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	The Magnetospheric Multiscale Magnetometers. Space Science Reviews, 2016, 199, 189-256.	8.1	896
2	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. Space Science Reviews, 2016, 199, 105-135.	8.1	390
3	A statistical study of Pc 1â€“2 magnetic pulsations in the equatorial magnetosphere: 1. Equatorial occurrence distributions. Journal of Geophysical Research, 1992, 97, 3075-3088.	3.3	389
4	The Global Magnetic Field of Mercury from MESSENGER Orbital Observations. Science, 2011, 333, 1859-1862.	12.6	301
5	The Magnetometer Instrument on MESSENGER. Space Science Reviews, 2007, 131, 417-450.	8.1	254
6	MESSENGER Observations of Magnetic Reconnection in Mercuryâ€™s Magnetosphere. Science, 2009, 324, 606-610.	12.6	234
7	Magnetic spectral signatures in the Earth's magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1994, 99, 5877.	3.3	229
8	A statistical study of Pc 3â€“5 pulsations observed by the AMPTE/CCE Magnetic Fields Experiment, 1. Occurrence distributions. Journal of Geophysical Research, 1990, 95, 10495-10523.	3.3	226
9	Sensing global Birkeland currents with iridiumÂ® engineering magnetometer data. Geophysical Research Letters, 2000, 27, 4045-4048.	4.0	222
10	A statistical study of Pc 1â€“2 magnetic pulsations in the equatorial magnetosphere: 2. Wave properties. Journal of Geophysical Research, 1992, 97, 3089-3101.	3.3	220
11	Electromagnetic ion cyclotron waves stimulated by modest magnetospheric compressions. Journal of Geophysical Research, 1993, 98, 11369-11382.	3.3	212
12	The Structure of Mercury's Magnetic Field from MESSENGER's First Flyby. Science, 2008, 321, 82-85.	12.6	194
13	Estimation of global field aligned currents using the iridiumÂ® System magnetometer data. Geophysical Research Letters, 2001, 28, 2165-2168.	4.0	187
14	Mercury's magnetopause and bow shock from MESSENGER Magnetometer observations. Journal of Geophysical Research: Space Physics, 2013, 118, 2213-2227.	2.4	182
15	MESSENGER Observations of Extreme Loading and Unloading of Mercuryâ€™s Magnetic Tail. Science, 2010, 329, 665-668.	12.6	172
16	Ion anisotropy instabilities in the magnetosheath. Journal of Geophysical Research, 1993, 98, 1481-1488.	3.3	168
17	Mercury's Magnetosphere After MESSENGER's First Flyby. Science, 2008, 321, 85-89.	12.6	166
18	Development of large-scale Birkeland currents determined from the Active Magnetosphere and Planetary Electrodynamics Response Experiment. Geophysical Research Letters, 2014, 41, 3017-3025.	4.0	156

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19	Storm time evolution of the outer radiation belt: Transport and losses. Journal of Geophysical Research, 2006, 111, .	3.3	155
20	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	3.7	149
21	MESSENGER observations of magnetopause structure and dynamics at Mercury. Journal of Geophysical Research: Space Physics, 2013, 118, 997-1008.	2.4	141
22	Rapid scattering of radiation belt electrons by stormâ€time EMIC waves. Geophysical Research Letters, 2010, 37, .	4.0	135
23	Observational test of local proton cyclotron instability in the Earth's magnetosphere. Journal of Geophysical Research, 1996, 101, 21527-21543.	3.3	134
24	Statistical Birkeland current distributions from magnetic field observations by the Iridium constellation. Annales Geophysicae, 2008, 26, 671-687.	1.6	132
25	Lowâ€degree structure in Mercury's planetary magnetic field. Journal of Geophysical Research, 2012, 117, .	3.3	131
26	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 8087-8116.	2.4	125
27	The MESSENGER mission to Mercury: scientific payload. Planetary and Space Science, 2001, 49, 1467-1479.	1.7	118
28	Mercuryâ€™s magnetospheric magnetic field after the first two MESSENGER flybys. Icarus, 2010, 209, 23-39.	2.5	110
29	MULTI-POINT SHOCK AND FLUX ROPE ANALYSIS OF MULTIPLE INTERPLANETARY CORONAL MASS EJECTIONS AROUND 2010 AUGUST 1 IN THE INNER HELIOSPHERE. Astrophysical Journal, 2012, 758, 10.	4.5	109
30	MESSENGER observations of Mercury's magnetic field structure. Journal of Geophysical Research, 2012, 117, .	3.3	109
