

Dong-Hun Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1172567/publications.pdf>

Version: 2024-02-01

117
papers

2,573
citations

201674

27
h-index

233421

45
g-index

123
all docs

123
docs citations

123
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetospheric ULF wave coupling in the dipole model: The impulsive excitation. <i>Journal of Geophysical Research</i> , 1989, 94, 17097-17103.	3.3	194
2	Magnetohydrodynamic Oscillations in the Solar Corona and Earth's Magnetosphere: Towards Consolidated Understanding. <i>Space Science Reviews</i> , 2016, 200, 75-203.	8.1	160
3	Dynamics of MHD wave propagation in the low-latitude magnetosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 15371-15386.	3.3	91
4	Impulsive excitation of ULF waves in the three-dimensional dipole model: The initial results. <i>Journal of Geophysical Research</i> , 1991, 96, 3479-3486.	3.3	82
5	MHD waves in a three-dimensional dipolar magnetic field: A search for Pi2 pulsations. <i>Journal of Geophysical Research</i> , 1999, 104, 28691-28699.	3.3	80
6	Response of the dipole magnetosphere to pressure pulses. <i>Geophysical Research Letters</i> , 1992, 19, 937-940.	4.0	77
7	CRRES electric field study of the radial mode structure of Pi2 pulsations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	73
8	Effects of azimuthal asymmetry on ULF waves in the dipole magnetosphere. <i>Geophysical Research Letters</i> , 1990, 17, 53-56.	4.0	66
9	Undamped transverse oscillations of coronal loops as a self-oscillatory process. <i>Astronomy and Astrophysics</i> , 2016, 591, L5.	5.1	65
10	Compressional MHD waves in the magnetosphere: A new approach. <i>Journal of Geophysical Research</i> , 1999, 104, 12379-12385.	3.3	57
11	On the generation mechanism of Pi 2 pulsations in the magnetosphere. <i>Geophysical Research Letters</i> , 1998, 25, 583-586.	4.0	55
12	Monochromatic ULF wave excitation in the dipole magnetosphere. <i>Journal of Geophysical Research</i> , 1991, 96, 5811-5817.	3.3	52
13	Detection of ultralow-frequency cavity modes using spacecraft data. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1.	3.3	52
14	Solar-Wind Proton Anisotropy Versus Beta Relation. <i>Physical Review Letters</i> , 2013, 110, 071103.	7.8	51
15	Theory of the propagation of coupled waves in arbitrarily inhomogeneous stratified media. <i>Europhysics Letters</i> , 2005, 69, 207-213.	2.0	48
16	Sounding of the plasmasphere by Mid-continent Magnetoseismic Chain (McMAC) magnetometers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3077-3086.	2.4	44
17	Nonlinear spatiotemporal evolution of whistler mode chorus waves in Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
18	EMIC waves observed at geosynchronous orbit under quiet geomagnetic conditions ($Kp < 1$). <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1377-1390.	2.4	39

#	ARTICLE	IF	CITATIONS
19	Non-stationary quasi-periodic pulsations in solar and stellar flares. Plasma Physics and Controlled Fusion, 2019, 61, 014024.	2.1	38
20	Magnetospheric responses to sudden and quasiperiodic solar wind variations. Journal of Geophysical Research, 2002, 107, SMP 36-1.	3.3	35
21	Tamao travel time of sudden impulses and its relationship to ionospheric convection vortices. Journal of Geophysical Research, 2006, 111, .	3.3	34
22	Multipoint observation of fast mode waves trapped in the dayside plasmasphere. Journal of Geophysical Research, 2010, 115, .	3.3	34
23	Pi2 pulsations associated with poleward boundary intensifications during the absence of substorms. Journal of Geophysical Research, 2005, 110, .	3.3	31
24	Effects of heavy ions on ULF wave resonances near the equatorial region. Journal of Geophysical Research, 2008, 113, .	3.3	31
25	Resonant absorption and mode conversion in a transition layer between positive-index and negative-index media. Optics Express, 2008, 16, 18505.	3.4	30
26	Invariant imbedding theory of mode conversion in inhomogeneous plasmas. II. Mode conversion in cold, magnetized plasmas with perpendicular inhomogeneity. Physics of Plasmas, 2006, 13, 042103.	1.9	29
27	Comparison of neural network and support vector machine methods for <i>Kp</i> forecasting. Journal of Geophysical Research: Space Physics, 2013, 118, 5109-5117.	2.4	29
28	Invariant imbedding theory of mode conversion in inhomogeneous plasmas. I. Exact calculation of the mode conversion coefficient in cold, unmagnetized plasmas. Physics of Plasmas, 2005, 12, 062101.	1.9	26
29	Comparison of <i>Dst</i> forecast models for intense geomagnetic storms. Journal of Geophysical Research, 2012, 117, .	3.3	25
30	Parameter spaces for linear and nonlinear whistler-mode waves. Physics of Plasmas, 2013, 20, .	1.9	24
31	Pi2 pulsations observed from the Polar satellite outside the plasmopause. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	22
32	Oblique nonlinear whistler wave. Journal of Geophysical Research: Space Physics, 2014, 119, 1851-1862.	2.4	22
33	Inferring magnetospheric heavy ion density using EMIC waves. Journal of Geophysical Research: Space Physics, 2015, 120, 6464-6473.	2.4	22
34	On the origin of the dawn-dusk asymmetry of toroidal Pc5 waves. Journal of Geophysical Research: Space Physics, 2016, 121, 9632-9650.	2.4	22
35	Low-latitude Pi2 pulsations during intervals of quiet geomagnetic conditions (<i>K_p</i>). Journal of Geophysical Research: Space Physics, 2013, 118, 6145-6153.	2.4	21
36	Generation of ULF Waves by Fluctuations in the Magnetopause Position. Geophysical Monograph Series, 0, , 273-281.	0.1	21

