

Scott A Boardsen

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,359
citations

236833

25
h-index

206029

48
g-index

74
all docs

74
docs citations

74
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetospheres of Terrestrial Exoplanets and Exomoons: Implications for Habitability and Detection. <i>Astrophysical Journal Letters</i> , 2021, 907, L45.	3.0	9
2	Observations of Density Cavities and Associated Warm Ion Flux Enhancements in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028326.	0.8	3
3	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092376.	1.5	6
4	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912.	0.8	6
5	HAPI: An API Standard for Accessing Heliophysics Time Series Data. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	10
6	The Importance of Electron Landau Damping for the Dissipation of Turbulent Energy in Terrestrial Magnetosheath Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	15
7	When the Moon had a magnetosphere. <i>Science Advances</i> , 2020, 6, .	4.7	11
8	Particle-in-Cell Simulation of Rising-Tone Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089671.	1.5	8
9	Two-Dimensional Hybrid Particle-in-Cell Simulations of Magnetosonic Waves in the Dipole Magnetic Field: On a Constant L -Shell. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028414.	0.8	5
10	Local Heating of Oxygen Ions in the Presence of Magnetosonic Waves: Possible Source for the Warm Plasma Cloak?. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027210.	0.8	12
11	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	0.8	12
12	Fine Harmonic Structure of Equatorial Noise with a Quasiperiodic Modulation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027509.	0.8	4
13	Upstream Ultra-low Frequency Waves Observed by MESSENGER's Magnetometer: Implications for Particle Acceleration at Mercury's Bow Shock. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087350.	1.5	9
14	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Low-Latitude Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086315.	1.5	4
15	EMIC Waves Converted From Equatorial Noise Due to $M/Q = 2$ Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. <i>Geophysical Research Letters</i> , 2019, 46, 5662-5669.	1.5	31
16	Equatorial Propagation of the Magnetosonic Mode Across the Plasmopause: 2D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4424-4444.	0.8	9
17	EMIC Wave-Driven Bounce Resonance Scattering of Energetic Electrons in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2484-2496.	0.8	18
18	Energy partitioning constraints at kinetic scales in low- β^2 turbulence. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	25

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19	Equatorial Evolution of the Fast Magnetosonic Mode in the Source Region: Observation–Simulation Comparison of the Preferential Propagation Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9532-9544.	0.8	8
20	Equatorial Noise With Quasiperiodic Modulation: Multipoint Observations by the Van Allen Probes Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4809-4819.	0.8	4
21	Particle–Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1– Along the Radial Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7424-7440.	0.8	5
22	Determining the Wave Vector Direction of Equatorial Fast Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2018, 45, 7951-7959.	1.5	18
23	Wave-particle energy exchange directly observed in a kinetic Alfv–n-branch wave. <i>Nature Communications</i> , 2017, 8, 14719.	5.8	73
24	Lower hybrid frequency range waves generated by ion polarization drift due to electromagnetic ion cyclotron waves: Analysis of an event observed by the Van Allen Probe B. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 449-463.	0.8	5
25	Spacecraft and Instrument Photoelectrons Measured by the Dual Electron Spectrometers on MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,548.	0.8	39
26	Cluster observations of non–time continuous magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9701-9716.	0.8	10
27	Survey of the frequency dependent latitudinal distribution of the fast magnetosonic wave mode from Van Allen Probes Electric and Magnetic Field Instrument and Integrated Science waveform receiver plasma wave analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2902-2921.	0.8	63
28	Low–harmonic magnetosonic waves observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6230-6257.	0.8	44
29	Coherent wave activity in Mercury's magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7342-7356.	0.8	13
30	MESSENGER survey of in situ low frequency wave storms between 0.3 and 0.7–AU. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,207.	0.8	21
31	MESSENGER observations of solar energetic electrons within Mercury's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8559-8571.	0.8	16
32	MESSENGER observations of multiscale Kelvin–Helmholtz vortices at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4354-4368.	0.8	40
33	Interpreting ~1–Hz magnetic compressional waves in Mercury's inner magnetosphere in terms of propagating ion–Bernstein waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4213-4228.	0.8	21
34	Van Allen Probe observations of periodic rising frequencies of the fast magnetosonic mode. <i>Geophysical Research Letters</i> , 2014, 41, 8161-8168.	1.5	52
35	Active current sheets and candidate hot flow anomalies upstream of Mercury's bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 853-876.	0.8	22
36	Upstream ultra–low frequency waves in Mercury's foreshock region: MESSENGER magnetic field observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2809-2823.	0.8	40

