Dmitri Klimushkin

List of Publications by Year
in descending order

73	1,439	279798	377865
papers	citations	23 h-index	34 g-index

76	76	76	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetohydrodynamic Oscillations in the Solar Corona and Earthâ€™s Magnetosphere: Towards Consolidated Understanding. Space Science Reviews, 2016, 200, 75-203.	8.1	160
2	Toroidal and poloidal AlfvÃ©n waves with arbitrary azimuthal wavenumbers in a finite pressure plasma in the Earth's magnetosphere. Annales Geophysicae, 2004, 22, 267-287.	1.6	76
3	The spatioâ€temporal characteristics of ULF waves driven by substorm injected particles. Journal of Geophysical Research: Space Physics, 2013, 118, 1737-1749.	2.4	58
4	ULF waves at Mercury: Earth, the giants, and their little brother compared. Advances in Space Research, 2004, 33, 1875-1883.	2.6	48
5	Pc5 waves generated by substorm injection: a case study. Annales Geophysicae, 2008, 26, 2053-2059.	1.6	44
6	Concerning ULF pulsations in Mercury's magnetosphere. Geophysical Research Letters, 2003, 30, .	4.0	43
7	On the ballooning instability of the coupled AlfvÃ©n and drift compressional modes. Earth, Planets and Space, 2012, 64, 777-781.	2.5	38
8	AlfvÃ©n ship waves: high-<I>m</I> ULF pulsations in the magnetosphere generated by a moving plasma inhomogeneity. Annales Geophysicae, 2008, 26, 1653-1663.	1.6	37
9	Theory of azimuthally small-scale hydromagnetic waves in the axisymmetric magnetosphere with finite plasma pressure. Annales Geophysicae, 1998, 16, 303-321.	1.6	35
10	Resonators for hydromagnetic waves in the magnetosphere. Journal of Geophysical Research, 1998, 103, 2369-2375.	3.3	34
11	On the propagation of transversally small-scale standing Alfven waves in a three-dimensionally inhomogeneous magnetosphere. Journal of Geophysical Research, 1995, 100, 9527.	3.3	32
12	Driftâ€compressional modes generated by inverted plasma distributions in the magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 4915-4923.	2.4	32
13	Generation of AlfvÃ©n waves by a plasma inhomogeneity moving in the Earthâ€™s magnetosphere. Plasma Physics Reports, 2007, 33, 391-398.	0.9	31
14	Multiradar observations of substormâ€driven ULF waves. Journal of Geophysical Research: Space Physics, 2016, 121, 5213-5232.	2.4	30
15	SuperDARN observations of highâ€m ULF waves with curved phase fronts and their interpretation in terms of transverse resonator theory. Journal of Geophysical Research, 2012, 117, .	3.3	29
16	Spatial structure and stability of coupled AlfvÃ©n and drift compressional modes in non-uniform magnetosphere: Gyrokinetic treatment. Planetary and Space Science, 2011, 59, 1613-1620.	1.7	28
17	Drift Resonance of Compressional ULF Waves and Substormâ€Injected Protons From Multipoint THEMIS Measurements. Journal of Geophysical Research: Space Physics, 2018, 123, 9406-9419.	2.4	27
18	Theory of azimuthally small-scale AlfvÃ©n waves in an axisymmetric magnetosphere with small but finite plasma pressure. Journal of Geophysical Research, 2002, 107, SMP 10-1.	3.3	26