#	ARTICLE	IF	CITATIONS
37	Loss of geosynchronous relativistic electrons by EMIC wave scattering under quiet geomagnetic conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8357-8371.	2.4	21
38	MHD eigenmodes in the inner magnetosphere. <i>Geophysical Monograph Series</i> , 2006, , 73-89.	0.1	20
39	Resonant absorption of ULF waves at Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
40	Numerical studies on the propagation of sudden impulses in the dipole magnetosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 8435-8445.	3.3	19
41	Compressional MHD wave transport in the magnetosphere 1. Reflection and transmission across the plasmopause. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 16-1.	3.3	19
42	Cluster observations in the magnetotail during sudden and quasiperiodic solar wind variations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
43	Dependence of solar proton events on their associated activities: Flare parameters. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
44	Field line resonances in a nonaxisymmetric magnetic field. <i>Journal of Geophysical Research</i> , 2000, 105, 10703-10711.	3.3	18
45	Quantitative test of the cavity resonance explanation of plasmaspheric Pi2 frequencies. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 4-1.	3.3	18
46	Pi2 pulsations in the inner magnetosphere simultaneously observed by the Active Magnetospheric Particle Tracer Explorers/Charge Composition Explorer and Dynamics Explorer 1 satellites. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	18
47	Empirical versus exact numerical quasilinear analysis of electromagnetic instabilities driven by temperature anisotropy. <i>Journal of Plasma Physics</i> , 2012, 78, 47-54.	2.1	18
48	Occurrence of EMIC waves and plasmaspheric plasmas derived from THEMIS observations in the outer magnetosphere: Revisit. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9443-9458.	2.4	18
49	A comparison of Pi2 pulsations in the inner magnetosphere and magnetic pulsations at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2001, 106, 18865-18872.	3.3	17
50	Resonant absorption of ULF waves near the ion cyclotron frequency: A simulation study. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	16
51	Exact analytical expressions for the dispersion relation of one-dimensional chiral photonic crystals. <i>Waves in Random and Complex Media</i> , 2006, 16, 75-84.	2.7	15
52	Global MHD simulation of the geomagnetic sudden commencement on 21 October 1999. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
53	Resonant enhancement of mode conversion in unmagnetized plasmas due to a periodic density modulation superimposed on a linear electron density profile. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	15
54	Statistical comparison of interplanetary conditions causing intense geomagnetic storms ($Dst \sim -100$) Tj ETQq0,0,0 rgBT /Qverlock 1	3.3	15

