## Simon Wing

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2079982/publications.pdf Version: 2024-02-01



SIMON WINC

#	Article	IF	CITATIONS
1	A new magnetic coordinate system for conjugate studies at high latitudes. Journal of Geophysical Research, 1989, 94, 9139-9143.	3.3	584
2	Diffuse, monoenergetic, and broadband aurora: The global precipitation budget. Journal of Geophysical Research, 2009, 114, .	3.3	372
3	Seasonal variations in diffuse, monoenergetic, and broadband aurora. Journal of Geophysical Research, 2010, 115, .	3.3	155
4	Central plasma sheet ion properties as inferred from ionospheric observations. Journal of Geophysical Research, 1998, 103, 6785-6800.	3.3	154
5	The auroral oval position, structure, and intensity of precipitation from 1984 onward: An automated onâ€line data base. Journal of Geophysical Research, 1991, 96, 5877-5882.	3.3	142
6	Dawn-dusk asymmetries, ion spectra, and sources in the northward interplanetary magnetic field plasma sheet. Journal of Geophysical Research, 2005, 110, .	3.3	118
7	Kp forecast models. Journal of Geophysical Research, 2005, 110, .	3.3	109
8	Characterizing the state of the magnetosphere: Testing the ion precipitation maxima latitude (b2i) and the ion isotropy boundary. Journal of Geophysical Research, 1998, 103, 4739-4745.	3.3	100
9	Double cusp: Model prediction and observational verification. Journal of Geophysical Research, 2001, 106, 25571-25593.	3.3	100
10	Kelvin Helmholtz Instability in Planetary Magnetospheres. Space Science Reviews, 2014, 184, 1-31.	8.1	90
11	2D plasma sheet ion density and temperature profiles for northward and southward IMF. Geophysical Research Letters, 2002, 29, 21-1-21-4.	4.0	83
12	Magnetic dipolarization with substorm expansion onset. Journal of Geophysical Research, 2002, 107, SMP 23-1.	3.3	82
13	Global cooling and densification of the plasma sheet during an extended period of purely northward IMF on October 22-24, 2003. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	82
14	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. Space Science Reviews, 2014, 184, 33-86.	8.1	82
15	Information theoretical approach to discovering solar wind drivers of the outer radiation belt. Journal of Geophysical Research: Space Physics, 2016, 121, 9378-9399.	2.4	79
16	Effects of interplanetary magnetic fieldzcomponent and the solar wind dynamic pressure on the geosynchronous magnetic field. Journal of Geophysical Research, 1997, 102, 7207-7216.	3.3	73
17	Dawn–dusk asymmetries in the coupled solar wind–magnetosphere–ionosphere system: a review. Annales Geophysicae, 2014, 32, 705-737.	1.6	67
18	A large statistical study of the entry of interplanetary magnetic field Y-component into the magnetosphere. Geophysical Research Letters, 1995, 22, 2083-2086.	4.0	65

