

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
h-index

330143

37
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41
all docs

41
docs citations

41
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
4	MESSENGER observations of a flux transfer event shower at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
5	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
6	MESSENGER observations of flux ropes in Mercury's magnetotail. <i>Planetary and Space Science</i> , 2015, 115, 77-89.	1.7	71
7	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	71
8	The auroral and ionospheric flow signatures of dual lobe reconnection. <i>Annales Geophysicae</i> , 2006, 24, 3115-3129.	1.6	59
9	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
10	Mercury's cross-tail current sheet: Structure, location and stress balance. <i>Geophysical Research Letters</i> , 2017, 44, 678-686.	4.0	53
11	MESSENGER Observations of Disappearing Dayside Magnetosphere Events at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6613-6635.	2.4	53
12	MESSENGER observations of magnetospheric substorm activity in Mercury's near magnetotail. <i>Geophysical Research Letters</i> , 2015, 42, 3692-3699.	4.0	50
13	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
14	Interplanetary magnetic field properties and variability near Mercury's orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7907-7924.	2.4	39
15	MESSENGER Observations of Magnetotail Loading and Unloading: Implications for Substorms at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,402.	2.4	38
16	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	36
17	MESSENGER observations of cusp plasma filaments at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8260-8285.	2.4	29
18	Coupling between Mercury and its nightside magnetosphere: Cross-tail current sheet asymmetry and substorm current wedge formation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8419-8433.	2.4	29

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19	The Heppnerâ€Maynard Boundary measured by SuperDARN as a proxy for the latitude of the auroral oval. Journal of Geophysical Research: Space Physics, 2013, 118, 685-697.	2.4	28
20	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
21	Observations of significant flux closure by dual lobe reconnection. Annales Geophysicae, 2007, 25, 1617-1627.	1.6	24
22	Mars plasma system response to solar wind disturbances during solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 6611-6634.	2.4	24
23	Flux Transfer Event Showers at Mercury: Dependence on Plasma β and Magnetic Shear and Their Contribution to the Dungey Cycle. Geophysical Research Letters, 2020, 47, e2020GL089784.	4.0	23
24	What controls the local time extent of flux transfer events?. Journal of Geophysical Research: Space Physics, 2016, 121, 1391-1401.	2.4	21
25	Dualâ€Lobe Reconnection and Horseâ€Collar Auroras. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028567.	2.4	21
26	Azimuthal velocity shear within an Earthward fast flow â€ further evidence for magnetotail untwisting?. Annales Geophysicae, 2015, 33, 245-255.	1.6	18
27	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
28	Solar cycle variations in polar cap area measured by the superDARN radars. Journal of Geophysical Research: Space Physics, 2013, 118, 6188-6196.	2.4	15
29	Modulation of the substorm current wedge by bursty bulk flows: 8 September 2002â€Revisited. Journal of Geophysical Research: Space Physics, 2016, 121, 4466-4482.	2.4	14
30	Transport of Mass and Energy in Mercury's Plasma Sheet. Geophysical Research Letters, 2018, 45, 12,163.	4.0	14
31	A statistical survey of ultralowâ€frequency wave power and polarization in the Hermean magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 8755-8772.	2.4	11
32	A quantitative deconstruction of the morphology of highâ€latitude ionospheric convection. Journal of Geophysical Research, 2012, 117, .	3.3	10
33	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
34	The Influence of IMF Clock Angle on Dayside Flux Transfer Events at Mercury. Geophysical Research Letters, 2017, 44, 10,829.	4.0	9
35	An Improved Estimation of SuperDARN Heppnerâ€Maynard Boundaries Using AMPERE Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027218.	2.4	9
36	Mercuryâ€™s Dynamic Magnetosphere. , 2018, , 461-496.		8

#	ARTICLE	IF	CITATIONS
37	MESSENGER X-Ray Observations of Electron Precipitation on the Dayside of Mercury. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8
38	Excitation thresholds of field-aligned irregularities and associated ionospheric hysteresis at very high latitudes observed using SPEAR-induced HF radar backscatter. Annales Geophysicae, 2009, 27, 2623-2631.	1.6	6
39	A Machine Learning Approach to Classifying MESSENGER FIPS Proton Spectra. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027352.	2.4	2
40	Transpolar Arcs: Seasonal Dependence Identified by an Automated Detection Algorithm. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2