

Jaeheung Park

List of Publications by Year in descending order

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76
papers

1,799
citations

304602

22
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289141

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79
docs citations

79
times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-latitude plasma blobs above Africa: Exploiting GOLD and multi-satellite in situ measurements. <i>Advances in Space Research</i> , 2023, 72, 726-740.	1.2	1
2	Coordinated Observations of Rocket Exhaust Depletion: GOLD, Madrigal TEC, and Multiple Low-Earth-Orbit Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
3	Exospheric Temperature Measured by NASA's GOLD Under Low Solar Activity: Comparison With Other Data Sets. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
4	Temporal Evolution of Low-Latitude Plasma Blobs Identified From Multiple Measurements: ICON, GOLD, and Madrigal TEC. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
5	Ratio Between Over-Satellite Electron Content and Plasma Density Measured by Swarm: A Proxy for Topside Scale Height. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
6	Coherence Scale and Directivity of Nighttime Equatorial Plasma Irregularities: Results From Swarm Formation Flight. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	1
7	A Small Peak in the Swarm's Plasma Density Data at the Dayside Dip Equator. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
8	Ion Velocity and Temperature Variation Around Topside Nighttime Irregularities: Contrast Between Low- and Mid-Latitude Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028810.	0.8	10
9	Statistical Analysis of Pc1 Wave Ducting Deduced From Swarm Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029016.	0.8	8
10	Ionospheric Plasma Fluctuations Induced by the NWC Very Low Frequency Signal Transmitter. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029213.	0.8	3
11	Multi-Year Statistics of LEO Energetic Electrons as Observed by the Korean NextSat-1. <i>Space Weather</i> , 2021, 19, e2021SW002787.	1.3	2
12	Steepening Plasma Density Spectra in the Ionosphere: The Crucial Role Played by a Strong E-Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029401.	0.8	9
13	Isolated Peak of Oxygen Ion Fraction in the Post-noon Equatorial Region: ICON and SAMI3/WACCM-X. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029217.	0.8	5
14	Isolated Proton Aurora Driven by EMIC Pc1 Wave: PWING, Swarm, and NOAA POES Multi-Instrument Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095090.	1.5	7
15	Morning Overshoot of Electron Temperature as Observed by the Swarm Constellation and the International Space Station. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027299.	0.8	14
16	Ionospheric Plasma Density Oscillation Related to EMIC Pc1 Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089000.	1.5	5
17	Characteristics of Ionospheric Irregularities Using GNSS Scintillation Indices Measured at Jang Bogo Station, Antarctica (74.62°S, 164.22°E). <i>Space Weather</i> , 2020, 18, e2020SW002536.	1.3	8
18	Closure of F Region Dynamo Currents: Revisiting CHAMP Magnetic Field Data. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028522.	0.8	2

