

A J Gerrard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7001595/publications.pdf>

Version: 2024-02-01

56
papers

1,342
citations

361388

20
h-index

377849

34
g-index

64
all docs

64
docs citations

64
times ranked

1535
citing authors

#	ARTICLE	IF	CITATIONS
1	Mirror Instabilities in the Inner Magnetosphere and Their Potential for Localized ULF Wave Generation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028773.	2.4	8
2	Observations of Particle Loss due to Injection-Associated Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028503.	2.4	11
3	Upper Limit of Proton Anisotropy and Its Relation to Electromagnetic Ion Cyclotron Waves in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028614.	2.4	5
4	Daytime Pc5 Diffuse Auroral Pulsations and Their Association With Outer Magnetospheric ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029218.	2.4	5
5	The dynamics of electron holes in current sheets. <i>Physics of Plasmas</i> , 2021, 28, 012902.	1.9	1
6	Development of low-cost multi-wavelength imager system for studies of aurora and airglow. <i>Polar Science</i> , 2020, 23, 100501.	1.2	25
7	Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028128.	2.4	15
8	The 2D Structure of Foreshock-Driven Field Line Resonances Observed by THEMIS Satellite and Ground-Based Imager Conjunctions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6792-6811.	2.4	20
9	Magnetospheric chorus wave simulation with the TRISTAN-MP PIC code. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
10	Dispersive Alfvén Wave Control of O ⁺ Ion Outflow and Energy Densities in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2019, 46, 8597-8606.	4.0	23
11	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7786-7798.	2.4	34
12	High-Frequency Communications Response to Solar Activity in September 2017 as Observed by Amateur Radio Networks. <i>Space Weather</i> , 2019, 17, 118-132.	3.7	37
13	The Relationship Between EMIC Wave Properties and Proton Distributions Based on Van Allen Probes Observations. <i>Geophysical Research Letters</i> , 2019, 46, 4070-4078.	4.0	41
14	Observational evidence of the drift-mirror plasma instability in Earth's inner magnetosphere. <i>Physics of Plasmas</i> , 2019, 26, 042110.	1.9	18
15	On the Driver of Daytime Pc3 Auroral Pulsations. <i>Geophysical Research Letters</i> , 2019, 46, 553-561.	4.0	5
16	Effects of Electric Field and Neutral Wind on the Asymmetry of Equatorial Ionization Anomaly. <i>Radio Science</i> , 2018, 53, 683-697.	1.6	37
17	Modeling Amateur Radio Soundings of the Ionospheric Response to the 2017 Great American Eclipse. <i>Geophysical Research Letters</i> , 2018, 45, 4665-4674.	4.0	15
18	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6478-6493.	2.4	47

#	ARTICLE	IF	CITATIONS
19	Conjugate observations of electromagnetic ion cyclotron waves associated with traveling convection vortex events. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7336-7352.	2.4	7
20	Fast-moving diffuse auroral patches: A new aspect of daytime Pc3 auroral pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1542-1554.	2.4	5
21	Dominance of high-energy (>150 keV) heavy ion intensities in Earth's middle to outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9282-9293.	2.4	18
22	The Characteristic Pitch Angle Distributions of 1 ÅV to 600 ÅkeV Protons Near the Equator Based On Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9464-9473.	2.4	33
23	Climatology of high- β^2 plasma measurements in Earth's inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 711-726.	2.4	10
24	Short-period mesospheric gravity waves and their sources at the South Pole. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 911-919.	4.9	10
25	Ring Current He Ion Control by Bounce Resonant ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,031.	2.4	2
26	Rethinking the polar cap: Eccentric dipole structuring of ULF power at the highest corrected geomagnetic latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8475-8507.	2.4	5
27	RBSPICE measurement of ion loss during the 2015 March storm: Adiabatic response to the geomagnetic field change. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9547-9559.	2.4	2
28	Sources and characteristics of medium-scale traveling ionospheric disturbances observed by high-frequency radars in the North American sector. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3722-3739.	2.4	50
29	Extreme ionospheric ion energization and electron heating in Alfvén waves in the storm time inner magnetosphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,531.	4.0	38
30	Sustainable energy at the 100 W level for scientific sites on the Antarctic Plateau: Lessons learned from the Polar Experiment Network for Geospace Upper atmosphere Investigations-Automatic Geophysical Observatory project. <i>Review of Scientific Instruments</i> , 2014, 85, 045117.	1.3	5
31	Initial measurements of O ⁺ and He ⁺ ion decay rates observed from the Van Allen probes RBSPICE instrument. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8813-8819.	2.4	14
32	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature</i> , 2014, 515, 531-534.	27.8	159
33	Storm time response of the midlatitude thermosphere: Observations from a network of Fabry-Perot interferometers. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6758-6773.	2.4	23
34	Climatology of medium-scale traveling ionospheric disturbances observed by the midlatitude Blackstone SuperDARN radar. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7679-7697.	2.4	44
35	Quiet time observations of He ions in the inner magnetosphere as observed from the RBSPICE instrument aboard the Van Allen Probes mission. <i>Geophysical Research Letters</i> , 2014, 41, 1100-1105.	4.0	11
36	Low latitude thermospheric responses to magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3866-3876.	2.4	18

