# B J Anderson

List of Publications by Year
in descending order

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|---|---|---|---|
| 313 papers | 15,333 citations | 17440 63 h-index | 27406 106 g-index |
| 340 all docs | 340 docs citations | 340 times ranked | 4663 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. Physics of Plasmas, 2022, 29, . | 1.9 | 5 |
| 2 | Highâ€Latitude Electrodynamics Specified in SAMI3 Using AMPERE Fieldâ€Aligned Currents. Space Weather, 2022, 20, . | 3.7 | 4 |
| 3 | Distributions of Birkeland Current Density Observed by AMPERE are Heavyâ€Tailed or Longâ€Tailed. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 4 |
| 4 | Investigation of geomagnetic reference models based on the Iridium$$^{circledR }$$ constellation. Earth, Planets and Space, 2022, 74, . | 2.5 | 4 |
| 5 | Ionospheric Energy Input in Response to Changes in Solar Wind Driving: Statistics From the SuperDARN and AMPERE Campaigns. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 4 |
| 6 | Occurrence Statistics of Horse Collar Aurora. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 9 |
| 7 | Influence of Offâ€Sunâ€Earth Line Distance on the Accuracy of L1 Solar Wind Monitoring. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 2 |
| 8 | Lobe Reconnection and Cuspâ€Aligned Auroral Arcs. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 11 |
| 9 | Magnetosphereâ€Ionosphere Coupling via Prescribed Fieldâ€Aligned Current Simulated by the TIEGCM. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 8 |
| 10 | Magnetospheric Flux Throughput in the Dungey Cycle: Identification of Convection State During 2010. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028437. | 2.4 | 26 |
| 11 | Solar flare effects in the Earthâ€™s magnetosphere. Nature Physics, 2021, 17, 807-812. | 16.7 | 27 |
| 12 | Determining EMIC Wave Vector Properties Through Multiâ€Point Measurements: The Wave Curl Analysis. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028922. | 2.4 | 10 |
| 13 | Determination of Auroral Electrodynamic Parameters From AMPERE Fieldâ€Aligned Current Measurements. Space Weather, 2021, 19, e2020SW002677. | 3.7 | 14 |
| 14 | MMS Observations of Field Line Resonances Under Disturbed Solar Wind Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028936. | 2.4 | 2 |
| 15 | The Relationship Between Large Scale Thermospheric Density Enhancements and the Spatial Distribution of Poynting Flux. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029205. | 2.4 | 11 |
| 16 | Iridium Communications Satellite Constellation Data for Study of Earth's Magnetic Field. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009515. | 2.5 | 9 |
| 17 | An Examination of Magnetosphereâ€Ionosphere Influences During a SAPS Event. Geophysical Research Letters, 2021, 48, e2021GL095751. | 4.0 | 4 |
| 18 | The Role of Diffuse Electron Precipitation in the Formation of Subauroral Polarization Streams. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 19 |

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| 19 | Fieldâ€Aligned Current During an Interval of B<sub>Y</sub>â€Dominated Interplanetaryâ€Field; Modeledâ€toâ€Observed Comparisons. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 0 |
| 20 | A Third Generation Fieldâ€Aligned Current Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027249. | 2.4 | 7 |
| 21 | Dayside Polar Cap Density Enhancements Formed During Substorms. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028101. | 2.4 | 2 |
| 22 | An Improved Estimation of SuperDARN Heppnerâ€Maynard Boundaries Using AMPERE Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027218. | 2.4 | 9 |
| 23 | The Evolution of Longâ€Duration Cusp Spot Emission During Lobe Reconnection With Respect to Fieldâ€Aligned Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027922. | 2.4 | 13 |
| 24 | Dualâ€Lobe Reconnection and Horseâ€Collar Auroras. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028567. | 2.4 | 21 |
| 25 | A Deep Learningâ€Based Approach for Modeling the Dynamics of AMPERE Birkeland Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027908. | 2.4 | 7 |
| 26 | The BepiColomboâ€“Mio Magnetometer en Route to Mercury. Space Science Reviews, 2020, 216, 1. | 8.1 | 19 |
| 27 | Heightâ€Integrated Ionospheric Conductances Parameterized By Interplanetary Magnetic Field and Substorm Phase. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028121. | 2.4 | 10 |
| 28 | Conductance Model for Extreme Events: Impact of Auroral Conductance on Space Weather Forecasts. Space Weather, 2020, 18, e2020SW002551. | 3.7 | 24 |
| 29 | The Shape of Mercury's Magnetopause: The Picture From MESSENGER Magnetometer Observations and Future Prospects for BepiColombo. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027544. | 2.4 | 20 |
| 30 | AMPERE polar cap boundaries. Annales Geophysicae, 2020, 38, 481-490. | 1.6 | 14 |
| 31 | Event Studies of Highâ€Latitude FACs With Inverse and Assimilative Analysis of AMPERE Magnetometer Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027266. | 2.4 | 3 |
| 32 | Statistical Relations Between Auroral Electrical Conductances and Fieldâ€Aligned Currents at High Latitudes. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028008. | 2.4 | 16 |
| 33 | Observations of Extreme ICME Ram Pressure Compressing Mercuryâ€™s Dayside Magnetosphere to the Surface. Astrophysical Journal, 2020, 889, 184. | 4.5 | 22 |
| 34 | Modes of (FACs) Variability and Their Hemispheric Asymmetry Revealed by Inverse and Assimilative Analysis of Iridium Magnetometer Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027265. | 2.4 | 13 |
| 35 | Bifurcated Region 2 Fieldâ€Aligned Currents Associated With Substorms. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027041. | 2.4 | 7 |
| 36 | On the magnetic characteristics of magnetic holes in the solar wind between Mercury and Venus. Annales Geophysicae, 2020, 38, 51-60. | 1.6 | 26 |