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19	Simultaneous Observations of SAR Arc and Its Ionospheric Response at Subauroral Conjugate Points (L \approx 2.5) During the St. Patrick's Day Storm in 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027321.	0.8	6
20	Latitude Dependence of Interhemispheric Field-Aligned Currents (IHFACs) as Observed by the Swarm Constellation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027694.	0.8	22
21	Modulation of Pc1 Wave Ducting by Equatorial Plasma Bubble. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088054.	1.5	10
22	Observational Evidence for the Role of Hall Conductance in Alfvén Wave Reflection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028119.	0.8	9
23	Diagnosing low-/mid-latitude ionospheric currents using platform magnetometers: CryoSat-2 and GRACE-FO. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	9
24	On the Balance Between Plasma and Magnetic Pressure Across Equatorial Plasma Depletions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5936-5944.	0.8	11
25	Long-Lasting Latitudinal Four-Peak Structure in the Nighttime Ionosphere Observed by the Swarm Constellation. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9335-9347.	0.8	17
26	Comprehensive Analysis of the Magnetic Signatures of Small-Scale Traveling Ionospheric Disturbances, as Observed by Swarm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10794-10815.	0.8	15
27	Global Characteristics of Electromagnetic Ion Cyclotron Waves Deduced From Swarm Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1325-1336.	0.8	15
28	Large-Scale Ducting of Pc1 Pulsations Observed by Swarm Satellites and Multiple Ground Networks. <i>Geophysical Research Letters</i> , 2018, 45, 12,703.	1.5	17
29	Climatology of GPS signal loss observed by Swarm satellites. <i>Annales Geophysicae</i> , 2018, 36, 679-693.	0.6	30
30	Alfvén waves in the auroral region, their Poynting flux, and reflection coefficient as estimated from Swarm observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2345-2360.	0.8	24
31	On the direction of the Poynting flux associated with equatorial plasma depletions as derived from Swarm. <i>Geophysical Research Letters</i> , 2017, 44, 5884-5891.	1.5	17
32	Periodicity in the occurrence of equatorial plasma bubbles derived from the C/NOFS observations in 2008–2012. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1137-1145.	0.8	12
33	Morphology of high-latitude plasma density perturbations as deduced from the total electron content measurements onboard the Swarm constellation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1338-1359.	0.8	14
34	Magnetopause erosion during the 17 March 2015 magnetic storm: Combined field-aligned currents, auroral oval, and magnetopause observations. <i>Geophysical Research Letters</i> , 2016, 43, 2396-2404.	1.5	36
35	Scale analysis of equatorial plasma irregularities derived from Swarm constellation. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	51
36	Variation of the topside ionosphere during the last solar minimum period studied with multisatellite measurements of electron density and temperature. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7269-7286.	0.8	12

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37	Hemispheric asymmetry in transition from equatorial plasma bubble to blob as deduced from 630.0Ånm airglow observations at low latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 881-893.	0.8	3
38	Statistical survey of nighttime midlatitude magnetic fluctuations: Their source location and Poynting flux as derived from the Swarm constellation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,235.	0.8	11
39	Daytime midlatitude plasma depletions observed by Swarm: Topside signatures of the rocket exhaust. <i>Geophysical Research Letters</i> , 2016, 43, 1802-1809.	1.5	21
40	Full-field sub-wavelength imaging with a multiple scattering. , 2015, , .		0
41	The interhemispheric and $<i>F</i>$ region dynamo currents revisited with the Swarm constellation. <i>Geophysical Research Letters</i> , 2015, 42, 3069-3075.	1.5	56
42	Nighttime magnetic field fluctuations in the topside ionosphere at midlatitudes and their relation to medium-scale traveling ionospheric disturbances: The spatial structure and scale sizes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6818-6830.	0.8	18
43	Westward tilt of low-latitude plasma blobs as observed by the Swarm constellation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3187-3197.	0.8	11
44	A dayside plasma depletion observed at midlatitudes during quiet geomagnetic conditions. <i>Geophysical Research Letters</i> , 2015, 42, 967-974.	1.5	19
45	Plasma density undulations correlated with thermospheric neutral mass density in the daytime low-latitude to midlatitude topside ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6669-6678.	0.8	4
46	Field-aligned currents' scale analysis performed with the Swarm constellation. <i>Geophysical Research Letters</i> , 2015, 42, 1-8.	1.5	161
47	Noise features of the CHAMP vector magnetometer in the 1-25 Hz frequency range. <i>Sensors and Actuators A: Physical</i> , 2015, 222, 272-283.	2.0	6
48	Vertical Scale Height of the Topside Ionosphere Around the Korean Peninsula: Estimates from Ionosondes and the Swarm Constellation. <i>Journal of Astronomy and Space Sciences</i> , 2015, 32, 311-315.	0.3	9
49	Alfvén wave characteristics of equatorial plasma irregularities in the ionosphere derived from CHAMP observations. <i>Frontiers in Physics</i> , 2014, 2, .	1.0	9
50	Long-term analysis of ionospheric polar patches based on CHAMP TEC data. <i>Radio Science</i> , 2013, 48, 289-301.	0.8	79
51	Global characteristics of Pc1 magnetic pulsations during solar cycle 23 deduced from CHAMP data. <i>Annales Geophysicae</i> , 2013, 31, 1507-1520.	0.6	43
52	The Ionospheric Bubble Index deduced from magnetic field and plasma observations onboard Swarm. <i>Earth, Planets and Space</i> , 2013, 65, 1333-1344.	0.9	43
53	The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products. <i>Earth, Planets and Space</i> , 2013, 65, 1189-1200.	0.9	222
54	Plasma irregularities in the high-latitude ionospheric F-region and their diamagnetic signatures as observed by CHAMP. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11

