic fluctuations in the Venusian magnetosheath. Earth, Planets and Space, 2015, 67, .	2.5	9
32	Probability density functions for the variable solar wind near the solar cycle minimum. Journal of Geophysical Research: Space Physics, 2015, 120, 6152-6166.	2.4	10
33	In situ observations of multistage electron acceleration driven by magnetic reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 6320-6331.	2.4	28
34	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
35	Kelvin-Helmholtz instability of twisted magnetic flux tubes in the solar wind. Astronomy and Astrophysics, 2014, 561, A62.	5.1	36
36	Mirror mode structures near Venus and Comet P/Halley. Annales Geophysicae, 2014, 32, 651-657.	1.6	33

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37	RECONNECTION OUTFLOW GENERATED TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2014, 797, L10.	8.3	14
38	TWISTED MAGNETIC FLUX TUBES IN THE SOLAR WIND. Astrophysical Journal Letters, 2014, 783, L19.	8.3	18
39	Electron acceleration behind the dipolarization fronts in the magnetotail. , 2014, , .		0
40	The proton temperature anisotropy associated with bursty bulk flows in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 4875-4883.	2.4	12
41	A statistical study of electron acceleration behind the dipolarization fronts in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 4804-4810.	2.4	74
42	Proton cyclotron wave generation mechanisms upstream of Venus. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
43	Magnetic reconnection associated fluctuations in the deep magnetotail: ARTEMIS results. Nonlinear Processes in Geophysics, 2011, 18, 861-869.	1.3	24
44	Creating kappa-like distributions from a Galton board. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1248-1257.	2.6	8
45	Change of solar wind quasi-invariant in solar cycle 23â€"Analysis of PDFs. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 290-293.	1.6	9
46	Magnetic Turbulence in the Geospace Environment. Space Science Reviews, 2010, 156, 89-134.	8.1	124
47	Is current disruption associated with an inverse cascade?. Nonlinear Processes in Geophysics, 2010, 17, 287-292.	1.3	4
48	Corrigendum to "Substorm activity in Venus's magnetotail" published in Ann. Geophys., 27, 2321â€"2330, doi:10.5194/angeo-27-2321-2009, 2009. Annales Geophysicae, 2010, 28, 1877-1878.	1.6	5
49	Statistical study of lowâ€frequency magnetic field fluctuations near Venus under the different interplanetary magnetic field orientations. Journal of Geophysical Research, 2010, 115, .	3.3	16
50	Substorm activity in Venus's magnetotail. Annales Geophysicae, 2009, 27, 2321-2330.	1.6	18
51	Solar-Terrestrial Relations: Magnetic Turbulence in the Earthâ€™s Magnetosphere and Geomagnetic Activity. Earth, Moon and Planets, 2009, 104, 127-129.	0.6	1
52	Coordinated Study on Solar Wind Turbulence During the Venus-Express, ACE and Ulysses Alignment of August 2007. Earth, Moon and Planets, 2009, 104, 101-104.	0.6	23
53	Introducing logâ€kappa distributions for solar wind analysis. Journal of Geophysical Research, 2009, 114, .	3.3	21
54	Correction to â€œIntermittent turbulence, noisy fluctuations, and wavy structures in the Venusian magnetosheath and wakeâ€• Journal of Geophysical Research, 2009, 114, .	3.3	0

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55	Evolution of kinklike fluctuations associated with ion pickup within reconnection outflows in the Earthâ€™s magnetotail. Physics of Plasmas, 2009, 16, 120701.	1.9	8
56	Hydrogen in the extended Venus exosphere. Geophysical Research Letters, 2009, 36, .	4.0	21
57	Initial Venus Express magnetic field observations of the Venus bow shock location at solar minimum. Planetary and Space Science, 2008, 56, 785-789.	1.7	71
58	Plasma sheet oscillations and their relation to substorm development: Cluster and double star TC1 case study. Advances in Space Research, 2008, 41, 1585-1592.	2.6	3
59	Study of reconnectionâ€associated multiscale fluctuations with Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	8
60	Magnetotail dipolarization and associated current systems observed by Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	14
61	Study of nearâ€Earth reconnection events with Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	59
62	First identification of mirror mode waves in Venus' magnetosheath?. Geophysical Research Letters, 2008, 35, .	4.0	50
63	Characteristic size and shape of the mirror mode structures in the solar wind at 0.72 AU. Geophysical Research Letters, 2008, 35, .	4.0	83
64	Magnetic fluctuations and turbulence in the Venus magnetosheath and wake. Geophysical Research Letters, 2008, 35, .	4.0	20
65	Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU. Geophysical Research Letters, 2008, 35, .	4.0	31
66	Proton cyclotron waves in the solar wind at Venus. Journal of Geophysical Research, 2008, 113, .	3.3	33
67	Mirrorâ€modeâ€like structures in Venus' induced magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	44
68	Intermittent turbulence, noisy fluctuations, and wavy structures in the Venusian magnetosheath and wake. Journal of Geophysical Research, 2008, 113, .	3.3	34
69	Magnetosheath Plasma Turbulence and Its Spatiotemporal Evolution as Observed by the Cluster Spacecraft. Physical Review Letters, 2008, 100, 205003.	7.8	55
70	The effect of upstream turbulence and its anisotropy on the efficiency of solar wind â€“ magnetosphere coupling. Nonlinear Processes in Geophysics, 2008, 15, 523-529.	1.3	4
71	Structure of the near-Earth plasma sheet during tailward flows. Annales Geophysicae, 2008, 26, 709-724.	1.6	4
72	The influence of solar wind turbulence on geomagnetic activity. Nonlinear Processes in Geophysics, 2008, 15, 53-59.	1.3	10

