

Pavel Mager

List of Publications by Year in descending order

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papers

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304368

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docs citations

63
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Toroidal and poloidal Alfvén waves with arbitrary azimuthal wavenumbers in a finite pressure plasma in the Earth's magnetosphere. <i>Annales Geophysicae</i> , 2004, 22, 267-287.	0.6	76
2	The spatio-temporal characteristics of ULF waves driven by substorm injected particles. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1737-1749.	0.8	58
3	ULF waves at Mercury: Earth, the giants, and their little brother compared. <i>Advances in Space Research</i> , 2004, 33, 1875-1883.	1.2	48
4	Pc5 waves generated by substorm injection: a case study. <i>Annales Geophysicae</i> , 2008, 26, 2053-2059.	0.6	44
5	Concerning ULF pulsations in Mercury's magnetosphere. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	43
6	On the ballooning instability of the coupled Alfvén and drift compressional modes. <i>Earth, Planets and Space</i> , 2012, 64, 777-781.	0.9	38
7	Alfvén ship waves: high- and low-frequency ULF pulsations in the magnetosphere generated by a moving plasma inhomogeneity. <i>Annales Geophysicae</i> , 2008, 26, 1653-1663.	0.6	37
8	Drift-compressional modes generated by inverted plasma distributions in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4915-4923.	0.8	32
9	Generation of Alfvén waves by a plasma inhomogeneity moving in the Earth's magnetosphere. <i>Plasma Physics Reports</i> , 2007, 33, 391-398.	0.3	31
10	Spatio-temporal structure of a poloidal Alfvén wave detected by Cluster adjacent to the dayside plasmapause. <i>Annales Geophysicae</i> , 2008, 26, 1805-1817.	0.6	30
11	Multiradar observations of substorm-driven ULF waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5213-5232.	0.8	30
12	SuperDARN observations of high-frequency ULF waves with curved phase fronts and their interpretation in terms of transverse resonator theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
13	Spatial structure and stability of coupled Alfvén and drift compressional modes in non-uniform magnetosphere: Gyrokinetic treatment. <i>Planetary and Space Science</i> , 2011, 59, 1613-1620.	0.9	28
14	Drift Resonance of Compressional ULF Waves and Substorm-Injected Protons From Multipoint THEMIS Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9406-9419.	0.8	27
15	Theory of azimuthally small-scale Alfvén waves in an axisymmetric magnetosphere with small but finite plasma pressure. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 10-1.	3.3	26
16	Field-aligned structure of poloidal Alfvén waves in a finite pressure plasma. <i>Annales Geophysicae</i> , 2009, 27, 3875-3882.	0.6	26
17	Properties of frequency distribution of Pc5-range pulsations observed with the Ekaterinburg decameter radar in the nightside ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 167, 177-183.	0.6	26
18	Intermediate- and low-frequency ULF waves generated by substorm injection: a case study. <i>Annales Geophysicae</i> , 2010, 28, 1499-1509.	0.6	25

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19	Experimental evidence for the existence of monochromatic transverse small-scale standing Alfvén waves with spatially dependent polarization. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5443-5454.	0.8	25
20	First results of the high-resolution multibeam ULF wave experiment at the Ekaterinburg SuperDARN radar: Ionospheric signatures of coupled poloidal Alfvén and drift-compressional modes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 130-131, 112-126.	0.6	24
21	Experimental evidence of drift compressional waves in the magnetosphere: An Ekaterinburg coherent decameter radar case study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1315-1326.	0.8	24
22	Giant pulsations as modes of a transverse Alfvénic resonator on the plasmopause. <i>Earth, Planets and Space</i> , 2013, 65, 397-409.	0.9	23
23	On the equatorward phase propagation of high-m ULF pulsations observed by radars. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1677-1680.	0.6	20
24	Parallel structure of Pc1 ULF oscillations in multi-ion magnetospheric plasma at finite ion gyrofrequency. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 1327-1332.	0.6	20
25	Non-resonant instability of coupled Alfvén and drift compressional modes in magnetospheric plasma. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 095005.	0.9	19
26	Eigenmodes of the Transverse Alfvénic Resonator at the Plasmopause: A Van Allen Probes Case Study. <i>Geophysical Research Letters</i> , 2018, 45, 10,796.	1.5	19
27	Spatial localization and azimuthal wave numbers of Alfvén waves generated by drift-bounce resonance in the magnetosphere. <i>Annales Geophysicae</i> , 2005, 23, 3775-3784.	0.6	18
28	Axisymmetric Alfvén resonances in a multi-component plasma at finite ion gyrofrequency. <i>Annales Geophysicae</i> , 2006, 24, 1077-1084.	0.6	17
29	Conjugate Ionosphere-Magnetosphere Observations of a Sub-Alfvénic Compressional Intermediate-Mode Wave: A Case Study Using EKB Radar and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3276-3290.	0.8	15
30	The spatio-temporal structure of impulse-generated azimuthal small-scale Alfvén waves interacting with high-energy charged particles in the magnetosphere. <i>Annales Geophysicae</i> , 2004, 22, 1053-1060.	0.6	15
31	Drift-compression waves propagating in the direction of energetic electron drift in the magnetosphere. <i>Solnečno-zemna Fizika</i> , 2017, 3, 18-27.	0.2	14
32	The Alfvén mode gyrokinetic equation in finite-pressure magnetospheric plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4465-4474.	0.8	13
33	Corrugation Instability of a Coronal Arcade. <i>Solar Physics</i> , 2017, 292, 1.	1.0	13
34	Alfvén Wave Parallel Electric Field in the Dipole Model of the Magnetosphere: Gyrokinetic Treatment. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028611.	0.8	13
35	Interaction between long-period ULF waves and charged particle in the magnetosphere: theory and observations (overview). <i>Solnečno-zemna Fizika</i> , 2021, 7, 33-66.	0.2	13
36	Observing magnetospheric waves propagating in the direction of electron drift with Ekaterinburg Decameter Coherent Radar. <i>Solnečno-zemna Fizika</i> , 2019, 5, 51-57.	0.2	12