#	Article	IF	CITATIONS
19	Dayside fieldâ $\in$ aligned current source regions. Journal of Geophysical Research, 2010, 115, .	3.3	65
20	Transformation of high-latitude ionosphericFregion patches into blobs during the March 21, 1990, storm. Journal of Geophysical Research, 2000, 105, 5215-5230.	3.3	62
21	Auroral particle precipitation characterized by the substorm cycle. Journal of Geophysical Research: Space Physics, 2013, 118, 1022-1039.	2.4	59
22	Relation to solar activity of intense aurorae in sunlight and darkness. Nature, 1998, 393, 342-344.	27.8	56
23	Quiet time plasma sheet ion pressure contribution to Birkeland currents. Journal of Geophysical Research, 2000, 105, 7793-7802.	3.3	56
24	Substorm cycle dependence of various types of aurora. Journal of Geophysical Research, 2010, 115, .	3.3	53
25	Temporal and spatial dynamics of the regions 1 and 2 Birkeland currents during substorms. Journal of Geophysical Research: Space Physics, 2013, 118, 3007-3016.	2.4	52
26	Modeling the entry of magnetosheath electrons into the dayside ionosphere. Journal of Geophysical Research, 1996, 101, 13155-13167.	3.3	50
27	Imaging Plasma Density Structures in the Soft X-Rays Generated by Solar Wind Charge Exchange with Neutrals. Space Science Reviews, 2018, 214, 1.	8.1	47
28	A solar cycle dependence of nonlinearity in magnetospheric activity. Journal of Geophysical Research, 2005, 110, .	3.3	44
29	Northward interplanetary magnetic field plasma sheet entropies. Journal of Geophysical Research, 2009, 114, .	3.3	44
30	Timescale for the formation of the cold-dense plasma sheet: A case study. Geophysical Research Letters, 2006, 33, .	4.0	41
31	Geosynchronous magnetic field temporal response to solar wind and IMF variations. Journal of Geophysical Research, 2002, 107, SMP 32-1-SMP 32-10.	3.3	39
32	Probabilistic forecasting of the disturbance storm time index: An autoregressive Gaussian process approach. Space Weather, 2017, 15, 1004-1019.	3.7	39
33	Dependence of premidnight fieldâ€aligned currents and particle precipitation on solar illumination. Journal of Geophysical Research, 2009, 114, .	3.3	37
34	Locations of nightâ€side precipitation boundaries relative to R2 and R1 currents. Journal of Geophysical Research, 2010, 115, .	3.3	36
35	Formation and transport of entropy structures in the magnetotail simulated with a 3â€D global hybrid code. Geophysical Research Letters, 2017, 44, 5892-5899.	4.0	35
36	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 5461-5481.	2.4	34

#	Article	IF	CITATIONS
37	Substorm probabilities are best predicted from solar wind speed. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 146, 28-37.	1.6	32
38	Applications of Information Theory in Solar and Space Physics. Entropy, 2019, 21, 140.	2.2	31
39	Forecasting relativistic electron flux using dynamic multiple regression models. Annales Geophysicae, 2011, 29, 415-420.	1.6	30
40	External versus internal triggering of substorms: An informationâ€ŧheoretical approach. Geophysical Research Letters, 2014, 41, 5748-5754.	4.0	30
41	Predictive ability of four auroral precipitation models as evaluated using Polar UVI global images. Space Weather, 2010, 8, n/a-n/a.	3.7	29
42	The dependence of the strength and thickness of fieldâ€aligned currents on solar wind and ionospheric parameters. Journal of Geophysical Research: Space Physics, 2015, 120, 3987-4008.	2.4	29
43	Ion aurora and its seasonal variations. Journal of Geophysical Research, 2005, 110, .	3.3	27
44	Communityâ€wide validation of geospace model local Kâ€index predictions to support model transition to operations. Space Weather, 2016, 14, 469-480.	3.7	27
45	Nightside detached auroras due to precipitating protons/ions during intense magnetic storms. Journal of Geophysical Research, 2005, 110, .	3.3	24
46	Substorm entropies. Journal of Geophysical Research, 2009, 114, .	3.3	24
47	Using solar wind data to predict daily GPS scintillation occurrence in the African and Asian Iowâ€latitude regions. Geophysical Research Letters, 2014, 41, 8176-8184.	4.0	24
48	Substorm plasma sheet ion pressure profiles. Geophysical Research Letters, 2007, 34, .	4.0	23
49	Can Enhanced Flux Loading by Highâ€Speed Jets Lead to a Substorm? Multipoint Detection of the Christmas Day Substorm Onset at 08:17 UT, 2015. Journal of Geophysical Research: Space Physics, 2019, 124, 4314-4340.	2.4	23
50	Solar cycle dependence of nightside fieldâ€aligned currents: Effects of dayside ionospheric conductivity on the solar windâ€magnetosphereâ€ionosphere coupling. Journal of Geophysical Research: Space Physics, 2014, 119, 322-334.	2.4	22
51	Information Theoretic Approach to Discovering Causalities in the Solar Cycle. Astrophysical Journal, 2018, 854, 85.	4.5	22
52	Multispacecraft study on the dynamics of the dusk-flank magnetosphere under northward IMF: 10–11 January 1997. Journal of Geophysical Research, 2002, 107, SMP 27-1.	3.3	21
53	Constructing the magnetospheric model including pressure measurements. Journal of Geophysical Research, 2002, 107, SMP 4-1.	3.3	21
54	Effect of an MLT dependent electron loss rate on the magnetosphereâ€ionosphere coupling. Journal of Geophysical Research, 2012, 117, .	3.3	21