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73	Spectral scaling in the turbulent Earth's plasma sheet revisited. Nonlinear Processes in Geophysics, 2007, 14, 535-541.	1.3	30
74	Little or no solar wind enters Venusâ€™ atmosphere at solar minimum. Nature, 2007, 450, 654-656.	27.8	79
75	Spatial structure of plasma flow associated turbulence in the Earth's plasma sheet. Annales Geophysicae, 2007, 25, 13-17.	1.6	16
76	Cross-scale coupling-induced intermittency near interplanetary shocks. Journal of Geophysical Research, 2006, 111, .	3.3	14
77	Local structure of the magnetotail current sheet: 2001 Cluster observations. Annales Geophysicae, 2006, 24, 247-262.	1.6	220
78	A statistical survey of the magnetotail current sheet. Advances in Space Research, 2006, 38, 1834-1837.	2.6	16
79	Magnetic field investigation of the Venus plasma environment: Expected new results from Venus Express. Planetary and Space Science, 2006, 54, 1336-1343.	1.7	235
80	Bursty Bulk Flow Driven Turbulence in the Earthâ€™s Plasma Sheet. Space Science Reviews, 2006, 122, 301-311.	8.1	47
81	AlfvÃ©n waves in the near-PSBL lobe: Cluster observations. Annales Geophysicae, 2006, 24, 1001-1013.	1.6	13
82	MAGNETIC TURBULENCE IN THE SOLAR WIND AND THE EARTH'S PLASMA SHEET. , 2006, , .		0
83	Neutral sheet normal direction determination. Advances in Space Research, 2005, 36, 1940-1945.	2.6	13
84	Reconstruction of the magnetotail current sheet structure using multi-point Cluster measurements. Planetary and Space Science, 2005, 53, 237-243.	1.7	74
85	Multi-point observation of the high-speed flows in the plasma sheet. Advances in Space Research, 2005, 36, 1444-1447.	2.6	17
86	Dissipation scales in the Earth's plasma sheet estimated from Cluster measurements. Nonlinear Processes in Geophysics, 2005, 12, 725-732.	1.3	22
87	Electric current and magnetic field geometry in flapping magnetotail current sheets. Annales Geophysicae, 2005, 23, 1391-1403.	1.6	171
88	A nonextensive entropy path to probability distributions in solar wind turbulence. Nonlinear Processes in Geophysics, 2005, 12, 171-180.	1.3	60
89	A Nonextensive Entropy Approach to Solar Wind Intermittency. Astrophysical Journal, 2005, 618, 547-555.	4.5	116
90	How typical are atypical current sheets?. Geophysical Research Letters, 2005, 32, .	4.0	86

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91	SCALE-DEPENDENT ANISOTROPY OF MAGNETIC FLUCTUATIONS IN THE EARTH'S PLASMA SHEET. , 2005, , 29-38.		1
92	Compressional waves in the Earth's neutral sheet. Annales Geophysicae, 2004, 22, 303-315.	1.6	27
93	Multi-scale analysis of turbulence in the Earth's current sheet. Annales Geophysicae, 2004, 22, 2525-2533.	1.6	19
94	Properties of a bifurcated current sheet observed on 29 August 2001. Annales Geophysicae, 2004, 22, 2535-2540.	1.6	24
95	Wavelet analysis of magnetic turbulence in the Earthâ€™s plasma sheet. Physics of Plasmas, 2004, 11, 1333-1338.	1.9	34
96	Spatial scale of high-speed flows in the plasma sheet observed by Cluster. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	291
97	Magnetic turbulence in the plasma sheet. Journal of Geophysical Research, 2004, 109, .	3.3	83
98	Examining the role of turbulence in the solar wind - magnetosphere interaction processes. Proceedings of the International Astronomical Union, 2004, 2004, 537-540.	0.0	1
99	Current sheet structure near magnetic X-line observed by Cluster. Geophysical Research Letters, 2003, 30, .	4.0	240
100	A statistical study of compressional waves in the tail current sheet. Journal of Geophysical Research, 2003, 108, .	3.3	37
101	Multi-scale magnetic field intermittence in the plasma sheet. Annales Geophysicae, 2003, 21, 1955-1964.	1.6	62
102	Scaling and singularity characteristics of solar wind and magnetospheric fluctuations. Nonlinear Processes in Geophysics, 2002, 9, 149-162.	1.3	28
103	Neural network prediction of geomagnetic activity: a method using local HÃ¶lder exponents. Nonlinear Processes in Geophysics, 2002, 9, 425-433.	1.3	16
104	Neural network-based nonlinear prediction of magnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 651-656.	1.6	16
105	Wavelet-based filtering of intermittent events from geomagnetic time-series. Planetary and Space Science, 2001, 49, 1219-1231.	1.7	37
106	On multifractality of high-latitude geomagnetic fluctuations. Annales Geophysicae, 2000, 18, 1273-1282.	1.6	27
107	Scaling laws from geomagnetic time series. Geophysical Research Letters, 1998, 25, 2621-2624.	4.0	15
108	Nonlinear time series analysis of geomagnetic pulsations. Nonlinear Processes in Geophysics, 1994, 1, 145-155.	1.3	5

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109	The magnetosphere as a nonlinear system. Studia Geophysica Et Geodaetica, 1994, 38, 168-186.	0.5	5
110	Synergetic Approach to Substorm Phenomenon. Geophysical Monograph Series, 0, , 461-467.	0.1	9
111	NONEXTENSIVE ENTROPY APPROACH TO SPACE PLASMA FLUCTUATIONS AND TURBULENCE. , 0, , 43-64.		1