

# A J Gerrard

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,342  
citations

411340

20  
h-index

425179

34  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1632  
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.                             | 0.8 | 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.                                     | 0.8 | 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.               | 0.8 | 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.                                  | 0.8 | 5         |
| 5  | The dynamics of electron holes in current sheets. <i>Physics of Plasmas</i> , 2021, 28, 012902.  | 0.7 | 1         |
| 6  | Development of low-cost multi-wavelength imager system for studies of aurora and airglow. <i>Polar Science</i> , 2020, 23, 100501.   | 0.5 | 25        |
| 7  | Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028128.                                     | 0.8 | 15        |
| 8  | The 2- $\Omega$ 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. | 0.8 | 20        |
| 9  | Magnetospheric chorus wave simulation with the TRISTAN-MP PIC code. <i>Physics of Plasmas</i> , 2019, 26, .  | 0.7 | 15        |
| 10 | Dispersive Alfvén Wave Control of O <sup>+</sup> Ion Outflow and Energy Densities in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2019, 46, 8597-8606.   | 1.5 | 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.  | 0.8 | 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.  | 1.3 | 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.  | 1.5 | 41        |
| 14 | Observational evidence of the drift-mirror plasma instability in Earth's inner magnetosphere. <i>Physics of Plasmas</i> , 2019, 26, 042110.  | 0.7 | 18        |
| 15 | On the Driver of Daytime Pc3 Auroral Pulsations. <i>Geophysical Research Letters</i> , 2019, 46, 553-561.  | 1.5 | 5         |
| 16 | Effects of Electric Field and Neutral Wind on the Asymmetry of Equatorial Ionization Anomaly. <i>Radio Science</i> , 2018, 53, 683-697.  | 0.8 | 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.  | 1.5 | 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.   | 0.8 | 47        |

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|----|--|------|-----------|
| 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.  | 0.8  | 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.   | 0.8  | 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.  | 0.8  | 18        |
| 22 | The Characteristic Pitch Angle Distributions of 1 eV to 600 keV Protons Near the Equator Based On Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9464-9473.   | 0.8  | 33        |
| 23 | Climatology of high- $\beta^2$ plasma measurements in Earth's inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 711-726.   | 0.8  | 10        |
| 24 | Short-period mesospheric gravity waves and their sources at the South Pole. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 911-919.  | 1.9  | 10        |
| 25 | Ring Current He Ion Control by Bounce Resonant ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,031.   | 0.8  | 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.  | 0.8  | 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.   | 0.8  | 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.   | 0.8  | 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.   | 1.5  | 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. | 0.6  | 5         |
| 31 | Initial measurements of O <sup>+</sup> ion and He <sup>+</sup> ion decay rates observed from the Van Allen probes RBSPICE instrument. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8813-8819.  | 0.8  | 14        |
| 32 | An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature</i> , 2014, 515, 531-534.   | 13.7 | 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.   | 0.8  | 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.   | 0.8  | 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.  | 1.5  | 11        |
| 36 | Low latitude thermospheric responses to magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3866-3876.   | 0.8  | 18        |

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|----|--|-----|-----------|
| 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.  | 1.9 | 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, .   | 1.3 | 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.  | 1.9 | 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.   | 0.6 | 19        |
| 41 | Correlations of mesospheric winds with subtle motion of the Arctic polar vortex. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 431-436.   | 1.9 | 7         |
| 42 | Photometric observations of 630.0-nm OI and 427.8-nm N <sub>2</sub> <sup>+</sup> 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.   | 0.6 | 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, .  | 9.0 | 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.   | 0.6 | 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         |

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|----|---|-----|-----------|
| 55 | Noctilucent clouds and wave dynamics: Observations at Sondrestrom, Greenland. Geophysical Research Letters, 1998, 25, 2817-2820.                                  | 1.5 | 24        |
| 56 | Investigation of a resonance Lidar for measurement of thermospheric metastable helium. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 2023-2035. | 0.6 | 17        |