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55	Effects of sudden stratospheric warming (SSW) on the lunital modulation of the F®ion dynamo. Journal of Geophysical Research, 2012, 117, .	3.3	19
56	Effect of sudden stratospheric warming on lunar tidal modulation of the equatorial electrojet. Journal of Geophysical Research, 2012, 117, .	3.3	81
57	In-Situ CHAMP Observation of Ionosphere-Thermosphere Coupling. Space Science Reviews, 2012, 168, 237-260.	3.7	27
58	Equatorial spread<i>F</i>-related currents: Three-dimensional simulations and observations. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	20
59	FUV spectrum in the polar region during slightly disturbed geomagnetic conditions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	4
60	Frequency-domain performance of a femtosecond laser with carrier-envelope phase stabilized by the direct locking method. Applied Physics B: Lasers and Optics, 2011, 104, 793-797.	1.1	1
61	Climatology of the inter-hemispheric field-aligned current system in the equatorial ionosphere as observed by CHAMP. Annales Geophysicae, 2011, 29, 573-582.	0.6	43
62	Neutral density depletions associated with equatorial plasma bubbles as observed by the CHAMP satellite. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 157-163.	0.6	16
63	Plasma density undulations in the nighttime mid-latitude F-region as observed by CHAMP, KOMPSAT-1, and DMSP F15. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 183-192.	0.6	24
64	Field-aligned current associated with low-latitude plasma blobs as observed by the CHAMP satellite. Annales Geophysicae, 2010, 28, 697-703.	0.6	9
65	Comparing plasma bubble occurrence rates at CHAMP and GRACE altitudes during high and low solar activity. Annales Geophysicae, 2010, 28, 1647-1658.	0.6	104
66	Non&stormtime injection of energetic particles into the slot®ion between Earth's inner and outer electron radiation belts as observed by STSAT& and NOAA&POES. Geophysical Research Letters, 2010, 37, .	1.5	8
67	Characteristics of <i>F</i>®ion dynamo currents deduced from CHAMP magnetic field measurements. Journal of Geophysical Research, 2010, 115, .	3.3	35
68	The characteristics of field-aligned currents associated with equatorial plasma bubbles as observed by the CHAMP satellite. Annales Geophysicae, 2009, 27, 2685-2697.	0.6	39
69	Implementation of the direct locking method for long-term carrier-envelope-phase stabilization of a grating-based kHz femtosecond laser. Applied Physics B: Lasers and Optics, 2009, 96, 287-291.	1.1	7
70	Magnetic signatures of medium&scale traveling ionospheric disturbances as observed by CHAMP. Journal of Geophysical Research, 2009, 114, .	3.3	25
71	The 27&day modulation of the low&latitude ionosphere during a solar maximum. Journal of Geophysical Research, 2009, 114, .	3.3	33
72	Equatorial plasma bubbles with enhanced ion and electron temperatures. Journal of Geophysical Research, 2008, 113, .	3.3	18

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73	Magnetic signatures and conjugate features of low-latitude plasma blobs as observed by the CHAMP satellite. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
74	Global distribution of equatorial plasma bubbles in the premidnight sector during solar maximum as observed by KOMPSAT-1 and Defense Meteorological Satellite Program F15. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	24
75	Energy spectra of ~170–360 keV electron microbursts measured by the Korean STSAT-1. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	24
76	Plasma blob events observed by KOMPSAT-1 and DMSP F15 in the low latitude nighttime upper ionosphere. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	43