

# Thomas S Sotirelis

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,674  
citations

185998

28  
h-index

182168

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1926  
citing authors

#	ARTICLE	IF	CITATIONS
1	A nearly universal solar wind-magnetosphere coupling function inferred from 10 magnetospheric state variables. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	499
2	Diffuse, monoenergetic, and broadband aurora: The global precipitation budget. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	372
3	Seasonal variations in diffuse, monoenergetic, and broadband aurora. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	155
4	Pairs of solar wind-magnetosphere coupling functions: Combining a merging term with a viscous term works best. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
5	The role of small-scale ion injections in the buildup of Earth's ring current pressure: Van Allen Probes observations of the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7327-7342.	0.8	91
6	OVATION Prime-2013: Extension of auroral precipitation model to higher disturbance levels. <i>Space Weather</i> , 2014, 12, 368-379.	1.3	82
7	An empirical model of the high-latitude magnetopause. <i>Journal of Geophysical Research</i> , 2000, 105, 23193-23219.	3.3	79
8	Ground-based optical determination of the b <sub>2i</sub> boundary: A basis for an optical MT-index. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	71
9	Boundary-oriented electron precipitation model. <i>Journal of Geophysical Research</i> , 2000, 105, 18655-18673.	3.3	66
10	Magnetopause from pressure balance. <i>Journal of Geophysical Research</i> , 1999, 104, 6889-6898.	3.3	58
11	Statistical relationship between large-scale upward field-aligned currents and electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6715-6731.	0.8	58
12	OVATION: Oval variation, assessment, tracking, intensity, and online nowcasting. <i>Annales Geophysicae</i> , 2002, 20, 1039-1047.	0.6	54
13	Substorm cycle dependence of various types of aurora. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
14	Ultraviolet insolation drives seasonal and diurnal space weather variations. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 15-1.	3.3	51
15	On the use of IMAGE FLUV for estimating the latitude of the open/closed magnetic field line boundary in the ionosphere. <i>Annales Geophysicae</i> , 2008, 26, 2759-2769.	0.6	48
16	Auroral boundary correlations between UVI and DMSP. <i>Journal of Geophysical Research</i> , 2003, 108, SIA 2-1.	3.3	45
17	Auroral precipitation power during substorms: A Polar UV Imager-based superposed epoch analysis. <i>Journal of Geophysical Research</i> , 2001, 106, 28885-28896.	3.3	44
18	Cusp latitude and the optimal solar wind coupling function. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	43

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19	Comparison of TWINS images of low-altitude emission of energetic neutral atoms with DMSP precipitating ion fluxes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
20	Shape of the open-closed boundary of the polar cap as determined from observations of precipitating particles by up to four DMSP satellites. <i>Journal of Geophysical Research</i> , 1998, 103, 399-406.	3.3	42
21	Polar Ultraviolet Imager observations of global auroral power as a function of polar cap size and magnetotail stretching. <i>Journal of Geophysical Research</i> , 2001, 106, 5895-5905.	3.3	41
22	A statistical comparison of SuperDARN spectral width boundaries and DMSP particle precipitation boundaries in the morning sector ionosphere. <i>Annales Geophysicae</i> , 2005, 23, 733-743.	0.6	40
23	Estimating the location of the open-closed magnetic field line boundary from auroral images. <i>Annales Geophysicae</i> , 2010, 28, 1659-1678.	0.6	34
24	Empirical relationship between electron precipitation and far-ultraviolet auroral emissions from DMSP observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1203-1209.	0.8	33
25	Polar rain as a diagnostic of recent rapid dayside merging. <i>Journal of Geophysical Research</i> , 1997, 102, 7151-7157.	3.3	32
26	Source region of 1500 MLT auroral bright spots: Simultaneous Polar UV-images and DMSP particle data. <i>Journal of Geophysical Research</i> , 1999, 104, 24587-24602.	3.3	32
27	Substorm probabilities are best predicted from solar wind speed. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 146, 28-37.	0.6	32
28	Predictive ability of four auroral precipitation models as evaluated using Polar UVI global images. <i>Space Weather</i> , 2010, 8, n/a-n/a.	1.3	29
29	Comparison of SuperDARN radar boundaries with DMSP particle precipitation boundaries. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
30	Ion aurora and its seasonal variations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	27
31	Magnetospheric plasma regimes identified using Geotail measurements: 2. Statistics, spatial distribution, and geomagnetic dependence. <i>Journal of Geophysical Research</i> , 1998, 103, 23521-23542.	3.3	24
32	A statistical comparison of SuperDARN spectral width boundaries and DMSP particle precipitation boundaries in the nightside ionosphere. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	24
33	Global auroral response to negative pressure impulses. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	20
34	Solar filament impact on 21 January 2005: Geospace consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5401-5448.	0.8	20
35	A statistical comparison of SuperDARN spectral width boundaries and DMSP particle precipitation boundaries in the afternoon sector ionosphere. <i>Annales Geophysicae</i> , 2005, 23, 3645-3654.	0.6	17
36	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10891-10909.	0.8	17

