Scott A Boardsen

List of Publications by Year
in descending order

63 papers	2,359 citations	236925 25 h-index	206112 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. Astrophysical Journal Letters, 2021, 907, L45.	8.3	9
2	Observations of Density Cavities and Associated Warm Ion Flux Enhancements in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028326.	2.4	3
3	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. Geophysical Research Letters, 2021, 48, e2021GL092376.	4.0	6
4	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultraâ€low Frequency Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028912.	2.4	6
5	HAPI: An API Standard for Accessing Heliophysics Time Series Data. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	10
6	The Importance of Electron Landau Damping for the Dissipation of Turbulent Energy in Terrestrial Magnetosheath Plasma. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	15
7	When the Moon had a magnetosphere. Science Advances, 2020, 6, .	10.3	11
8	Particleâ€inâ€Cell Simulation of Risingâ€Tone Magnetosonic Waves. Geophysical Research Letters, 2020, 47, e2020GL089671.	4.0	8
9	Twoâ€Dimensional Hybrid Particleâ€inâ€Cell Simulations of Magnetosonic Waves in the Dipole Magnetic Field: On a Constant <i>L</i>â€Shell. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028414.	2.4	5
10	Local Heating of Oxygen Ions in the Presence of Magnetosonic Waves: Possible Source for the Warm Plasma Cloak?. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027210.	2.4	12
11	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027488.	2.4	12
12	Fine Harmonic Structure of Equatorial Noise with a Quasiperiodic Modulation. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027509.	2.4	4
13	Upstream Ultraâ€Low Frequency Waves Observed by MESSENGER's Magnetometer: Implications for Particle Acceleration at Mercury's Bow Shock. Geophysical Research Letters, 2020, 47, e2020GL087350.	4.0	9
14	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Lowâ€Latitude Ionosphere. Geophysical Research Letters, 2020, 47, e2019GL086315.	4.0	4
15	EMIC Waves Converted From Equatorial Noise Due to <i>M</i>/<i>Q</i> = 2 Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. Geophysical Research Letters, 2019, 46, 5662-5669.	4.0	31
16	Equatorial Propagation of the Magnetosonic Mode Across the Plasmapause: 2â€D PIC Simulations. Journal of Geophysical Research: Space Physics, 2019, 124, 4424-4444.	2.4	9
17	EMIC Waveâ€Driven Bounce Resonance Scattering of Energetic Electrons in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 2484-2496.	2.4	18
18	Energy partitioning constraints at kinetic scales in low-<i>Î²</i> turbulence. Physics of Plasmas, 2018, 25, .	1.9	25

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19	Equatorial Evolution of the Fast Magnetosonic Mode in the Source Region: Observationâ€Simulation Comparison of the Preferential Propagation Direction. Journal of Geophysical Research: Space Physics, 2018, 123, 9532-9544.	2.4	8
20	Equatorial Noise With Quasiperiodic Modulation: Multipoint Observations by the Van Allen Probes Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 4809-4819.	2.4	4
21	Particleâ€inâ€Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1â€D Along the Radial Direction. Journal of Geophysical Research: Space Physics, 2018, 123, 7424-7440.	2.4	5
22	Determining the Wave Vector Direction of Equatorial Fast Magnetosonic Waves. Geophysical Research Letters, 2018, 45, 7951-7959.	4.0	18
23	Wave-particle energy exchange directly observed in a kinetic AlfvÃ©n-branch wave. Nature Communications, 2017, 8, 14719.	12.8	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. Journal of Geophysical Research: Space Physics, 2017, 122, 449-463.	2.4	5
25	Spacecraft and Instrument Photoelectrons Measured by the Dual Electron Spectrometers on MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 11,548.	2.4	39
26	Cluster observations of nonâ€“time continuous magnetosonic waves. Journal of Geophysical Research: Space Physics, 2016, 121, 9701-9716.	2.4	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. Journal of Geophysical Research: Space Physics, 2016, 121, 2902-2921.	2.4	63
28	Lowâ€harmonic magnetosonic waves observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2015, 120, 6230-6257.	2.4	44
29	Coherent wave activity in Mercury's magnetosheath. Journal of Geophysical Research: Space Physics, 2015, 120, 7342-7356.	2.4	13
30	MESSENGER survey of in situ low frequency wave storms between 0.3 and 0.7â€‰AU. Journal of Geophysical Research: Space Physics, 2015, 120, 10,207.	2.4	21
31	MESSENGER observations of solar energetic electrons within Mercury's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8559-8571.	2.4	16
32	MESSENGER observations of multiscale Kelvinâ€Helmholtz vortices at Mercury. Journal of Geophysical Research: Space Physics, 2015, 120, 4354-4368.	2.4	40
33	Interpreting ~1â€‰Hz magnetic compressional waves in Mercury's inner magnetosphere in terms of propagating ionâ€Bernstein waves. Journal of Geophysical Research: Space Physics, 2015, 120, 4213-4228.	2.4	21
34	Van Allen Probe observations of periodic rising frequencies of the fast magnetosonic mode. Geophysical Research Letters, 2014, 41, 8161-8168.	4.0	52
35	Active current sheets and candidate hot flow anomalies upstream of Mercury's bow shock. Journal of Geophysical Research: Space Physics, 2014, 119, 853-876.	2.4	22
36	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