31	Electromagnetic ion cyclotron waves observed in the plasma depletion layer. Geophysical Research Letters, 1991, 18, 1955-1958.	4.0	105
32	Overview of Solar Windâ€“Magnetosphereâ€“Ionosphereâ€“Atmosphere Coupling and the Generation of Magnetospheric Currents. Space Science Reviews, 2017, 206, 547-573.	8.1	105
33	MESSENGER Observations of the Spatial Distribution of Planetary Ions Near Mercury. Science, 2011, 333, 1862-1865.	12.6	102
34	Electron and ion signatures of field line topology at the low-shear magnetopause. Journal of Geophysical Research, 1997, 102, 4847-4863.	3.3	100
35	Observations of two types of Pc 1-2 pulsations in the outer dayside magnetosphere. Journal of Geophysical Research, 2002, 107, SMP 20-1-SMP 20-20.	3.3	99
36	Bounded anisotropy fluid model for ion temperatures. Journal of Geophysical Research, 1994, 99, 11225.	3.3	98

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37	Magnetic flux pileup and plasma depletion in Mercury's subsolar magnetosheath. Journal of Geophysical Research: Space Physics, 2013, 118, 7181-7199.	2.4	96
38	The Magnetic Field of Mercury. Space Science Reviews, 2010, 152, 307-339.	8.1	94
39	Birkeland current system key parameters derived from Iridium observations: Method and initial validation results. Journal of Geophysical Research, 2002, 107, SMP 11-1.	3.3	91
40	Low-altitude magnetic field measurements by MESSENGER reveal Mercuryâ€™s ancient crustal field. Science, 2015, 348, 892-895.	12.6	89
41	Particle signatures of magnetic topology at the magnetopause: AMPTE/CCE observations. Journal of Geophysical Research, 1995, 100, 11805.	3.3	88
42	Interplanetary coronal mass ejections from MESSENGER orbital observations at Mercury. Journal of Geophysical Research: Space Physics, 2015, 120, 6101-6118.	2.4	88
43	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. Journal of Geophysical Research, 2012, 117, .	3.3	86
44	Observations of Mercury's northern cusp region with MESSENGER's Magnetometer. Geophysical Research Letters, 2012, 39, .	4.0	86
45	Remote and in situ observations of an unusual Earthâ€directed coronal mass ejection from multiple viewpoints. Journal of Geophysical Research, 2012, 117, .	3.3	86
46	MESSENGER observations of a fluxâ€transferâ€event shower at Mercury. Journal of Geophysical Research, 2012, 117, .	3.3	85
47	Distribution and compositional variations of plasma ions in Mercury's space environment: The first three Mercury years of MESSENGER observations. Journal of Geophysical Research: Space Physics, 2013, 118, 1604-1619.	2.4	85
48	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. Astrophysical Journal Letters, 2017, 836, L27.	8.3	85
49	Structure and dynamics of Mercury's magnetospheric cusp: MESSENGER measurements of protons and planetary ions. Journal of Geophysical Research: Space Physics, 2014, 119, 6587-6602.	2.4	79
50	MESSENGER observations of the plasma environment near Mercury. Planetary and Space Science, 2011, 59, 2004-2015.	1.7	78
51	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
52	The diffuse aurora: A significant source of ionization in the middle atmosphere. Journal of Geophysical Research, 1997, 102, 28203-28214.	3.3	75
53	Dynamics of the region 1 Birkeland current oval derived from the Active Magnetosphere and Planetary Electrodynamics Response Experiment (AMPERE). Journal of Geophysical Research, 2012, 117, .	3.3	75
54	Impact of toroidal ULF waves on the outer radiation belt electrons. Journal of Geophysical Research, 2005, 110, .	3.3	72

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55	MESSENGER observations of dipolarization events in Mercury's magnetotail. Journal of Geophysical Research, 2012, 117, .	3.3	72
56	LONGITUDINAL PROPERTIES OF A WIDESPREAD SOLAR ENERGETIC PARTICLE EVENT ON 2014 FEBRUARY 25: EVOLUTION OF THE ASSOCIATED CME SHOCK. Astrophysical Journal, 2016, 819, 72.	4.5	72
57	MESSENGER observations of flux ropes in Mercuryâ€™s magnetotail. Planetary and Space Science, 2015, 115, 77-89.	1.7	71
58	Mercuryâ€™s Complex Exosphere: Results from MESSENGERâ€™s Third Flyby. Science, 2010, 329, 672-675.	12.6	70