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| 37 | Science Data Products for AMPERE. , 2020, , 141-165. | | 28 |
| 38 | Spatial and Temporal Evolution of Differentâ€Scale Ionospheric Irregularities in Central and East Siberia During the 27â€“28 May 2017 Geomagnetic Storm. Space Weather, 2020, 18, e2019SW002378. | 3.7 | 6 |
| 39 | Magnetometer in-flight offset accuracy for the BepiColombo spacecraft. Annales Geophysicae, 2020, 38, 823-832. | 1.6 | 7 |
| 40 | Investigation of Massâ€/Chargeâ€Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. Journal of Geophysical Research: Space Physics, 2019, 124, 5539-5567. | 2.4 | 15 |
| 41 | Timescales of Birkeland Currents Driven by the IMF. Geophysical Research Letters, 2019, 46, 7893-7901. | 4.0 | 17 |
| 42 | Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978. | 2.4 | 36 |
| 43 | EMIC Waves in the Outer Magnetosphere: Observations of an Offâ€Equator Source Region. Geophysical Research Letters, 2019, 46, 5707-5716. | 4.0 | 29 |
| 44 | Substorm Onset Latitude and the Steadiness of Magnetospheric Convection. Journal of Geophysical Research: Space Physics, 2019, 124, 1738-1752. | 2.4 | 17 |
| 45 | Effects of Nearly Frontal and Highly Inclined Interplanetary Shocks on Highâ€Latitude Fieldâ€Aligned Currents (FACs). Space Weather, 2019, 17, 1659-1673. | 3.7 | 9 |
| 46 | The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. Journal of Geophysical Research: Space Physics, 2018, 123, 93-103. | 2.4 | 26 |
| 47 | MMS Observation of Shockâ€Reflected He<sup>++</sup> at Earth's Quasiâ€Perpendicular Bow Shock. Geophysical Research Letters, 2018, 45, 49-55. | 4.0 | 11 |
| 48 | Relation of Fieldâ€Aligned Currents Measured by the Network of IridiumÂ® Spacecraft to Solar Wind and Substorms. Geophysical Research Letters, 2018, 45, 2151-2158. | 4.0 | 9 |
| 49 | Seasonal and Temporal Variations of Fieldâ€Aligned Currents and Ground Magnetic Deflections During Substorms. Journal of Geophysical Research: Space Physics, 2018, 123, 2696-2713. | 2.4 | 19 |
| 50 | Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278. | 2.4 | 32 |
| 51 | Magnetosphereâ€Ionosphere Connection of Stormâ€Time Regionâ€2 Fieldâ€Aligned Current and Ring Current: Arase and AMPERE Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 9545-9559. | 2.4 | 7 |
| 52 | The MESSENGER Mission: Science and Implementation Overview. , 2018, , 1-29. | | 10 |
| 53 | The Chemical Composition of Mercury. , 2018, , 30-51. | | 43 |
| 54 | Mercuryâ€™s Crust and Lithosphere: Structure and Mechanics. , 2018, , 52-84. | | 9 |