#	Article	IF	Citations
19	Field-aligned structure of poloidal AlfvÃ©n waves in a finite pressure plasma. Annales Geophysicae, 2009, 27, 3875-3882.	1.6	26
20	Properties of frequency distribution of Pc5-range pulsations observed with the Ekaterinburg decameter radar in the nightside ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 167, 177-183.	1.6	26
21	Intermediate-<I>m</I> ULF waves generated by substorm injection: a case study. Annales Geophysicae, 2010, 28, 1499-1509.	1.6	25
22	Experimental evidence for the existence of monochromatic transverse smallâ€scale standing AlfvÃ©n waves with spatially dependent polarization. Journal of Geophysical Research: Space Physics, 2015, 120, 5443-5454.	2.4	25
23	First results of the high-resolution multibeam ULF wave experiment at the Ekaterinburg SuperDARN radar: Ionospheric signatures of coupled poloidal AlfvÃ©n and drift-compressional modes. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 130-131, 112-126.	1.6	24
24	Experimental evidence of drift compressional waves in the magnetosphere: An Ekaterinburg coherent decameter radar case study. Journal of Geophysical Research: Space Physics, 2016, 121, 1315-1326.	2.4	24
25	Giant pulsations as modes of a transverse AlfvÃ©nic resonator on the plasmapause. Earth, Planets and Space, 2013, 65, 397-409.	2.5	23
26	The propagation of high-mAlfvÃ©n waves in the Earth's magnetosphere and their interaction with high-energy particles. Journal of Geophysical Research, 2000, 105, 23303-23310.	3.3	20
27	On the equatorward phase propagation of high-m ULF pulsations observed by radars. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1677-1680.	1.6	20
28	Parallel structure of Pc1 ULF oscillations in multi-ion magnetospheric plasma at finite ion gyrofrequency. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 1327-1332.	1.6	20
29	Non-resonant instability of coupled AlfvÃ©n and drift compressional modes in magnetospheric plasma. Plasma Physics and Controlled Fusion, 2017, 59, 095005.	2.1	19
30	Eigenmodes of the Transverse AlfvÃ©nic Resonator at the Plasmapause: A Van Allen Probes Case Study. Geophysical Research Letters, 2018, 45, 10,796.	4.0	19
31	Spatial localization and azimuthal wave numbers of AlfvÃ©n waves generated by drift-bounce resonance in the magnetosphere. Annales Geophysicae, 2005, 23, 3775-3784.	1.6	18
32	Eigenmode stability analysis of drift-mirror modes in nonuniform plasmas. Annales Geophysicae, 2006, 24, 2435-2439.	1.6	17
33	On the structure of azimuthally small-scale ULF oscillations of hot space plasma in a curved magnetic field. Modes with continuous spectrum. Kinematics and Physics of Celestial Bodies, 2014, 30, 209-222.	0.6	17
34	Axisymmetric AlfvÃ©n resonances in a multi-component plasma at finite ion gyrofrequency. Annales Geophysicae, 2006, 24, 1077-1084.	1.6	17
35	Conjugate Ionosphereâ€Magnetosphere Observations of a Subâ€AlfvÃ©nic Compressional Intermediateâ€m Wave: A Case Study Using EKB Radar and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2019, 124, 3276-3290.	2.4	15
36	The spatio-temporal structure of impulse-generated azimuthalsmall-scale AlfvÃ©n waves interacting with high-energy chargedparticles in the magnetosphere. Annales Geophysicae, 2004, 22, 1053-1060.	1.6	15

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37	How energetic particles construct and destroy poloidal high- AlfvÃ©n waves in the magnetosphere. Planetary and Space Science, 2007, 55, 722-730.	1.7	13
38	The AlfvÃ©n mode gyrokinetic equation in finiteâ€pressure magnetospheric plasma. Journal of Geophysical Research: Space Physics, 2015, 120, 4465-4474.	2.4	13
39	Corrugation Instability of a Coronal Arcade. Solar Physics, 2017, 292, 1.	2.5	13
40	AlfvÃ©n Wave Parallel Electric Field in the Dipole Model of the Magnetosphere: Gyrokinetic Treatment. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028611.	2.4	13
41	Interaction between long-period ULF waves and charged particle in the magnetosphere: theory and observations (overview). SolneÄ•no-zemnaÄ¢ Fizika, 2021, 7, 33-66.	0.9	13
42	Observing magnetospheric waves propagating in the direction of electron drift with Ekaterinburg Decameter Coherent Radar. SolneÄ•no-zemnaÄ¢ Fizika, 2019, 5, 51-57.	0.9	12
43	Multispacecraft Observation of the Presubstorm Longâ€Lasting Poloidal ULF Wave. Geophysical Research Letters, 2021, 48, e2021GL096182.	4.0	12
44	Spatial structure of transversally small-scale hydromagnetic waves in a plane finite-Î² model magnetosphere. Planetary and Space Science, 1997, 45, 269-279.	1.7	11
45	On impulse excitation of the global poloidal modes in the magnetosphere. Annales Geophysicae, 2006, 24, 2429-2433.	1.6	11
46	Ballooning instability of azimuthally small scale coupled AlfvÃ©n and slow magnetoacoustic modes in two-dimensionally inhomogeneous magnetospheric plasma. Physics of Plasmas, 2018, 25, .	1.9	11
47	Spatio-temporal structure of AlfvÃ©n waves excited by a sudden impulse localized on an L-shell. Annales Geophysicae, 2012, 30, 1099-1106.	1.6	10
48	Coupled AlfvÃ©n and drift-mirror modes in non-uniform space plasmas: a gyrokinetic treatment. Plasma Physics and Controlled Fusion, 2012, 54, 015006.	2.1	10
49	On the structure of azimuthally small-scale ulf oscillations of a hot space plasma in a curved magnetic field: Modes with discrete spectra. Kinematics and Physics of Celestial Bodies, 2016, 32, 120-128.	0.6	10
50	On the spatial structure and dispersion of slow magnetosonic modes coupled with AlfvÃ©n modes in planetary magnetospheres due to field line curvature. Planetary and Space Science, 2008, 56, 1273-1279.	1.7	9
51	The Field Line Resonance in the Threeâ€Dimensionally Inhomogeneous Magnetosphere: Principal Features. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	9
52	The AlfvÃ©n wave parallel electric field in non-uniform space plasmas. Astrophysics and Space Science, 2014, 350, 579-583.	1.4	8
53	Generation of resonant AlfvÃ©n waves in the auroral oval. Annales Geophysicae, 2016, 34, 241-248.	1.6	8
54	The structure of low-frequency standing AlfvÃ©n waves in the box model of the magnetosphere with magnetic field shear. Journal of Plasma Physics, 2004, 70, 379-395.	2.1	7

