

# S M Imber

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,420  
citations

304743

22  
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330143

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41  
all docs

41  
docs citations

41  
times ranked

1131  
citing authors

#	ARTICLE	IF	CITATIONS
1	MESSENGER X-Ray Observations of Electron Precipitation on the Dayside of Mercury. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8
2	Transpolar Arcs: Seasonal Dependence Identified by an Automated Detection Algorithm. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
3	An Improved Estimation of SuperDARN Heppner-Maynard Boundaries Using AMPERE Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027218.	2.4	9
4	Dual-Lobe Reconnection and Horse-Collar Auroras. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028567.	2.4	21
5	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	71
6	Flux Transfer Event Showers at Mercury: Dependence on Plasma $\beta$ and Magnetic Shear and Their Contribution to the Dungey Cycle. Geophysical Research Letters, 2020, 47, e2020GL089784.	4.0	23
7	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. Space Science Reviews, 2020, 216, 1.	8.1	36
8	Do Statistical Models Capture the Dynamics of the Magnetopause During Sudden Magnetospheric Compressions?. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027289.	2.4	26
9	A Machine Learning Approach to Classifying MESSENGER FIPS Proton Spectra. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027352.	2.4	2
10	MESSENGER Observations of Disappearing Dayside Magnetosphere Events at Mercury. Journal of Geophysical Research: Space Physics, 2019, 124, 6613-6635.	2.4	53
11	Field Line Resonance in the Hermean Magnetosphere: Structure and Implications for Plasma Distribution. Journal of Geophysical Research: Space Physics, 2019, 124, 211-228.	2.4	16
12	Transport of Mass and Energy in Mercury's Plasma Sheet. Geophysical Research Letters, 2018, 45, 12,163.	4.0	14
13	Mercury's Dynamic Magnetosphere. , 2018, , 461-496.		8
14	Mercury's cross-tail current sheet: Structure, X-line location and stress balance. Geophysical Research Letters, 2017, 44, 678-686.	4.0	53
15	MESSENGER Observations of Magnetotail Loading and Unloading: Implications for Substorms at Mercury. Journal of Geophysical Research: Space Physics, 2017, 122, 11,402.	2.4	38
16	Interplanetary magnetic field properties and variability near Mercury's orbit. Journal of Geophysical Research: Space Physics, 2017, 122, 7907-7924.	2.4	39
17	Coronal and heliospheric magnetic flux circulation and its relation to open solar flux evolution. Journal of Geophysical Research: Space Physics, 2017, 122, 5870-5894.	2.4	10
18	Coupling between Mercury and its nightside magnetosphere: Cross-tail current sheet asymmetry and substorm current wedge formation. Journal of Geophysical Research: Space Physics, 2017, 122, 8419-8433.	2.4	29

#	ARTICLE	IF	CITATIONS
19	The Influence of IMF Clock Angle on Dayside Flux Transfer Events at Mercury. <i>Geophysical Research Letters</i> , 2017, 44, 10,829.	4.0	9
20	Mars plasma system response to solar wind disturbances during solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6611-6634.	2.4	24
21	MESSENGER observations of cusp plasma filaments at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8260-8285.	2.4	29
22	A statistical survey of ultralow-frequency wave power and polarization in the Hermean magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8755-8772.	2.4	11
23	What controls the local time extent of flux transfer events?. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1391-1401.	2.4	21
24	Modulation of the substorm current wedge by bursty bulk flows: 8 September 2002 Revisited. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4466-4482.	2.4	14
25	MESSENGER observations of magnetospheric substorm activity in Mercury's near magnetotail. <i>Geophysical Research Letters</i> , 2015, 42, 3692-3699.	4.0	50
26	Azimuthal velocity shear within an Earthward fast flow – further evidence for magnetotail untwisting?. <i>Annales Geophysicae</i> , 2015, 33, 245-255.	1.6	18
27	MESSENGER observations of flux ropes in Mercury's magnetotail. <i>Planetary and Space Science</i> , 2015, 115, 77-89.	1.7	71
28	MESSENGER observations of large dayside flux transfer events: Do they drive Mercury's substorm cycle?. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5613-5623.	2.4	54
29	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8087-8116.	2.4	125
30	Solar cycle variations in polar cap area measured by the superDARN radars. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6188-6196.	2.4	15
31	The Heppner-Maynard Boundary measured by SuperDARN as a proxy for the latitude of the auroral oval. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 685-697.	2.4	28
32	MESSENGER observations of a flux transfer event shower at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
33	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
34	A quantitative deconstruction of the morphology of high-latitude ionospheric convection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
35	A THEMIS survey of flux ropes and traveling compression regions: Location of the near-Earth reconnection site during solar minimum. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	91
36	A superposed epoch analysis of auroral evolution during substorm growth, onset and recovery: open magnetic flux control of substorm intensity. <i>Annales Geophysicae</i> , 2009, 27, 659-668.	1.6	72

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37	Excitation thresholds of field-aligned irregularities and associated ionospheric hysteresis at very high latitudes observed using SPEAR-induced HF radar backscatter. <i>Annales Geophysicae</i> , 2009, 27, 2623-2631.	1.6	6
38	Comment on "Jupiter: A fundamentally different magnetospheric interaction with the solar wind" by D.J. McComas and F. Bagenal. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	46
39	Observations of significant flux closure by dual lobe reconnection. <i>Annales Geophysicae</i> , 2007, 25, 1617-1627.	1.6	24
40	The auroral and ionospheric flow signatures of dual lobe reconnection. <i>Annales Geophysicae</i> , 2006, 24, 3115-3129.	1.6	59