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| 57 | The Geologic History of Mercury. , 2018, , 144-175. | | 10 |
| 58 | The Geochemical and Mineralogical Diversity of Mercury. , 2018, , 176-190. | | 21 |
| 59 | Spectral Reflectance Constraints on the Composition and Evolution of Mercuryâ€™s Surface. , 2018, , 191-216. | | 9 |
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| 61 | The Tectonic Character of Mercury. , 2018, , 249-286. | | 16 |
| 62 | The Volcanic Character of Mercury. , 2018, , 287-323. | | 13 |
| 63 | Mercuryâ€™s Hollows. , 2018, , 324-345. | | 12 |
| 64 | Mercuryâ€™s Polar Deposits. , 2018, , 346-370. | | 9 |
| 65 | Observations of Mercuryâ€™s Exosphere: Composition and Structure. , 2018, , 371-406. | | 5 |
| 66 | Understanding Mercuryâ€™s Exosphere: Models Derived from MESSENGER Observations. , 2018, , 407-429. | | 8 |
| 67 | Structure and Configuration of Mercuryâ€™s Magnetosphere. , 2018, , 430-460. | | 7 |
| 68 | Mercuryâ€™s Dynamic Magnetosphere. , 2018, , 461-496. | | 8 |
| 69 | The Elusive Origin of Mercury. , 2018, , 497-515. | | 21 |
| 70 | Mercuryâ€™s Global Evolution. , 2018, , 516-543. | | 8 |
| 71 | Future Missions: Mercury after MESSENGER. , 2018, , 544-569. | | 3 |
| 72 | Index of Place Names. , 2018, , 582-584. | | 0 |

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| 73 | MMS, Van Allen Probes, GOES 13, and Groundâ€Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8331-8357. | 2.4 | 30 |
| 74 | Dawnside Wedge Current System Formed During Intense Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2018, 123, 9093-9109. | 2.4 | 14 |
| 75 | The Association of Highâ€Latitude Dayside Aurora With NBZ Fieldâ€Aligned Currents. Journal of Geophysical Research: Space Physics, 2018, 123, 3637-3645. | 2.4 | 20 |
| 76 | Temporal and Spatial Development of Global Birkeland Currents. Journal of Geophysical Research: Space Physics, 2018, 123, 4785-4808. | 2.4 | 22 |
| 77 | Swirl mission concept: Unraveling the enigma. Planetary and Space Science, 2018, 162, 73-88. | 1.7 | 1 |
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| 79 | Statistical Relations Between Fieldâ€Aligned Currents and Precipitating Electron Energy Flux. Geophysical Research Letters, 2018, 45, 8738-8745. | 4.0 | 9 |
| 80 | Timescales of Dayside and Nightside Fieldâ€Aligned Current Response to Changes in Solar Windâ€Magnetosphere Coupling. Journal of Geophysical Research: Space Physics, 2018, 123, 7307-7319. | 2.4 | 16 |
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| 82 | Exploring predictive performance: A reanalysis of the geospace model transition challenge. Space Weather, 2017, 15, 192-203. | 3.7 | 33 |
| 83 | Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. Astrophysical Journal Letters, 2017, 836, L27. | 8.3 | 85 |
| 84 | Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247. | 4.5 | 50 |
| 85 | Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856. | 3.7 | 149 |
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| 87 | Birkeland currents during substorms: Statistical evidence for intensification of Regions 1 and 2 currents after onset and a localized signature of auroral dimming. Journal of Geophysical Research: Space Physics, 2017, 122, 6455-6468. | 2.4 | 21 |
| 88 | Global observations of magnetospheric highâ€m poloidal waves during the 22 June 2015 magnetic storm. Geophysical Research Letters, 2017, 44, 3456-3464. | 4.0 | 43 |
| 89 | Structure, force balance, and topology of Earthâ€™s magnetopause. Science, 2017, 356, 960-963. | 12.6 | 10 |
| 90 | Comparison of predictive estimates of highâ€latitude electrodynamics with observations of globalâ€scale Birkeland currents. Space Weather, 2017, 15, 352-373. | 3.7 | 35 |

