

# James A Wild

## List of Publications by Year in descending order

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69  
papers

1,574  
citations

257450

24  
h-index

345221

36  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1463  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution and characteristics of global Pc5 ULF waves during a high solar wind speed interval. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	131
2	Simultaneous THEMIS in situ and auroral observations of a small substorm. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	89
3	First simultaneous observations of flux transfer events at the high-latitude magnetopause by the Cluster spacecraft and pulsed radar signatures in the conjugate ionosphere by the CUTLASS and EISCAT radars. <i>Annales Geophysicae</i> , 2001, 19, 1491-1508.	1.6	76
4	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. <i>Annales Geophysicae</i> , 2012, 30, 1025-1035.	1.6	59
5	Superposed epoch analysis of the ionospheric convection evolution during substorms: onset latitude dependence. <i>Annales Geophysicae</i> , 2009, 27, 591-600.	1.6	52
6	In situ spatiotemporal measurements of the detailed azimuthal substructure of the substorm current wedge. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 927-946.	2.4	49
7	Extended Magnetic Reconnection across the Dayside Magnetopause. <i>Physical Review Letters</i> , 2011, 107, 025004.	7.8	41
8	Development of Space Weather Reasonable Worst-Case Scenarios for the UK National Risk Assessment. <i>Space Weather</i> , 2021, 19, e2020SW002593.	3.7	41
9	Azimuthal magnetic fields in Saturn's magnetosphere: effects associated with plasma sub-corotation and the magnetopause-tail current system. <i>Annales Geophysicae</i> , 2003, 21, 1709-1722.	1.6	40
10	Coordinated interhemispheric SuperDARN radar observations of the ionospheric response to flux transfer events observed by the Cluster spacecraft at the high-latitude magnetopause. <i>Annales Geophysicae</i> , 2003, 21, 1807-1826.	1.6	39
11	Superposed epoch analysis of the ionospheric convection evolution during substorms: IMF dependence. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
12	Transient Pc3 wave activity generated by a hot flow anomaly: Cluster, Rosetta, and ground-based observations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
13	The location of the Earth's magnetopause: A comparison of modeled position and in situ Cluster data. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6127-6135.	2.4	36
14	A global climatological model of extreme geomagnetic field fluctuations. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 5.	3.3	35
15	Transient plasma injections in the dayside magnetosphere: one-to-one correlated observations by Cluster and SuperDARN. <i>Annales Geophysicae</i> , 2004, 22, 141-158.	1.6	33
16	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. <i>Annales Geophysicae</i> , 2001, 19, 1589-1612.	1.6	32
17	Formation of the low-latitude boundary layer and cusp under the northward IMF: Simultaneous observations by Cluster and Double Star. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
18	Coordinated Cluster and ground-based instrument observations of transient changes in the magnetopause boundary layer during an interval of predominantly northward IMF: relation to reconnection pulses and FTE signatures. <i>Annales Geophysicae</i> , 2001, 19, 1613-1640.	1.6	30

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19	Diurnal Variations in Global Joule Heating Morphology and Magnitude Due To Neutral Winds. Journal of Geophysical Research: Space Physics, 2018, 123, 2398-2411.	2.4	30
20	On the triggering of auroral substorms by northward turnings of the interplanetary magnetic field. Annales Geophysicae, 2009, 27, 3559-3570.	1.6	28
21	Day-to-day variability of midlatitude ionospheric currents due to magnetospheric and lower atmospheric forcing. Journal of Geophysical Research: Space Physics, 2016, 121, 7067-7086.	2.4	27
22	Multi-instrument observations of the electric and magnetic field structure of omega bands. Annales Geophysicae, 2000, 18, 99-110.	1.6	26
23	Interhemispheric asymmetries in the occurrence of magnetically conjugate sub-auroral polarisation streams. Annales Geophysicae, 2005, 23, 1371-1390.	1.6	26
24	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
25	Coordinated studies of the geospace environment using Cluster, satellite and ground-based data: an interim review. Annales Geophysicae, 2005, 23, 2129-2170.	1.6	25
26	The location of the open-closed magnetic field line boundary in the dawn sector auroral ionosphere. Annales Geophysicae, 2004, 22, 3625-3639.	1.6	24
27	On the formation of the high-altitude stagnant cusp: Cluster observations. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	24
28	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. Geophysical Research Letters, 2009, 36, .	4.0	24
29	Stationary flux ropes at the southern terminator of Mars. Journal of Geophysical Research, 2012, 117, .	3.3	24
30	The Martian Bow Shock Over Solar Cycle 23-24 as Observed by the Mars Express Mission. Journal of Geophysical Research: Space Physics, 2019, 124, 4761-4772.	2.4	24
31	Pulsed flows at the high-altitude cusp poleward boundary, and associated ionospheric convection and particle signatures, during a Cluster - FAST - SuperDARN - SÅndrestrÅm conjunction under a southwest IMF. Annales Geophysicae, 2004, 22, 2891-2905.	1.6	23
32	The influence of magnetospheric substorms on SuperDARN radar backscatter. Journal of Geophysical Research, 2008, 113, .	3.3	22
33	A statistical comparison of solar wind propagation delays derived from multispacecraft techniques. Journal of Geophysical Research, 2012, 117, .	3.3	22
34	Revised time-of-flight calculations for high-latitude geomagnetic pulsations using a realistic magnetospheric magnetic field model. Journal of Geophysical Research, 2005, 110, .	3.3	21
35	On the location of dayside magnetic reconnection during an interval of duskward oriented IMF. Annales Geophysicae, 2007, 25, 219-238.	1.6	20
36	Coordinated ground-based, low altitude satellite and Cluster observations on global and local scales during a transient post-noon sector excursion of the magnetospheric cusp. Annales Geophysicae, 2001, 19, 1367-1398.	1.6	19