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37	Multispacecraft Observation of the Presubstorm Long-Lasting Poloidal ULF Wave. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096182.	1.5	12
38	On impulse excitation of the global poloidal modes in the magnetosphere. <i>Annales Geophysicae</i> , 2006, 24, 2429-2433.	0.6	11
39	Ballooning instability of azimuthally small scale coupled Alfvén and slow magnetoacoustic modes in two-dimensionally inhomogeneous magnetospheric plasma. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	11
40	Spatio-temporal structure of Alfvén waves excited by a sudden impulse localized on an L-shell. <i>Annales Geophysicae</i> , 2012, 30, 1099-1106.	0.6	10
41	Coupled Alfvén and drift-mirror modes in non-uniform space plasmas: a gyrokinetic treatment. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 015006.	0.9	10
42	On the structure of azimuthally small-scale ulf oscillations of a hot space plasma in a curved magnetic field: Modes with discrete spectra. <i>Kinematics and Physics of Celestial Bodies</i> , 2016, 32, 120-128.	0.2	10
43	On the spatial structure and dispersion of slow magnetosonic modes coupled with Alfvén modes in planetary magnetospheres due to field line curvature. <i>Planetary and Space Science</i> , 2008, 56, 1273-1279.	0.9	9
44	The Field Line Resonance in the Three-Dimensionally Inhomogeneous Magnetosphere: Principal Features. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	9
45	The Alfvén wave parallel electric field in non-uniform space plasmas. <i>Astrophysics and Space Science</i> , 2014, 350, 579-583.	0.5	8
46	Generation of resonant Alfvén waves in the auroral oval. <i>Annales Geophysicae</i> , 2016, 34, 241-248.	0.6	8
47	The structure of low-frequency standing Alfvén waves in the box model of the magnetosphere with magnetic field shear. <i>Journal of Plasma Physics</i> , 2004, 70, 379-395.	0.7	7
48	Ballooning Instability in the Magnetospheric Plasma: Two-Dimensional Eigenmode Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027024.	0.8	7
49	Correspondence between the ULF wave power spatial distribution and auroral oval boundaries. <i>Solneĭno-zemnaĭ Fizika</i> , 2016, 2, 35-45.	0.2	7
50	Alfvén Wave Generation by a Compact Source Moving on the Magnetopause: Asymptotic Solution. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2720-2735.	0.8	6
51	Two modes of ion-ion hybrid waves in magnetospheric plasma. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 025026.	0.9	6
52	The current state of the theory of Pc1 range ULF pulsations in magnetospheric plasma with heavy ions: A review. <i>Solneĭno-zemnaĭ Fizika</i> , 2022, 8, 3-18.	0.2	6
53	Correspondence between the ULF wave power spatial distribution and auroral oval boundaries. <i>Solneĭno-zemnaĭ Fizika</i> , 2016, 2, 46-65.	0.2	5
54	Observing magnetospheric waves propagating in the direction of electron drift with Ekaterinburg Decameter Coherent Radar. <i>Solneĭno-zemnaĭ Fizika</i> , 2019, 5, 68-76.	0.2	5

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55	Transverse resonator for ion-ion hybrid waves in dipole magnetospheric plasma. Plasma Physics and Controlled Fusion, 2020, 62, 095008.	0.9	4
56	Drift-compression waves propagating in the direction of energetic electron drift in the magnetosphere. SolneĎno-zemnaĎ Fizika, 2017, 3, 20-29.	0.2	4
57	The current state of the theory of Pc1 range ULF pulsations in magnetospheric plasma with heavy ions: A review. SolneĎno-zemnaĎ Fizika, 2022, 8, 3-18.	0.1	4
58	Propagation of MHD waves in a plasma in a sheared magnetic field with straight field lines. Plasma Physics Reports, 2002, 28, 335-341.	0.3	1
59	Observation of drift compressional waves with a mid-latitude decameter coherent radar. SolneĎno-zemnaĎ Fizika, 2016, 2, 46-56.	0.2	1
60	Cherenkov radiation of the fast magnetoacoustic waves in the non-uniform magnetospheric plasma. Physics of Plasmas, 2021, 28, 022901.	0.7	0
61	Integral Equations for Problems on Wave Propagation in Near-Earth Plasma. Symmetry, 2021, 13, 1395.	1.1	0
62	Interaction between long-period ULF waves and charged particle in the magnetosphere: theory and observations (overview). SolneĎno-zemnaĎ Fizika, 2021, 7, 35-69.	0.1	0