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55	Spatial structure and dispersion of drift mirror waves coupled with AlfvÃ©n waves in a 1-D inhomogeneous plasma. Annales Geophysicae, 2006, 24, 2291-2297.	1.6	7
56	Ballooning Instability in the Magnetospheric Plasma: Twoâ€Dimensional Eigenmode Analysis. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027024.	2.4	7
57	Modulation of auroras by Pc5 pulsations in the dawn sector in association with reappearance of energetic particles at geosynchronous orbit. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 110-111, 1-8.	1.6	6
58	AlfvÃ©n Wave Generation by a Compact Source Moving on the Magnetopause: Asymptotic Solution. Journal of Geophysical Research: Space Physics, 2019, 124, 2720-2735.	2.4	6
59	Two modes of ion-ion hybrid waves in magnetospheric plasma. Plasma Physics and Controlled Fusion, 2020, 62, 025026.	2.1	6
60	The current state of the theory of Pc1 range ULF pulsations in magnetospheric plasma with heavy ions: A review. SolneÄno-zemnaÃ¢ Fizika, 2022, 8, 3-18.	0.9	6
61	Correspondence between the ULF wave power spatial distribution and auroral oval boundaries. SolneÄno-zemnaÃ¢ Fizika, 2016, 2, 46-65.	0.9	5
62	Azimuthally small-scale AlfvÃ©n waves in magnetosphere excited by the source of finite duration. Earth, Planets and Space, 2007, 59, 951-959.	2.5	4
63	Two kinds of mirror modes in a nonzero electron-temperature plasma. Plasma Physics and Controlled Fusion, 2012, 54, 092001.	2.1	4
64	Transverse resonator for ion-ion hybrid waves in dipole magnetospheric plasma. Plasma Physics and Controlled Fusion, 2020, 62, 095008.	2.1	4
65	The current state of the theory of Pc1 range ULF pulsations in magnetospheric plasma with heavy ions: A review. SolneÄno-zemnaÃ¢ Fizika, 2022, 8, 3-18.	0.3	4
66	Normalâ€•and Reversedâ€Boomerang Stripes on Electron Pitch Angle Distributions: Solar Wind Dynamic Pressure Effect. Geophysical Research Letters, 2022, 49, .	4.0	3
67	Hydromagnetic modes in an inhomogeneous collisionless plasma of finite pressure. Plasma Physics Reports, 2006, 32, 292-300.	0.9	2
68	SPATIAL STRUCTURE OF AZIMUTHALLY SMALL-SCALE MHD WAVES IN ONE-DIMENSIONALLY INHOMOGENEOUS FINITE PRESSURE PLASMA WITH CURVED FIELD LINES. SolneÄno-zemnaÃ¢ Fizika, 2020, 6, 50-59.	0.9	2
69	Propagation of MHD waves in a plasma in a sheared magnetic field with straight field lines. Plasma Physics Reports, 2002, 28, 335-341.	0.9	1
70	Cherenkov radiation of the fast magnetoacoustic waves in the non-uniform magnetospheric plasma. Physics of Plasmas, 2021, 28, 022901.	1.9	0
71	Integral Equations for Problems on Wave Propagation in Near-Earth Plasma. Symmetry, 2021, 13, 1395.	2.2	0
72	Spatio-temporal structure of poloidal alfvÃ©n waves in the magnetosphere. KosmÃ¬Äna Nauka Ã¬ TehnologÃ¬Ã¢, 2010, 16, 46-54.	0.5	0

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73	Interaction between long-period ULF waves and charged particle in the magnetosphere: theory and observations (overview). SolneÄ›no-zemnaÃ¢ Fizika, 2021, 7, 35-69.	0.3	0