

# Scott A Boardsen

## List of Publications by Year in descending order

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Version: 2024-02-01

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	MESSENGER Observations of Magnetic Reconnection in Mercury's Magnetosphere. <i>Science</i> , 2009, 324, 606-610.	12.6	234
2	MESSENGER Observations of Extreme Loading and Unloading of Mercury's Magnetic Tail. <i>Science</i> , 2010, 329, 665-668.	12.6	172
3	Funnel-shaped, low-frequency equatorial waves. <i>Journal of Geophysical Research</i> , 1992, 97, 14967-14976.	3.3	142
4	MESSENGER observations of magnetopause structure and dynamics at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 997-1008.	2.4	141
5	The Radio Plasma Imager investigation on the IMAGE spacecraft. <i>Space Science Reviews</i> , 2000, 91, 319-359.	8.1	140
6	Mercury's magnetospheric magnetic field after the first two MESSENGER flybys. <i>Icarus</i> , 2010, 209, 23-39.	2.5	110
7	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
8	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017, 8, 14719.	12.8	73
9	MESSENGER observations of dipolarization events in Mercury's magnetotail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
10	Observations of ion cyclotron waves in the solar wind near 0.3 AU. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
11	MESSENGER orbital observations of large-amplitude Kelvin-Helmholtz waves at Mercury's magnetopause. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	69
12	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.	2.4	63
13	MESSENGER observations of Mercury's magnetosphere during northward IMF. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	55
14	Van Allen Probe observations of periodic rising frequencies of the fast magnetosonic mode. <i>Geophysical Research Letters</i> , 2014, 41, 8161-8168.	4.0	52
15	Observations of Kelvin-Helmholtz waves along the dusk-side boundary of Mercury's magnetosphere during MESSENGER's third flyby. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	50
16	Low-harmonic magnetosonic waves observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6230-6257.	2.4	44
17	Quasi-trapped ion and electron populations at Mercury. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	40
18	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.	2.4	40

#	ARTICLE	IF	CITATIONS
19	MESSENGER observations of multiscale Kelvinâ€Helmholtz vortices at Mercury. Journal of Geophysical Research: Space Physics, 2015, 120, 4354-4368.	2.4	40
20	Kinetic-scale magnetic turbulence and finite Larmor radius effects at Mercury. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	39
21	Survey of coherent $\sim 1$ Hz waves in Mercury's inner magnetosphere from MESSENGER observations. Journal of Geophysical Research, 2012, 117, .	3.3	39
22	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
23	The dayside magnetospheric boundary layer at Mercury. Planetary and Space Science, 2011, 59, 2037-2050.	1.7	33
24	EMIC Waves Converted From Equatorial Noise Due to $M/Q = 2$ Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. Geophysical Research Letters, 2019, 46, 5662-5669.	4.0	31
25	Association of kilometric continuum radiation with plasmaspheric structures. Journal of Geophysical Research, 2004, 109, .	3.3	28
26	Narrow-band ultra-low-frequency wave observations by MESSENGER during its January 2008 flyby through Mercury's magnetosphere. Geophysical Research Letters, 2009, 36, .	4.0	26
27	Energy partitioning constraints at kinetic scales in low- $\beta^2$ turbulence. Physics of Plasmas, 2018, 25, .	1.9	25
28	Reconstruction of propagating Kelvinâ€Helmholtz vortices at Mercury's magnetopause. Planetary and Space Science, 2011, 59, 2051-2057.	1.7	24
29	Comparison between Liouville's theorem and observed latitudinal distributions of trapped ions in the plasmopause region. Journal of Geophysical Research, 1994, 99, 2191.	3.3	23
30	Observations of the latitudinal structure of plasmaspheric convection plumes by IMAGE-RPI and EUV. Journal of Geophysical Research, 2003, 108, .	3.3	23
31	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
32	MESSENGER survey of in situ low frequency wave storms between 0.3 and 0.7 AU. Journal of Geophysical Research: Space Physics, 2015, 120, 10,207.	2.4	21
33	Interpreting $\sim 1$ 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	Search for pickup ion generated Na <sup>+</sup> cyclotron waves at Mercury. Geophysical Research Letters, 2007, 34, .	4.0	19
35	Determining the Wave Vector Direction of Equatorial Fast Magnetosonic Waves. Geophysical Research Letters, 2018, 45, 7951-7959.	4.0	18
36	EMIC Wave-Driven Bounce Resonance Scattering of Energetic Electrons in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 2484-2496.	2.4	18

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37	Comparison of ultra-low frequency waves at Mercury under northward and southward IMF. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	17
38	MESSENGER observations of solar energetic electrons within Mercury's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8559-8571.	2.4	16
39	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, .	2.4	15
40	Coherent wave activity in Mercury's magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7342-7356.	2.4	13
41	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.	2.4	12
42	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	2.4	12
43	When the Moon had a magnetosphere. <i>Science Advances</i> , 2020, 6, .	10.3	11
44	Cluster observations of non-time continuous magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9701-9716.	2.4	10
45	HAPI: An API Standard for Accessing Heliophysics Time Series Data. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	10
46	Equatorial Propagation of the Magnetosonic Mode Across the Plasmopause: 2D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4424-4444.	2.4	9
47	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.	4.0	9
48	Magnetospheres of Terrestrial Exoplanets and Exomoons: Implications for Habitability and Detection. <i>Astrophysical Journal Letters</i> , 2021, 907, L45.	8.3	9
49	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.	2.4	8
50	Particle-in-Cell Simulation of Rising-Tone Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089671.	4.0	8
51	Comparison of kilometric continuum latitudinal radiation patterns with linear mode conversion theory. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
52	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.	4.0	6
53	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.	2.4	6
54	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.	2.4	5

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55	Particle-in-Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1D Along the Radial Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7424-7440.	2.4	5
56	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.	2.4	5
57	Double-peaked electrostatic ion cyclotron harmonic waves. <i>Journal of Geophysical Research</i> , 1990, 95, 10591-10598.	3.3	4
58	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.	2.4	4
59	Fine Harmonic Structure of Equatorial Noise with a Quasiperiodic Modulation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027509.	2.4	4
60	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Low-Latitude Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086315.	4.0	4
61	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.	2.4	3
62	Terrestrial myriametric radio burst observed by IMAGE and Geotail satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1101-1111.	2.4	0
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