#	ARTICLE	IF	CITATIONS
55	Simultaneous Pi2 observations by the Van Allen Probes inside and outside the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4567-4575.	2.4	15
56	Spectral characteristics of steady quiet-time EMIC waves observed at geosynchronous orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8640-8660.	2.4	15
57	Realistic magnetospheric density model for 29 August 2000. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 615-628.	1.6	14
58	A comparison of THEMIS Pi2 observations near the dawn and dusk sectors in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	14
59	Local time-dependent Pi2 frequencies confirmed by simultaneous observations from THEMIS probes in the inner magnetosphere and at low-latitude ground stations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
60	Field-line resonance structures in Mercury's multi-ion magnetosphere. <i>Earth, Planets and Space</i> , 2013, 65, 447-451.	2.5	14
61	Relativistic electron acceleration by oblique whistler waves. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	13
62	Possible evidence of virtual resonance in the dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	12
63	Statistical analysis of SC-associated geosynchronous magnetic field perturbations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
64	Numerical Studies on ULF Wave Structures in the Dipole Model. <i>Geophysical Monograph Series</i> , 2013, , 293-297.	0.1	12
65	Roles of Flow Braking, Plasmaspheric Virtual Resonances, and Ionospheric Currents in Producing Ground Pi2 Pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9187-9203.	2.4	12
66	Thermal Analysis of TRIO-CINEMA Mission. <i>Journal of Astronomy and Space Sciences</i> , 2012, 29, 23-31.	1.0	12
67	Magnetospheric responses to the passage of the interplanetary shock on 24 November 2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
68	Three-dimensional simulations of the lunar sodium exosphere and its tail. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	10
69	Temperature dependence of mode conversion in warm, unmagnetized plasmas with a linear density profile. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
70	Generation of field-aligned currents in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , 2001, 28, 1883-1886.	4.0	9
71	Evidence for component merging near the subsolar magnetopause: Geotail observations. <i>Geophysical Research Letters</i> , 2002, 29, 4-1-4-3.	4.0	9
72	Effects of ionospheric damping on MHD wave mode structure. <i>Earth, Planets and Space</i> , 2004, 56, e33-e36.	2.5	9

#	ARTICLE	IF	CITATIONS
73	Conversion of ordinary and extraordinary waves into upper hybrid waves in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2005, 12, 052903.	1.9	9
74	Large electric field at the nightside plasmopause observed by the Polar spacecraft. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
75	Propagation of sudden impulses in the magnetosphere: Linear waves. <i>Advances in Space Research</i> , 2000, 25, 1531-1539.	2.6	8
76	Statistical characteristics of secondary ozone density peak observed in Korea. <i>Advances in Space Research</i> , 2005, 36, 952-957.	2.6	8
77	The two-micron spectral characteristics of the Titanian haze derived from Cassini/VIMS solar occultation spectra. <i>Planetary and Space Science</i> , 2013, 88, 93-99.	1.7	8
78	Electron Inertial Effects on Linearly Polarized Electromagnetic Ion Cyclotron Waves at Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2643-2655.	2.4	8
79	Localization of Ultra-Low Frequency Waves in Multi-Ion Plasmas of the Planetary Magnetosphere. <i>Journal of Astronomy and Space Sciences</i> , 2015, 32, 289-295.	1.0	8
80	Pi2 pulsations in a small and strongly asymmetric plasmasphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	7
81	Substorm and pseudo-substorm Pi2 pulsations observed during the interval of quasi-periodic magnetotail flow bursts: A case study. <i>Earth, Planets and Space</i> , 2010, 62, 413-425.	2.5	7
82	Statistical analysis of geosynchronous magnetic field perturbations near midnight during sudden commencements. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4668-4680.	2.4	7
83	Waves in Space Plasmas. <i>AIP Conference Proceedings</i> , 2009, , .	0.4	6
84	MHD simulations using average solar wind conditions for substorms observed under northward IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7672-7686.	2.4	6
85	Rocket soundings of ozone profiles in the stratosphere over the Korean Peninsula. <i>Journal of Geophysical Research</i> , 1997, 102, 16121-16126.	3.3	5
86	Simultaneous ground-based and satellite observations of Pc5 geomagnetic pulsations: A case study using multipoint measurements. <i>Earth, Planets and Space</i> , 2006, 58, 873-883.	2.5	5
87	Propagation of p-polarized electromagnetic waves obliquely incident on stratified random media: Random phase approximation. <i>Waves in Random and Complex Media</i> , 2007, 17, 43-53.	2.7	5
88	Construction of a Thermal Vacuum Chamber for Environment Test of Triple CubeSat Mission TRIO-CINEMA. <i>Journal of Astronomy and Space Sciences</i> , 2013, 30, 335-344.	1.0	5
89	Jovian aurorae. <i>Reports on Progress in Physics</i> , 1998, 61, 525-568.	20.1	4
90	Kalman filter technique for defining solar regular geomagnetic variations: Comparison of analog and digital methods at Sodankylä Observatory. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	4