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37	Substorm Occurrence and Intensity Associated With Three Types of Solar Wind Structure. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 485-496.	0.8	15
38	Method for confining the magnetic field of the cross-tail current inside the magnetopause. <i>Journal of Geophysical Research</i> , 1994, 99, 19393.	3.3	14
39	$O(\pm 2)$ mass contributions to the $H$ dibaryon in a truncated bag model. <i>Physical Review D</i> , 1992, 46, 354-363.	1.6	13
40	Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF. <i>Annales Geophysicae</i> , 2008, 26, 3955-3966.	0.6	12
41	Correlation of LBH intensities with precipitating particle energies. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	11
42	The accuracy of using the spectral width boundary measured in off-meridional SuperDARN HF radar beams as a proxy for the open-closed field line boundary. <i>Annales Geophysicae</i> , 2005, 23, 2599-2604.	0.6	11
43	DMSP observations of high latitude Poynting flux during magnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 164, 294-307.	0.6	11
44	Dawn and dusk sector comparisons of small-scale irregularities, convection, and particle precipitation in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 1-1.	3.3	10
45	The shape and field of the magnetopause as determined from pressure balance. <i>Journal of Geophysical Research</i> , 1996, 101, 15255-15264.	3.3	9
46	Disappearance of large-scale field-aligned current systems: Implications for the solar wind-magnetosphere coupling. <i>Geophysical Monograph Series</i> , 2000, , 253-259.	0.1	9
47	Statistical study of polar negative magnetic bays driven by interplanetary fast-mode shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7463-7472.	0.8	9
48	North-South Asymmetry in the Geographic Location of Auroral Substorms correlated with Ionospheric Effects. <i>Scientific Reports</i> , 2018, 8, 17230.	1.6	9
49	Control of the East-West Component of the Interplanetary Magnetic Field on the Occurrence of Magnetic Substorms. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087406.	1.5	9
50	Low-altitude signatures of magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1999, 104, 17311-17321.	3.3	8
51	Statistical analysis of the observations of the MEX/ASPERA-3 NPI in the shadow. <i>Planetary and Space Science</i> , 2009, 57, 1000-1007.	0.9	7
52	Response of northern winter polar cap to auroral substorms. <i>Geophysical Research Letters</i> , 2016, 43, 4098-4105.	1.5	5
53	Testing the expanding-contracting polar cap paradigm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7077-7086.	0.8	5
54	A Residual Source of Energetic Neutral Atoms Across the Sky Obtained by the Neutral Particle Detector on board Venus Express. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
55	Evolution of auroral acceleration types inferred from twoâ€satellite coincidences. Journal of Geophysical Research, 2012, 117, .	3.3	3
56	Reply to comment on â€Empirical relationship between electron precipitation and farâ€ultraviolet auroral emissions from DMSP observationsâ€• Journal of Geophysical Research: Space Physics, 2013, 118, 6827-6828.	0.8	1
57	Future Spacecraft Missions for Planetary Defense Preparation. , 2021, 53, .		1
58	Quark self-energy in a truncated bag model: Study of high-order effects in perturbative QCD. Physical Review D, 1993, 47, 4102-4113.	1.6	0
59	Wave-Particle Interactions in Earth's Inner Magnetosphere: Experimental Results from BARREL. , 2019, , .		0
60	Technology Development for Planetary Defense In Situ Spacecraft Missions to Near-Earth Objects. , 2021, 53, .		0
61	Research and Analysis for Planetary Defense In Situ Spacecraft Missions to Near-Earth Objects. , 2021, 53, .		0
62	Electron Microburst Precipitation in Earthâ€™s Magnetosphere. , 2021, , .		0
63	Radiation Belt Electron Precipitation: Recent BARREL Observations and Future Missions. , 2021, , .		0