Steven Petrinec

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2552399/publications.pdf

Version: 2024-02-01

		186265]	138484
82	3,486	28		58
papers	citations	h-index		g-index
87	87	87		1833
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Determining the Nearâ€Instantaneous Curvature of Earth's Bow Shock Using Simultaneous IBEX and MMS Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
2	Multiple Reconnection Xâ€Lines at the Magnetopause and Overlapping Cusp Ion Injections. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
3	On the Occurrence of Magnetic Reconnection Along the Terrestrial Magnetopause, Using Magnetospheric Multiscale (MMS) Observations in Proximity to the Reconnection Site. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	3
4	Highâ€Density Magnetospheric He ⁺ at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	3
5	Fieldâ€Aligned Currents in Auroral Vortices. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028583.	2.4	15
6	The Location of Magnetic Reconnection at Earth's Magnetopause. Space Science Reviews, 2021, 217, 41.	8.1	24
7	Long and Active Magnetopause Reconnection Xâ€Lines During Changing IMF Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028926.	2.4	8
8	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. Astrophysical Journal, 2021, 914, 26.	4. 5	6
9	Probing the Magnetosheath Boundaries Using Interstellar Boundary Explorer (IBEX) Orbital Encounters. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029278.	2.4	4
10	TRICE 2 Observations of Lowâ€Energy Magnetospheric Ions Within the Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029382.	2.4	4
11	Reconnection Xâ€Line Orientations at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029789.	2.4	6
12	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. Geophysical Research Letters, 2020, 47, e2020GL087268.	4.0	8
13	First Global Images of Ion Energization in the Terrestrial Foreshock by the Interstellar Boundary Explorer. Geophysical Research Letters, 2020, 47, e2020GL088188.	4.0	4
14	The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027617.	2.4	7
15	Neutral Atom Imaging of the Solar Windâ€Magnetosphereâ€Exosphere Interaction Near the Subsolar Magnetopause. Geophysical Research Letters, 2020, 47, e2020GL089362.	4.0	14
16	Suppression of Magnetic Reconnection at Saturn's Lowâ€Latitude Magnetopause. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027895.	2.4	11
17	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027778.	2.4	8
18	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Eventâ€Like Structures at the Earth's Magnetopause. Geophysical Research Letters, 2020, 47, e2019GL086726.	4.0	20

#	Article	IF	CITATIONS
19	Sequential Observations of Flux Transfer Events, Polewardâ€Moving Auroral Forms, and Polar Cap Patches. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027674.	2.4	12
20	Cusp and Nightside Auroral Sources of O ⁺ in the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10036-10047.	2.4	10
21	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6204-6213.	4.0	21
22	Stationarity of the Reconnection Xâ€Line at Earth's Magnetopause for Southward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 8524-8534.	2.4	14
23	An Investigation of Flow Shear and Diamagnetic Drift Effects on Magnetic Reconnection at Saturn's Dawnside Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 8457-8473.	2.4	11
24	Highâ€density O ⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 10257-10269.	2.4	14
25	The He ⁺⁺ H ⁺ Density Ratio Across Earth's Subsolar Magnetopause and Its Implications for the Presence of a Massâ€Dependent Reflection Coefficient. Journal of Geophysical Research: Space Physics, 2019, 124, 9893-9903.	2.4	3
26	Effects in the Nearâ€Magnetopause Magnetosheath Elicited by Largeâ€Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. Journal of Geophysical Research: Space Physics, 2018, 123, 8983-9004.	2.4	3
27	The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 10,177.	2.4	12
28	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
29	Nonlobe Reconnection at the Earth's Magnetopause for Northward IMF. Journal of Geophysical Research: Space Physics, 2018, 123, 8275-8291.	2.4	8
30	Observational Evidence of Largeâ€Scale Multiple Reconnection at the Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 8407-8421.	2.4	21
31	Nowcasting and forecasting of the magnetopause and bow shock—A status update. Space Weather, 2017, 15, 36-43.	3.7	5
32	On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. Journal of Geophysical Research: Space Physics, 2017, 122, 605-617.	2.4	13
33	Largeâ€scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	2.4	48
34	Occurrence frequency and location of magnetic islands at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 4138-4155.	2.4	19
35	Magnetospheric Ion Evolution Across the Lowâ€Latitude Boundary Layer Separatrix. Journal of Geophysical Research: Space Physics, 2017, 122, 10,247.	2.4	18
36	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. Journal of Geophysical Research: Space Physics, 2017, 122, 11,991.	2.4	26