59	Observations of ion cyclotron waves in the solar wind near 0.3 AU. Journal of Geophysical Research, 2010, 115, .	3.3	70
60	MESSENGER orbital observations of largeâ€amplitude Kelvinâ€Helmholtz waves at Mercury's magnetopause. Journal of Geophysical Research, 2012, 117, .	3.3	69
61	Modeling of the magnetosphere of Mercury at the time of the first MESSENGER flyby. Icarus, 2010, 209, 3-10.	2.5	67
62	Mercuryâ€™s magnetosphereâ€“solar wind interaction for northward and southward interplanetary magnetic field: Hybrid simulation results. Icarus, 2010, 209, 11-22.	2.5	66
63	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	65
64	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
65	The detailed spatial structure of fieldâ€aligned currents comprising the substorm current wedge. Journal of Geophysical Research: Space Physics, 2013, 118, 7714-7727.	2.4	63
66	Determination of the properties of Mercury's magnetic field by the MESSENGER mission. Planetary and Space Science, 2004, 52, 733-746.	1.7	61
67	Impact of ULF oscillations in solar wind dynamic pressure on the outer radiation belt electrons. Geophysical Research Letters, 2006, 33, .	4.0	61
68	Seasonal and interplanetary magnetic field dependence of the field-aligned currents for both Northern and Southern Hemispheres. Annales Geophysicae, 2009, 27, 1701-1715.	1.6	60
69	Modular model for Mercury's magnetospheric magnetic field confined within the average observed magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 4503-4518.	2.4	59
70	Statistical relationship between largeâ€scale upward fieldâ€aligned currents and electron precipitation. Journal of Geophysical Research: Space Physics, 2014, 119, 6715-6731.	2.4	58
71	MESSENGER observations of large flux transfer events at Mercury. Geophysical Research Letters, 2010, 37, .	4.0	57
72	The magnitudes of the regions 1 and 2 Birkeland currents observed by AMPERE and their role in solar windâ€magnetosphereâ€ionosphere coupling. Journal of Geophysical Research: Space Physics, 2014, 119, 9804-9815.	2.4	56

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73	MESSENGER: Exploring Mercuryâ€™s Magnetosphere. Space Science Reviews, 2007, 131, 133-160.	8.1	55
74	MESSENGER observations of Mercury's magnetosphere during northward IMF. Geophysical Research Letters, 2009, 36, .	4.0	55
75	Steadyâ€state fieldâ€aligned currents at Mercury. Geophysical Research Letters, 2014, 41, 7444-7452.	4.0	55
76	A limited closure relation for anisotropic plasmas from the Earthâ€™s magnetosheath*. Physics of Plasmas, 1994, 1, 1676-1683.	1.9	54
77	Onset of nonadiabatic particle motion in the near-Earth magnetotail. Journal of Geophysical Research, 1997, 102, 17553-17569.	3.3	54
78	Characteristics of the terrestrial field-aligned current system. Annales Geophysicae, 2011, 29, 1713-1729.	1.6	54
79	Solar wind alpha particles and heavy ions in the inner heliosphere observed with MESSENGER. Journal of Geophysical Research, 2012, 117, .	3.3	54
80	MESSENGER observations of large dayside flux transfer events: Do they drive Mercury's substorm cycle?. Journal of Geophysical Research: Space Physics, 2014, 119, 5613-5623.	2.4	54
81	MMS observations of ionâ€scale magnetic island in the magnetosheath turbulent plasma. Geophysical Research Letters, 2016, 43, 7850-7858.	4.0	53
82	The UARS particle environment monitor. Journal of Geophysical Research, 1993, 98, 10649-10666.	3.3	52
83	On determining polarization characteristics of ion cyclotron wave magnetic field fluctuations. Journal of Geophysical Research, 1996, 101, 13195-13213.	3.3	52
84	Detection of ultralow-frequency cavity modes using spacecraft data. Journal of Geophysical Research, 2002, 107, SMP 7-1.	3.3	52
85	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
86	MESSENGER observations of induced magnetic fields in Mercury's core. Geophysical Research Letters, 2016, 43, 2436-2444.	4.0	51
87	Ion anisotropies in the magnetosheath. Geophysical Research Letters, 1993, 20, 1767-1770.	4.0	50
88	Observations of Kelvinâ€Helmholtz waves along the duskâ€side boundary of Mercury's magnetosphere during MESSENGER's third flyby. Geophysical Research Letters, 2010, 37, .	4.0	50