#	ARTICLE	IF	CITATIONS
91	On the centennial trend estimates of geomagnetic activity indices. Journal of Geophysical Research, 2012, 117, .	3.3	4
92	Long-term changes in indices of geomagnetic activity at the auroral station Sodankylä. Advances in Space Research, 2012, 50, 690-699.	2.6	4
93	The source of the steep plasma density gradient in middle latitudes during the 11–12 April 2001 storm. Journal of Geophysical Research, 2012, 117, .	3.3	4
94	Transpolar Arcs During a Prolonged Radial Interplanetary Magnetic Field Interval. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029197.	2.4	4
95	On the Persistent Poloidal Alfvén Waves. Geophysical Research Letters, 2021, 48, e2021GL092945.	4.0	4
96	Theory of one-dimensional solitons, polarons, and multipolarons: An alternative formulation. Physical Review B, 2000, 61, 10768-10776.	3.2	3
97	Nonlinear MHD wave propagation in the magnetosphere: A time-dependent approach. Journal of Geophysical Research, 2000, 105, 23345-23352.	3.3	3
98	Simultaneous satellite and ground observations of transient events near the morningside magnetopause. Journal of Geophysical Research, 2001, 106, 5743-5760.	3.3	3
99	Finite-beta effects on quasi-linear diffusion coefficients. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
100	Electron Debye scale Kelvin-Helmholtz instability: Electrostatic particle-in-cell simulations. Physics of Plasmas, 2015, 22, 122113.	1.9	3
101	Magnetic Field Oscillations Observed by Swarm Satellites in the Nightside Upper Ionosphere During Low-latitude Pi2 Pulsations. Journal of Geophysical Research: Space Physics, 2019, 124, 6596-6612.	2.4	3
102	Statistical Analysis of Low-latitude Pi2 Pulsations Observed at Bohyun Station in Korea. Journal of Astronomy and Space Sciences, 2013, 30, 25-32.	1.0	3
103	Variation of Floating Potential in the Topside Ionosphere Observed by STSAT-1. Journal of Astronomy and Space Sciences, 2014, 31, 311-315.	1.0	3
104	Development and Test of 2.5-Dimensional Electromagnetic PIC Simulation Code. Journal of Astronomy and Space Sciences, 2015, 32, 45-50.	1.0	3
105	Spacecraft potential variations inside the magnetopause during transient events: Geotail observations. Journal of Geophysical Research, 2001, 106, 26103-26109.	3.3	2
106	Investigations of MHD wave coupling in a 3-D numerical model: effects of temperature gradients. Advances in Space Research, 2004, 33, 742-746.	2.6	2
107	Overview of scientific payloads onboard the KSR-III rocket. Acta Astronautica, 2007, 60, 880-888.	3.2	2
108	Propagation of sudden impulses in the magnetosphere: Linear and nonlinear waves. COSPAR Colloquia Series, 2002, , 175-180.	0.2	1

#	ARTICLE	IF	CITATIONS
109	Gradient methods applied to simulated ULF data: The effects of the ionospheric damping factor. Journal of Geophysical Research, 2007, 112, .	3.3	1
110	Geosynchronous Magnetic Field Response to Solar Wind Dynamic Pressure. Journal of Astronomy and Space Sciences, 2011, 28, 27-36.	1.0	1
111	Development of CINEMA Mission Uplink Communication System. Journal of Astronomy and Space Sciences, 2012, 29, 33-40.	1.0	1
112	Interplay between mode conversion and surface wave excitation phenomena in a transition layer between positive and negative index media. , 2009, , .		0
113	Mode conversion in a randomly-stratified unmagnetized plasma. , 2011, , .		0
114	Standing Kink Waves with Longitudinal Flow in Fine Threaded Coronal Loops: A New Method for the Coronal Seismology through Beat and Damped Waves. Publication of the Astronomical Society of Japan, 2012, 64, 46.	2.5	0
115	Field-line resonances in a time-varying magnetosphere. Journal of the Korean Physical Society, 2014, 64, 249-253.	0.7	0
116	Reply to comment by U. Villante and M. Piersanti on "Statistical analysis of geosynchronous magnetic field perturbations near midnight during sudden commencements". Journal of Geophysical Research: Space Physics, 2015, 120, 3824-3826.	2.4	0
117	PROPAGATION OF SUDDEN IMPULSES IN A DIPOLAR MAGNETOSPHERE. Journal of the Korean Astronomical Society, 2003, 36, 101-107.	1.5	0