#	Article	IF	CITATIONS
55	Do solar cycles influence giant cell arteritis and rheumatoid arthritis incidence?. BMJ Open, 2015, 5, e006636.	1.9	21
56	Transfer entropy and cumulant-based cost as measures of nonlinear causal relationships in space plasmas: applications to <i>D</i> <sub>st</sub> . Annales Geophysicae, 2018, 36, 945-952.	1.6	20
57	Introduction to special section on Entropy Properties and Constraints Related to Space Plasma Transport. Journal of Geophysical Research, 2010, 115, .	3.3	19
58	Comparison of DMSP and SECS region-1 and region-2 ionospheric current boundary. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 143-144, 8-13.	1.6	19
59	Observation of two distinct cold, dense ion populations at geosynchronous orbit: local time asymmetry, solar wind dependence and origin. Annales Geophysicae, 2006, 24, 3451-3465.	1.6	18
60	Cusp Modeling and Observations at Low Altitude. Surveys in Geophysics, 2005, 26, 341-367.	4.6	17
61	Far-ultraviolet signature of polar cusp during southward IMFBzobserved by TIMED/Global Ultraviolet Imager and DMSP. Journal of Geophysical Research, 2005, 110, .	3.3	17
62	Data derived continuous time model for theDstdynamics. Geophysical Research Letters, 2006, 33, .	4.0	16
63	Solar wind driving of dayside field-aligned currents. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
64	Theory and observations of upward fieldâ€aligned currents at the magnetopause boundary layer. Geophysical Research Letters, 2015, 42, 9149-9155.	4.0	16
65	Filamentary field-aligned currents at the polar cap region during northward interplanetary magnetic field derived with the Swarm constellation. Annales Geophysicae, 2016, 34, 901-915.	1.6	16
66	Multi-input data derivedDstmodel. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	15
67	On the propagation of uncertainties in radiation belt simulations. Space Weather, 2016, 14, 982-992.	3.7	15
68	Fieldâ€Aligned Currents in Auroral Vortices. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028583.	2.4	15
69	Untangling the Solar Wind and Magnetospheric Drivers of the Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	15
70	Multiple cusps during an extended northward IMF period with a significant <i>B</i> <sub><i>y</i></sub> component. Journal of Geophysical Research, 2008, 113, .	3.3	14
71	Spectral properties and source regions of dayside electron acceleration events. Journal of Geophysical Research, 2005, 110, .	3.3	13
72	On the fieldâ€aligned electric field in the polar cap. Geophysical Research Letters, 2015, 42, 5090-5099.	4.0	13