89	Ion kinetic properties in Mercury's preâ€midnight plasma sheet. Geophysical Research Letters, 2014, 41, 5740-5747.	4.0	50
90	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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91	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247.	4.5	50
92	Low-frequency magnetic fluctuation spectra in the magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1994, 99, 5893.	3.3	49
93	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
94	A superposed epoch analysis of the regions 1 and 2 Birkeland currents observed by AMPERE during substorms. Journal of Geophysical Research: Space Physics, 2014, 119, 9834-9846.	2.4	48
95	Electromagnetic ion cyclotron waves in the plasma depletion layer. Journal of Geophysical Research, 1993, 98, 13477-13490.	3.3	46
96	Effects of wave superposition on the polarization of electromagnetic ion cyclotron waves. Journal of Geophysical Research, 1996, 101, 24869-24885.	3.3	46
97	Global ionospheric and thermospheric response to the 5 April 2010 geomagnetic storm: An integrated dataâ€model investigation. Journal of Geophysical Research: Space Physics, 2014, 119, 10,358.	2.4	46
98	Plasma distribution in Mercury's magnetosphere derived from MESSENGER Magnetometer and Fast Imaging Plasma Spectrometer observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2917-2932.	2.4	46
99	Magnetic field line curvature induced pitch angle diffusion in the inner magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	45
100	Statistical analysis of the dependence of large-scale Birkeland currents on solar wind parameters. Annales Geophysicae, 2010, 28, 515-530.	1.6	45
101	Average fieldâ€aligned current configuration parameterized by solar wind conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 1294-1307.	2.4	45
102	Data-derived forecasting model for relativistic electron intensity at geosynchronous orbit. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	44
103	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. Geophysical Research Letters, 2016, 43, 5943-5952.	4.0	44
104	Intercomparison of NEAR and Wind interplanetary coronal mass ejection observations. Journal of Geophysical Research, 1999, 104, 28217-28223.	3.3	43
105	Empirical model for Î¼ scattering caused by field line curvature in a realistic magnetosphere. Journal of Geophysical Research, 2002, 107, SMP 3-1.	3.3	43
106	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
107	The Chemical Composition of Mercury. , 2018, , 30-51.		43
108	Pc1 pulsations observed by AMPTE/CCE in the Earth's outer magnetosphere. Geophysical Research Letters, 1990, 17, 1853-1856.	4.0	42

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109	Neutral composition effects on ionospheric storms at middle and low latitudes. Journal of Geophysical Research, 2005, 110, .	3.3	42
110	Modeling Mercury's internal magnetic field with smooth inversions. Earth and Planetary Science Letters, 2009, 285, 328-339.	4.4	41
111	Quasi-trapped ion and electron populations at Mercury. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	40
112	Upstream ultraâ€low frequency waves in Mercury's foreshock region: MESSENGER magnetic field observations. Journal of Geophysical Research: Space Physics, 2013, 118, 2809-2823.	2.4	40
113	MESSENGER observations of multiscale Kelvinâ€Helmholtz vortices at Mercury. Journal of Geophysical Research: Space Physics, 2015, 120, 4354-4368.	2.4	40
114	Source region of 0.2 to 1.0 Hz geomagnetic pulsation bursts. Geophysical Research Letters, 1996, 23, 769-772.	4.0	39
115	Storm time dawn-dusk asymmetry of the large-scale Birkeland currents. Journal of Geophysical Research, 2005, 110, .	3.3	39
116	Kinetic-scale magnetic turbulence and finite Larmor radius effects at Mercury. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	39
117	Survey of coherent â^¼1 Hz waves in Mercury's inner magnetosphere from MESSENGER observations. Journal of Geophysical Research, 2012, 117, .	3.3	39