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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.	2.4	0
38	MESSENGER observations of magnetopause structure and dynamics at Mercury. Journal of Geophysical Research: Space Physics, 2013, 118, 997-1008.	2.4	141
39	MESSENGER observations of dipolarization events in Mercury's magnetotail. Journal of Geophysical Research, 2012, 117, .	3.3	72
40	Survey of coherent â^¼1 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 largeâ€amplitude Kelvinâ€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.	4.0	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.	1.7	33
46	Reconstruction of propagating Kelvinâ€"Helmholtz vortices at Mercury's magnetopause. Planetary and Space Science, 2011, 59, 2051-2057.	1.7	24
47	Mercuryâ€™s magnetospheric magnetic field after the first two MESSENGER flybys. Icarus, 2010, 209, 23-39.	2.5	110
48	MESSENGER Observations of Extreme Loading and Unloading of Mercuryâ€™s Magnetic Tail. Science, 2010, 329, 665-668.	12.6	172
49	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
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 Mercuryâ€™s Magnetosphere. Science, 2009, 324, 606-610.	12.6	234
52	Comparison of ultraâ€lowâ€frequency waves at Mercury under northward and southward IMF. Geophysical Research Letters, 2009, 36, .	4.0	17
53	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
54	MESSENGER observations of Mercury's magnetosphere during northward IMF. Geophysical Research Letters, 2009, 36, .	4.0	55

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55	Comparison of kilometric continuum latitudinal radiation patterns with linear mode conversion theory. Journal of Geophysical Research, 2008, 113, .	3.3	7
56	Search for pickâ€up ion generated Na⁺ cyclotron waves at Mercury. Geophysical Research Letters, 2007, 34, .	4.0	19
57	Association of kilometric continuum radiation with plasmaspheric structures. Journal of Geophysical Research, 2004, 109, .	3.3	28
58	Observations of the latitudinal structure of plasmaspheric convection plumes by IMAGE-RPI and EUV. Journal of Geophysical Research, 2003, 108, .	3.3	23
59	The Radio Plasma Imager investigation on the IMAGE spacecraft. Space Science Reviews, 2000, 91, 319-359.	8.1	140
60	Comparison between Liouville's theorem and observed latitudinal distributions of trapped ions in the plasmapause region. Journal of Geophysical Research, 1994, 99, 2191.	3.3	23
61	Funnelâ€shaped, lowâ€frequency equatorial waves. Journal of Geophysical Research, 1992, 97, 14967-14976.	3.3	142
62	Doubleâ€peaked electrostatic ion cyclotron harmonic waves. Journal of Geophysical Research, 1990, 95, 10591-10598.	3.3	4
63	Flow Velocity Analysis of Suprathermal Ions in the Presence of Ion Temperature Anisotropy. Geophysical Monograph Series, 0, , 79-84.	0.1	0