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37	Simultaneous in-situ observations of the signatures of dayside reconnection at the high- and low-latitude magnetopause. <i>Annales Geophysicae</i> , 2005, 23, 445-460.	1.6	19
38	Polar, Cluster and SuperDARN evidence for high-latitude merging during southward IMF: temporal/spatial evolution. <i>Annales Geophysicae</i> , 2003, 21, 2233-2258.	1.6	18
39	Midnight sector observations of auroral omega bands. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	18
40	Shapes of Magnetically Controlled Electron Density Structures in the Dayside Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3919-3942.	2.4	16
41	Characteristics of variations in the ground magnetic field during substorms at mid latitudes. <i>Annales Geophysicae</i> , 2009, 27, 3421-3428.	1.6	11
42	Mesoscale observations of Joule heating near an auroral arc and ion-neutral collision frequency in the polar cap region. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
43	A high-resolution model of the external and induced magnetic field at the Earth's surface in the Northern Hemisphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2440-2454.	2.4	11
44	Multi-Instrument Observations of Ion-Neutral Coupling in the Dayside Cusp. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085590.	4.0	11
45	Nightside Ionospheric Convection Asymmetries During the Early Substorm Expansion Phase: Relationship to Onset Local Time. <i>Geophysical Research Letters</i> , 2017, 44, 11,696-11,705.	4.0	10
46	Inner plasma structure of the low-latitude reconnection layer. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
47	Alfvén: magnetosphere-ionosphere connection explorers. <i>Experimental Astronomy</i> , 2012, 33, 445-489.	3.7	9
48	Spatially Resolved Neutral Wind Response Times During High Geomagnetic Activity Above Svalbard. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6950-6960.	2.4	9
49	Mars™ plasma system. Scientific potential of coordinated multipoint missions: “The next generation”. <i>Experimental Astronomy</i> , 2022, 54, 641-676.	3.7	9
50	The Impact and Mechanism of the Magnetic Inclination Angle on $O^{+}$ Escape from Mars. <i>Astrophysical Journal</i> , 2022, 931, 30.	4.5	9
51	Flux closure during a substorm observed by Cluster, Double Star, IMAGE FUV, SuperDARN, and Greenland magnetometers. <i>Annales Geophysicae</i> , 2006, 24, 751-767.	1.6	8
52	CUTLASS HF radar observations of high-latitude azimuthally propagating vortical currents in the nightside ionosphere during magnetospheric substorms. <i>Annales Geophysicae</i> , 2000, 18, 640-652.	1.6	7
53	Global MHD simulation of flux transfer events at the high-latitude magnetopause observed by the Cluster spacecraft and the SuperDARN radar system. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
54	Properties of a large-scale flux rope and current sheet region on the dayside of Mars: MGS MAG/ER and MEX ASPERA-3 ELS observations. <i>Icarus</i> , 2014, 242, 297-315.	2.5	7

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55	Observations of omega bands using an imaging riometer. <i>Annales Geophysicae</i> , 2009, 27, 4183-4195.	1.6	6
56	Auroral spectral estimation with wide-band color mosaic CCDs. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2014, 3, 71-94.	1.6	6
57	Statistical Correlation Analysis of Field-Aligned Currents Measured by Swarm. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8170-8184.	2.4	6
58	Assessing the Impact of Weak and Moderate Geomagnetic Storms on UK Power Station Transformers. <i>Space Weather</i> , 2022, 20, .	3.7	6
59	Double Star, Cluster, and ground-based observations of magnetic reconnection during an interval of duskward oriented IMF: preliminary results. <i>Annales Geophysicae</i> , 2005, 23, 2903-2907.	1.6	5
60	Review of Ionospheric Effects of Solar Wind Magnetosphere Coupling in the Context of the Expanding Contracting Polar Cap Boundary Model. <i>Space Science Reviews</i> , 2007, 124, 117-130.	8.1	5
61	An auroral westward flow channel (AWFC) and its relationship to field-aligned current, ring current, and plasmopause location determined using multiple spacecraft observations. <i>Annales Geophysicae</i> , 2007, 25, 59-76.	1.6	3
62	A general Cluster data and global MHD simulation comparison. <i>Annales Geophysicae</i> , 2008, 26, 3411-3428.	1.6	3
63	AuroraWatch UK: An Automated Aurora Alert System. <i>Earth and Space Science</i> , 2017, 4, 746-754.	2.6	3
64	Climatological Statistics of Extreme Geomagnetic Fluctuations With Periods From 1Âs to 60Âmin. <i>Space Weather</i> , 2021, 19, e2021SW002824.	3.7	3
65	A joint Cluster and ground-based instruments study of two magnetospheric substorm events on 1 September 2002. <i>Annales Geophysicae</i> , 2004, 22, 4217-4228.	1.6	2
66	Combining incoherent scatter radar data and IRI-2007 to monitor the open-closed field line boundary during substorms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	1
67	Meso-scale observations of Joule heating near an auroral arc and ion-neutral collision frequency in the polar cap E-region. , 2011, , .		0
68	IMPALAS: Investigation of MagnetoPause Activity using Longitudinally-Aligned Satellitesâ€”a mission concept proposed for the ESA M3 2020/2022 launch. <i>Experimental Astronomy</i> , 2012, 33, 365-401.	3.7	0
69	The distribution and direction of extreme geomagnetic fluctuations over 1-60 minute periods. , 2020, , .		0