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| 91 | Magnetospheric Ion Evolution Across the Lowâ€Latitude Boundary Layer Separatrix. Journal of Geophysical Research: Space Physics, 2017, 122, 10,247. | 2.4 | 18 |
| 92 | Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236. | 2.4 | 31 |
| 93 | Dominance of highâ€energy (>150ÂkeV) heavy ion intensities in Earth's middle to outer magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9282-9293. | 2.4 | 18 |
| 94 | A Dynamic Model of Mercury's Magnetospheric Magnetic Field. Geophysical Research Letters, 2017, 44, 10147-10154. | 4.0 | 30 |
| 95 | Modeling observations of solar coronal mass ejections with heliospheric imagers verified with the Heliophysics System Observatory. Space Weather, 2017, 15, 955-970. | 3.7 | 65 |
| 96 | Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 9440-9463. | 2.4 | 14 |
| 97 | The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particleâ€inâ€Cell Simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,523. | 2.4 | 27 |
| 98 | Overview of Solar Windâ€“Magnetosphereâ€“Ionosphereâ€“Atmosphere Coupling and the Generation of Magnetospheric Currents. Space Science Reviews, 2017, 206, 547-573. | 8.1 | 105 |
| 99 | Near-Earth plasma sheet boundary dynamics during substorm dipolarization. Earth, Planets and Space, 2017, 69, 129. | 2.5 | 15 |
| 100 | Optimized merging of search coil and fluxgate data for MMS. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 521-530. | 1.6 | 22 |
| 101 | Magnetopause erosion during the 17 March 2015 magnetic storm: Combined fieldâ€aligned currents, auroral oval, and magnetopause observations. Geophysical Research Letters, 2016, 43, 2396-2404. | 4.0 | 36 |
| 102 | MESSENGER observations of induced magnetic fields in Mercury's core. Geophysical Research Letters, 2016, 43, 2436-2444. | 4.0 | 51 |
| 103 | Seasonal and diurnal variations in AMPERE observations of the Birkeland currents compared to modeled results. Journal of Geophysical Research: Space Physics, 2016, 121, 4027-4040. | 2.4 | 76 |
| 104 | MESSENGER observations of cusp plasma filaments at Mercury. Journal of Geophysical Research: Space Physics, 2016, 121, 8260-8285. | 2.4 | 29 |
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| 108 | Steepening of waves at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 7373-7380. | 4.0 | 14 |

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| 110 | MMS observations of ionâ€scale magnetic island in the magnetosheath turbulent plasma. Geophysical Research Letters, 2016, 43, 7850-7858. | 4.0 | 53 |
| 111 | Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. Geophysical Research Letters, 2016, 43, 7311-7318. | 4.0 | 27 |
| 112 | Force balance at the magnetopause determined with MMS: Application to flux transfer events. Geophysical Research Letters, 2016, 43, 11,941. | 4.0 | 27 |
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| 115 | A comparative study of dipolarization fronts at MMS and Cluster. Geophysical Research Letters, 2016, 43, 6012-6019. | 4.0 | 37 |
| 116 | Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. Geophysical Research Letters, 2016, 43, 5988-5996. | 4.0 | 10 |
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| 122 | The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. Space Science Reviews, 2016, 199, 105-135. | 8.1 | 390 |
| 123 | The Magnetospheric Multiscale Magnetometers. Space Science Reviews, 2016, 199, 189-256. | 8.1 | 896 |
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| 126 | MESSENGER observations of magnetospheric substorm activity in Mercury's near magnetotail. Geophysical Research Letters, 2015, 42, 3692-3699. | 4.0 | 50 |

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| 132 | Dominant modes of variability in largeâ€scale Birkeland currents. Journal of Geophysical Research: Space Physics, 2015, 120, 6722-6735. | 2.4 | 22 |
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| 137 | Inverse procedure for highâ€latitude ionospheric electrodynamics: Analysis of satelliteâ€borne magnetometer data. Journal of Geophysical Research: Space Physics, 2015, 120, 5241-5251. | 2.4 | 22 |
| 138 | Principal component analysis of Birkeland currents determined by the Active Magnetosphere and Planetary Electrodynamics Response Experiment. Journal of Geophysical Research: Space Physics, 2015, 120, 10,415. | 2.4 | 38 |
| 139 | Comprehensive survey of energetic electron events in Mercury's magnetosphere with data from the MESSENGER Gammaâ€Ray and Neutron Spectrometer. Journal of Geophysical Research: Space Physics, 2015, 120, 2851-2876. | 2.4 | 36 |
| 140 | MESSENGER observations of flux ropes in Mercuryâ€™s magnetotail. Planetary and Space Science, 2015, 115, 77-89. | 1.7 | 71 |
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| 157 | Mercury's surface magnetic field determined from protonâ€reflection magnetometry. Geophysical Research Letters, 2014, 41, 4463-4470. | 4.0 | 39 |
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| 160 | Temporal and spatial dynamics of the regions 1 and 2 Birkeland currents during substorms. Journal of Geophysical Research: Space Physics, 2013, 118, 3007-3016. | 2.4 | 52 |
| 161 | On the influence of open magnetic flux on substorm intensity: Groundâ€and spaceâ€based observations. Journal of Geophysical Research: Space Physics, 2013, 118, 2958-2969. | 2.4 | 35 |
| 162 | Global evolution of Birkeland currents on 10 min timescales: MHD simulations and observations. Journal of Geophysical Research: Space Physics, 2013, 118, 4977-4997. | 2.4 | 31 |

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