118	A magnetic disturbance index for Mercury's magnetic field derived from MESSENGER Magnetometer data. Geochemistry, Geophysics, Geosystems, 2013, 14, 3875-3886.	2.5	39
119	Mercury's surface magnetic field determined from protonâ€reflection magnetometry. Geophysical Research Letters, 2014, 41, 4463-4470.	4.0	39
120	Kinetic instabilities in Mercury's magnetosphere: Threeâ€dimensional simulation results. Geophysical Research Letters, 2009, 36, .	4.0	38
121	Empirical modeling of a CIRâ€driven magnetic storm. Journal of Geophysical Research, 2010, 115, .	3.3	38
122	Plasma pressure in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	38
123	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
124	MESSENGER and Venus Express observations of the solar wind interaction with Venus. Geophysical Research Letters, 2009, 36, .	4.0	37
125	Space environment of Mercury at the time of the first MESSENGER flyby: Solar wind and interplanetary magnetic field modeling of upstream conditions. Journal of Geophysical Research, 2009, 114, .	3.3	37
126	A comparative study of dipolarization fronts at MMS and Cluster. Geophysical Research Letters, 2016, 43, 6012-6019.	4.0	37

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127	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
128	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
129	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
130	Intercomparison of ionospheric electrodynamics from the Iridium constellation with global MHD simulations. Journal of Geophysical Research, 2004, 109, .	3.3	35
131	Comparison of Interplanetary Disturbances at theNEARSpacecraft with Coronal Mass Ejections at the Sun. Astrophysical Journal, 2005, 621, 524-536.	4.5	35
132	Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. Icarus, 2010, 209, 101-124.	2.5	35
133	The interplanetary magnetic field environment at Mercury's orbit. Planetary and Space Science, 2011, 59, 2075-2085.	1.7	35
134	MESSENGER Observations of Transient Bursts of Energetic Electrons in Mercuryâ€™s Magnetosphere. Science, 2011, 333, 1865-1868.	12.6	35
135	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
136	MESSENGER observations of suprathermal electrons in Mercury's magnetosphere. Geophysical Research Letters, 2016, 43, 550-555.	4.0	35
137	Comparison of predictive estimates of highâ€latitude electrodynamics with observations of globalâ€scale Birkeland currents. Space Weather, 2017, 15, 352-373.	3.7	35
138	High-latitude poynting flux from combined Iridium and SuperDARN data. Annales Geophysicae, 2004, 22, 2861-2875.	1.6	34
139	The dayside magnetospheric boundary layer at Mercury. Planetary and Space Science, 2011, 59, 2037-2050.	1.7	33
140	Comparison of magnetic perturbation data from LEO satellite constellations: Statistics of DMSP and AMPERE. Space Weather, 2014, 12, 2-23.	3.7	33
141	Exploring predictive performance: A reanalysis of the geospace model transition challenge. Space Weather, 2017, 15, 192-203.	3.7	33
142	Magnetic impulse events and associated Pc 1 bursts at dayside high latitudes. Journal of Geophysical Research, 1996, 101, 7793-7799.	3.3	32
143	IMAGE/HENA: pressure and current distributions during the 1 October 2002 storm. Advances in Space Research, 2004, 33, 719-722.	2.6	32
144	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32

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145	High-latitude electromagnetic and particle energy flux during an event with sustained strongly northward IMF. Annales Geophysicae, 2005, 23, 1295-1310.	1.6	31
146	Observations of suprathermal electrons in Mercury's magnetosphere during the three MESSENGER flybys. Planetary and Space Science, 2011, 59, 2016-2025.	1.7	31
147	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
148	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
149	Electron transport and precipitation at Mercury during the MESSENGER flybys: Implications for electron-stimulated desorption. Planetary and Space Science, 2011, 59, 2026-2036.	1.7	30
150	An Overview of Spacecraft Observations of 10 s to 600 s Period Magnetic Pulsations in the Earth's Magnetosphere. Geophysical Monograph Series, 2013, , 25-43.	0.1	30