#	Article	IF	CITATIONS
73	Cusp for high and low merging rates. Journal of Geophysical Research, 2007, 112, .	3.3	12
74	Polar rain gradients and fieldâ $\in$ aligned polar cap potentials. Journal of Geophysical Research, 2008, 113, .	3.3	12
75	Periodic Narrowband Radio Wave Emissions and Inward Plasma Transport at Saturn's Magnetosphere. Astronomical Journal, 2020, 159, 249.	4.7	12
76	Low Energy Precipitating Electrons in the Diffuse Aurorae. Geophysical Research Letters, 2019, 46, 3582-3589.	4.0	11
77	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Duskside, High‣atitude Magnetopause Boundary Layer. Geophysical Research Letters, 2021, 48, e2021GL092466.	4.0	9
78	Neural networks for automated classification of ionospheric irregularities in HF radar backscattered signals. Radio Science, 2003, 38, n/a-n/a.	1.6	8
79	LLBL Contribution to the Plasma Sheet Ions. Geophysical Monograph Series, 2003, , 273-282.	0.1	8
80	Asymmetrical response of dayside ion precipitation to a large rotation of the IMF. Journal of Geophysical Research: Space Physics, 2016, 121, 263-273.	2.4	8
81	Information Theoretical Approach to Understanding Flare Waiting Times. Astrophysical Journal, 2020, 899, 148.	4.5	8
82	Entropy conservation and rate of propagation of bubbles in the Earth's magnetotail: A case study. Journal of Geophysical Research, 2012, 117, .	3.3	7
83	Dawnâ€dusk asymmetry in solar wind ion entry and dayside precipitation: Results from largeâ€scale simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 1549-1562.	2.4	7
84	The double auroral oval in the duskâ€midnight sector: Formation, mapping and dynamics. Journal of Geophysical Research, 2012, 117, .	3.3	6
85	Entry of Solar Wind Plasma into the Magnetosphere: Observations Encounter Simulation. Geophysical Monograph Series, 2013, , 73-84.	0.1	6
86	The nightside magnetic field line open–closed boundary and polar rain electron energy-latitude dispersion. Annales Geophysicae, 2015, 33, 39-46.	1.6	6
87	An Information-Theoretical Approach to Space Weather. , 2018, , 45-69.		6
88	Multisatellite lowâ€altitude observations of a magnetopause merging burst. Journal of Geophysical Research, 2010, 115, .	3.3	4
89	Simulating Properties of "Seasonal―Variability in Solar Activity and Space Weather Impacts. Frontiers in Astronomy and Space Sciences, 2021, 8,	2.8	4
90	Multi-Spacecraft Observations of Fluctuations Occurring Along the Dusk Flank Magnetopause, and Testing the Connection to an Observed Ionospheric Bead. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	4

#	Article	IF	CITATIONS
91	Determining magnetotail reconnection location from polar rain energy dispersion. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 130-131, 75-80.	1.6	3
92	Untangling the Solar Wind Drivers of the Radiation Belt: An Information Theoretical Approach. , 2018, , 149-175.		3
93	Dayside Cusp Aurorae and Ionospheric Convection Under Radial Interplanetary Magnetic Fields. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027664.	2.4	3
94	Role of the Solar Minimum in the Waiting Time Distribution Throughout the Heliosphere. Geophysical Research Letters, 2021, 48, e2021GL094348.	4.0	3
95	Remotely imaging the plasma sheet with low-altitude satellite clusters. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 851-863.	1.6	2
96	Mobile and Wireless Communication: Space Weather Threats, Forecasts, and Risk Management. IT Professional, 2012, 14, 40-46.	1.5	2
97	Fieldâ€∎ligned currents during the extreme solar minimum between the solar cycles 23 and 24. Journal of Geophysical Research: Space Physics, 2014, 119, 2466-2475.	2.4	1
98	Temporal and Spatial Development of TEC Enhancements during Substorms. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026985.	2.4	1
99	Driving Parameters for Multiâ€MeV Electrons Flux Variations in Outer Radiation Belt. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029625.	2.4	1
100	Polar Cap Boundary Identification Using Redline Optical Data and DMSP Satellite Particle Data. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1
101	Kinetic Alfven Waves in the Global Coupling Associated with Fast Flows. , 2021, , .		0
102	Cusp Modeling and Observations at Low Altitude. , 2005, , 341-367.		0
103	Imaging the plasma sheet from ionospheric observations. , 2022, , 341-357.		Ο
104	Transfer Entropy between Intracranial EEG Nodes Highlights Network Dynamics that Cause and Stop Epileptic Seizures. , 2021, 2021, 6121-6125.		0
105		2.8	Ο