#	Article	IF	CITATIONS
37	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Subâ€Alfvénic Flow. Journal of Geophysical Research: Space Physics, 2017, 122, 9934-9951.	2.4	3
38	Magnetospheric ion influence at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 8617-8631.	2.4	32
39	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
40	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 1435-1442.	4.0	42
41	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. Geophysical Research Letters, 2016, 43, 4673-4682.	4.0	21
42	Stable reconnection at the dusk flank magnetopause. Geophysical Research Letters, 2016, 43, 9374-9382.	4.0	7
43	Force balance at the magnetopause determined with MMS: Application to flux transfer events. Geophysical Research Letters, 2016, 43, 11,941.	4.0	27
44	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. Geophysical Research Letters, 2016, 43, 5997-6004.	4.0	19
45	Magnetospheric Multiscale Science Mission Profile and Operations. Space Science Reviews, 2016, 199, 77-103.	8.1	138
46	Distinguishing between pulsed and continuous reconnection at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 1684-1696.	2.4	13
47	Imaging the development of the cold dense plasma sheet. Geophysical Research Letters, 2015, 42, 7867-7873.	4.0	15
48	lon acceleration dependence on magnetic shear angle in dayside magnetopause reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 7255-7269.	2.4	21
49	Shape of the terrestrial plasma sheet in the nearâ€Earth magnetospheric tail as imaged by the Interstellar Boundary Explorer. Geophysical Research Letters, 2015, 42, 2115-2122.	4.0	14
50	Magnetic field topology for northward IMF reconnection: Ion observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9051-9071.	2.4	32
51	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. Astrophysical Journal, 2014, 784, 89.	4.5	53
52	The location of magnetic reconnection at Saturn's magnetopause: A comparison with Earth. Journal of Geophysical Research: Space Physics, 2014, 119, 2563-2578.	2.4	53
53	The steepness of the magnetic shear angle "saddle― A parameter for constraining the location of dayside magnetic reconnection?. Journal of Geophysical Research: Space Physics, 2014, 119, 8404-8414.	2.4	13
54	Long Term Variations in the Solar Wind of Importance to ULF Phenomena. Geophysical Monograph Series, 2013, , 67-74.	0.1	3

#	Article	IF	Citations
55	Dayside magnetic topology at the Earth's magnetopause for northward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	36
56	The location of reconnection at the magnetopause: Testing the maximum magnetic shear model with THEMIS observations. Journal of Geophysical Research, $2012,117,.$	3.3	75
57	Evidence of multiple reconnection lines at the magnetopause from cusp observations. Journal of Geophysical Research, 2012, 117, .	3.3	25
58	A probability assessment of encountering dayside magnetopause diffusion regions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
59	First IBEX observations of the terrestrial plasma sheet and a possible disconnection event. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38
60	Neutral atom imaging of the magnetospheric cusps. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
61	Antiparallel and component reconnection at the dayside magnetopause. Journal of Geophysical Research, 2011, 116, n/a - n/a .	3.3	71
62	Energetic neutral atoms from the Earth's subsolar magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	66
63	The reconnection site of temporal cusp structures. Journal of Geophysical Research, 2008, 113, .	3.3	16
64	Location of the reconnection line at the magnetopause during southward IMF conditions. Geophysical Research Letters, 2007, 34, .	4.0	78
65	Simultaneous observations of fluctuating cusp aurora and lowâ \in latitude magnetopause reconnection. Journal of Geophysical Research, 2007, 112, .	3.3	7
66	Probing the boundary between antiparallel and component reconnection during southward interplanetary magnetic field conditions. Journal of Geophysical Research, 2007, 112, .	3.3	139
67	Reconnection sites of spatial cusp structures. Journal of Geophysical Research, 2005, 110, .	3.3	46
68	Computing the reconnection rate at the Earth's magnetopause using two spacecraft observations. Journal of Geophysical Research, 2005, 110 , .	3.3	35
69	On the solar wind control of cusp aurora during northward IMF. Geophysical Research Letters, 2004, 31, .	4.0	23
70	Location of the reconnection line for northward interplanetary magnetic field. Journal of Geophysical Research, 2004, 109, .	3.3	56
71	On continuous versus discontinuous neutral lines at the dayside magnetopause for southward interplanetary magnetic field. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	20
72	Simultaneous Cluster and IMAGE observations of cusp reconnection and auroral proton spot for northward IMF. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	130

STEVEN PETRINEC

#	Article	IF	CITATION
73	Steady reconnection during intervals of northward IMF: Implications for magnetosheath properties. Journal of Geophysical Research, 2003, 108, .	3.3	25
74	Stability of the high-latitude reconnection site for steady northward IMF. Geophysical Research Letters, 2000, 27, 473-476.	4.0	97
75	The effect of foreshock on the motion of the dayside magnetopause. Geophysical Research Letters, 1997, 24, 1439-1441.	4.0	28
76	HYDRODYNAMIC AND MHD EQUATIONS ACROSS THE BOW SHOCK AND ALONG THE SURFACES OF PLANETARY OBSTACLES. Space Science Reviews, 1997, 79, 757-791.	8.1	103
77	Near-Earth magnetotail shape and size as determined from the magnetopause flaring angle. Journal of Geophysical Research, 1996, 101, 137-152.	3.3	231
78	External and internal influences on the size of the dayside terrestrial magnetosphere. Geophysical Research Letters, 1993, 20, 339-342.	4.0	69
79	An empirical model of the size and shape of the nearâ€Earth magnetotail. Geophysical Research Letters, 1993, 20, 2695-2698.	4.0	70
80	On the relative intercalibration of solar wind instruments on IMPâ€8 and ISEEâ€3. Geophysical Research Letters, 1992, 19, 961-963.	4.0	10
81	The effect of solar wind dynamic pressure changes on low and midâ€latitude magnetic records. Geophysical Research Letters, 1992, 19, 1227-1230.	4.0	95
82	The thickness of the magnetosheath: Constraints on the polytropic index. Geophysical Research Letters, 1991, 18, 1821-1824.	4.0	154