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37	Terrestrial myriametric radio burst observed by IMAGE and Geotail satellites. Journal of Geophysical Research: Space Physics, 2013, 118, 1101-1111.	0.8	0
38	MESSENGER observations of magnetopause structure and dynamics at Mercury. Journal of Geophysical Research: Space Physics, 2013, 118, 997-1008.	0.8	141
39	MESSENGER observations of dipolarization events in Mercury's magnetotail. Journal of Geophysical Research, 2012, 117, .	3.3	72
40	Survey of coherent ~ 1 Hz waves in Mercury's inner magnetosphere from MESSENGER observations. Journal of Geophysical Research, 2012, 117, .	3.3	39
41	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. Journal of Geophysical Research, 2012, 117, .	3.3	86
42	MESSENGER orbital observations of large amplitude Kelvin-Helmholtz waves at Mercury's magnetopause. Journal of Geophysical Research, 2012, 117, .	3.3	69
43	Quasi-trapped ion and electron populations at Mercury. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	40
44	Kinetic-scale magnetic turbulence and finite Larmor radius effects at Mercury. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	39
45	The dayside magnetospheric boundary layer at Mercury. Planetary and Space Science, 2011, 59, 2037-2050.	0.9	33
46	Reconstruction of propagating Kelvin-Helmholtz vortices at Mercury's magnetopause. Planetary and Space Science, 2011, 59, 2051-2057.	0.9	24
47	Mercury's magnetospheric magnetic field after the first two MESSENGER flybys. Icarus, 2010, 209, 23-39.	1.1	110
48	MESSENGER Observations of Extreme Loading and Unloading of Mercury's Magnetic Tail. Science, 2010, 329, 665-668.	6.0	172
49	Observations of Kelvin-Helmholtz waves along the dusk-side boundary of Mercury's magnetosphere during MESSENGER's third flyby. Geophysical Research Letters, 2010, 37, .	1.5	50
50	Observations of ion cyclotron waves in the solar wind near 0.3 AU. Journal of Geophysical Research, 2010, 115, .	3.3	70
51	MESSENGER Observations of Magnetic Reconnection in Mercury's Magnetosphere. Science, 2009, 324, 606-610.	6.0	234
52	Comparison of ultra-low frequency waves at Mercury under northward and southward IMF. Geophysical Research Letters, 2009, 36, .	1.5	17
53	Narrowband ultra-low frequency wave observations by MESSENGER during its January 2008 flyby through Mercury's magnetosphere. Geophysical Research Letters, 2009, 36, .	1.5	26
54	MESSENGER observations of Mercury's magnetosphere during northward IMF. Geophysical Research Letters, 2009, 36, .	1.5	55

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55	Comparison of kilometric continuum latitudinal radiation patterns with linear mode conversion theory. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
56	Search for pickup ion generated Na ⁺ cyclotron waves at Mercury. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	19
57	Association of kilometric continuum radiation with plasmaspheric structures. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	28
58	Observations of the latitudinal structure of plasmaspheric convection plumes by IMAGE-RPI and EUV. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	23
59	The Radio Plasma Imager investigation on the IMAGE spacecraft. <i>Space Science Reviews</i> , 2000, 91, 319-359.	3.7	140
60	Comparison between Liouville's theorem and observed latitudinal distributions of trapped ions in the plasmopause region. <i>Journal of Geophysical Research</i> , 1994, 99, 2191.	3.3	23
61	Funnel-shaped, low-frequency equatorial waves. <i>Journal of Geophysical Research</i> , 1992, 97, 14967-14976.	3.3	142
62	Double-peaked electrostatic ion cyclotron harmonic waves. <i>Journal of Geophysical Research</i> , 1990, 95, 10591-10598.	3.3	4
63	Flow Velocity Analysis of Suprathermal Ions in the Presence of Ion Temperature Anisotropy. <i>Geophysical Monograph Series</i> , 0, , 79-84.	0.1	0