#	ARTICLE	IF	CITATIONS
37	Initial MST radar observations of upper tropospheric-lower stratospheric duct-like structures over Jicamarca, Peru. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11085-11093.	4.9	2
38	Quiet time observations of the open-closed boundary prior to the CIR-induced storm of 9 August 2008. <i>Space Weather</i> , 2011, 9, .	3.7	13
39	Observations of in-situ generated gravity waves during a stratospheric temperature enhancement (STE) event. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11913-11917.	4.9	17
40	Initial daytime and nighttime SOFDI observations of thermospheric winds from Fabry-Perot Doppler shift measurements of the 630-nm OI line-shape profile. <i>Annales Geophysicae</i> , 2011, 29, 1529-1536.	1.6	19
41	Correlations of mesospheric winds with subtle motion of the Arctic polar vortex. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 431-436.	4.9	7
42	Photometric observations of 630.0-nm OI and 427.8-nm N ₂ ⁺ emission from South Pole and McMurdo Stations during winter: Analysis of temporal variations spanning minutes to hourly timescales. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
43	Wintertime mesopause region vertical winds from Resolute Bay. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
44	PENGUIn multi-instrument observations of dayside high-latitude injections during the 23 March 2007 substorm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	8
45	Concerning the upper stratospheric gravity wave and mesospheric cloud relationship over Sondrestrom, Greenland. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 229-240.	1.6	21
46	Gravity waves and mesospheric clouds in the summer middle atmosphere: A comparison of lidar measurements and ray modeling of gravity waves over Sondrestrom, Greenland. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
47	Mesosphere inversion layers and stratosphere temperature enhancements. <i>Reviews of Geophysics</i> , 2004, 42, .	23.0	105
48	All-sky imaging observations of mesospheric fronts in OI 557.7 nm and broadband OH airglow emissions: Analysis of frontal structure, atmospheric background conditions, and potential sourcing mechanisms. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	48
49	Gravity-wave influences on Arctic mesospheric clouds as determined by a Rayleigh lidar at Sondrestrom, Greenland. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	63
50	Synoptic scale study of the Arctic polar vortex's influence on the middle atmosphere, 1, Observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1.	3.3	33
51	Mesospheric clouds and the duality of gravity waves. <i>Eos</i> , 2002, 83, 488.	0.1	5
52	A study of the role of ion-molecule chemistry in the formation of sporadic sodium layers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 845-860.	1.6	73
53	Consideration of non-Poisson distributions for lidar applications. <i>Applied Optics</i> , 2001, 40, 1488.	2.1	4
54	Year-round temperature and wave measurements of the arctic middle atmosphere for 1995-1998. <i>Geophysical Monograph Series</i> , 2000, , 213-219.	0.1	7

#	ARTICLE	IF	CITATIONS
55	Noctilucent clouds and wave dynamics: Observations at Sondrestrom, Greenland. Geophysical Research Letters, 1998, 25, 2817-2820.	4.0	24
56	Investigation of a resonance Lidar for measurement of thermospheric metastable helium. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 2023-2035.	1.6	17