151	A Dynamic Model of Mercury's Magnetospheric Magnetic Field. Geophysical Research Letters, 2017, 44, 10147-10154.	4.0	30
152	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
153	Magnetic field investigation of Mercury's magnetosphere and the inner heliosphere by MMO/MGF. Planetary and Space Science, 2010, 58, 279-286.	1.7	29
154	Empirical reconstruction of storm time steady magnetospheric convection events. Journal of Geophysical Research: Space Physics, 2013, 118, 6434-6456.	2.4	29
155	First observations of Mercury's plasma mantle by MESSENGER. Geophysical Research Letters, 2015, 42, 9666-9675.	4.0	29
156	Birkeland current effects on highâ€latitude ground magnetic field perturbations. Geophysical Research Letters, 2015, 42, 7248-7254.	4.0	29
157	MESSENGER observations of cusp plasma filaments at Mercury. Journal of Geophysical Research: Space Physics, 2016, 121, 8260-8285.	2.4	29
158	EMIC Waves in the Outer Magnetosphere: Observations of an Offâ€Equator Source Region. Geophysical Research Letters, 2019, 46, 5707-5716.	4.0	29
159	The space environment of Mercury at the times of the second and third MESSENGER flybys. Planetary and Space Science, 2011, 59, 2066-2074.	1.7	28
160	Spatial distribution and spectral characteristics of energetic electrons in Mercury's magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	28
161	Science Data Products for AMPERE. , 2020, , 141-165.		28
162	Multiple spacecraft flux rope modeling of the Bastille Day magnetic cloud. Geophysical Research Letters, 2001, 28, 4417-4420.	4.0	27

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163	Comparison of large-scale Birkeland currents determined from Iridium and SuperDARN data. Annales Geophysicae, 2006, 24, 941-959.	1.6	27
164	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. Geophysical Research Letters, 2016, 43, 7311-7318.	4.0	27
165	Force balance at the magnetopause determined with MMS: Application to flux transfer events. Geophysical Research Letters, 2016, 43, 11,941.	4.0	27
166	The 17 March 2013 storm: Synergy of observations related to electric field modes and their ionospheric and magnetospheric Effects. Journal of Geophysical Research: Space Physics, 2016, 121, 10,880.	2.4	27
167	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
168	Solar flare effects in the Earthâ€™s magnetosphere. Nature Physics, 2021, 17, 807-812.	16.7	27
169	The NEAR magnetic field investigation: Science objectives at asteroid Eros 433 and experimental approach. Journal of Geophysical Research, 1997, 102, 23751-23759.	3.3	26
170	Narrowâ€band ultraâ€lowâ€frequency wave observations by MESSENGER during its January 2008 flyby through Mercury's magnetosphere. Geophysical Research Letters, 2009, 36, .	4.0	26
171	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
172	Mercuryâ€™s Internal Structure. , 2018, , 85-113.		26
173	On the magnetic characteristics of magnetic holes in the solar wind between Mercury and Venus. Annales Geophysicae, 2020, 38, 51-60.	1.6	26
174	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
175	Intense dayside Joule heating during the 5 April 2010 geomagnetic storm recovery phase observed by AMIE and AMPERE. Journal of Geophysical Research, 2012, 117, .	3.3	25
176	Cyclic reformation of a quasiâ€parallel bow shock at Mercury: MESSENGER observations. Journal of Geophysical Research: Space Physics, 2013, 118, 6457-6464.	2.4	25
177	Relationship between Region 2 field-aligned current and the ring current: Model results. Journal of Geophysical Research, 2006, 111, .	3.3	24
178	Reconstruction of propagating Kelvinâ€“Helmholtz vortices at Mercury's magnetopause. Planetary and Space Science, 2011, 59, 2051-2057.	1.7	24
179	Reduction in fieldâ€aligned currents preceding and local to auroral substorm onset. Geophysical Research Letters, 2012, 39, .	4.0	24
180	Forcing the TIEGCM model with Birkeland currents from the Active Magnetosphere and Planetary Electrodynamics Response Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	24

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