James A Wild

List of Publications by Year
in descending order

69 papers	1,574 citations	293460 24 h-index	388640 36 g-index
72 all docs	72 docs citations	72 times ranked	1531 citing authors

#	Article	IF	Citations
1	Marsâ€™ plasma system. Scientific potential of coordinated multipoint missions: â€œThe next generationâ€• Experimental Astronomy, 2022, 54, 641-676.	1.6	9
2	Assessing the Impact of Weak and Moderate Geomagnetic Storms on UK Power Station Transformers. Space Weather, 2022, 20, .	1.3	6
3	The Impact and Mechanism of the Magnetic Inclination Angle on O⁺ Escape from Mars. Astrophysical Journal, 2022, 931, 30.	1.6	9
4	Development of Space Weather Reasonable Worstâ€Case Scenarios for the UK National Risk Assessment. Space Weather, 2021, 19, e2020SW002593.	1.3	41
5	Climatological Statistics of Extreme Geomagnetic Fluctuations With Periods From 1Âs to 60Âmin. Space Weather, 2021, 19, e2021SW002824.	1.3	3
6	Do Statistical Models Capture the Dynamics of the Magnetopause During Sudden Magnetospheric Compressions?. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027289.	0.8	26
7	Multiâ€Instrument Observations of Ionâ€Neutral Coupling in the Dayside Cusp. Geophysical Research Letters, 2020, 47, e2019GL085590.	1.5	11
8	A global climatological model of extreme geomagnetic field fluctuations. Journal of Space Weather and Space Climate, 2020, 10, 5.	1.1	35
9	The distribution and direction of extreme geomagnetic fluctuations over 1-60 minute periods. , 2020, , .		0
10	Spatially Resolved Neutral Wind Response Times During High Geomagnetic Activity Above Svalbard. Journal of Geophysical Research: Space Physics, 2019, 124, 6950-6960.	0.8	9
11	The Martian Bow Shock Over Solar Cycle 23â€“24 as Observed by the Mars Express Mission. Journal of Geophysical Research: Space Physics, 2019, 124, 4761-4772.	0.8	24
12	Diurnal Variations in Global Joule Heating Morphology and Magnitude Due To Neutral Winds. Journal of Geophysical Research: Space Physics, 2018, 123, 2398-2411.	0.8	30
13	Shapes of Magnetically Controlled Electron Density Structures in the Dayside Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 3919-3942.	0.8	16
14	Statistical Correlation Analysis of Fieldâ€Aligned Currents Measured by Swarm. Journal of Geophysical Research: Space Physics, 2018, 123, 8170-8184.	0.8	6
15	A highâ€resolution model of the external and induced magnetic field at the Earth's surface in the Northern Hemisphere. Journal of Geophysical Research: Space Physics, 2017, 122, 2440-2454.	0.8	11
16	Nightside Ionospheric Convection Asymmetries During the Early Substorm Expansion Phase: Relationship to Onset Local Time. Geophysical Research Letters, 2017, 44, 11,696-11,705.	1.5	10
17	AuroraWatch UK: An Automated Aurora Alert System. Earth and Space Science, 2017, 4, 746-754.	1.1	3
18	Dayâ€toâ€day variability of midlatitude ionospheric currents due to magnetospheric and lower atmospheric forcing. Journal of Geophysical Research: Space Physics, 2016, 121, 7067-7086.	0.8	27

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19	Auroral spectral estimation with wide-band color mosaic CCDs. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 71-94.	0.6	6
20	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. Icarus, 2014, 242, 297-315.	1.1	7
21	In situ spatiotemporal measurements of the detailed azimuthal substructure of the substorm current wedge. Journal of Geophysical Research: Space Physics, 2014, 119, 927-946.	0.8	49
22	The location of the Earth's magnetopause: A comparison of modeled position and in situ Cluster data. Journal of Geophysical Research: Space Physics, 2013, 118, 6127-6135.	0.8	36
23	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. Annales Geophysicae, 2012, 30, 1025-1035.	0.6	59
24	Stationary flux ropes at the southern terminator of Mars. Journal of Geophysical Research, 2012, 117, .	3.3	24
25	Inner plasma structure of the lowâ€latitude reconnection layer. Journal of Geophysical Research, 2012, 117, .	3.3	9
26	A statistical comparison of solar wind propagation delays derived from multispacecraft techniques. Journal of Geophysical Research, 2012, 117, .	3.3	22
27	IMPALAS: Investigation of MagnetoPause Activity using Longitudinally-Aligned Satellitesâ€”a mission concept proposed for the ESA M3 2020/2022 launch. Experimental Astronomy, 2012, 33, 365-401.	1.6	0
28	AlfvÃ©n: magnetosphereâ€”ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	1.6	9
29	Midnight sector observations of auroral omega bands. Journal of Geophysical Research, 2011, 116, .	3.3	18
30	Mesoscale observations of Joule heating near an auroral arc and ion-neutral collision frequency in the polar capEregion. Journal of Geophysical Research, 2011, 116, .	3.3	11
31	Transient Pc3 wave activity generated by a hot flow anomaly: Cluster, Rosetta, and ground-based observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38
32	Extended Magnetic Reconnection across the Dayside Magnetopause. Physical Review Letters, 2011, 107, 025004.	2.9	41
33	Meso-scale observations of Joule heating near an auroral arc and ion-neutral collision frequency in the polar cap E-region. , 2011, , .		0
34	Superposed epoch analysis of the ionospheric convection evolution during substorms: IMF B_Y dependence. Journal of Geophysical Research, 2010, 115, .	3.3	38
35	Combining incoherent scatter radar data and IRIâ€2007 to monitor the openâ€closed field line boundary during substorms. Journal of Geophysical Research, 2010, 115, .	3.3	1
36	On the triggering of auroral substorms by northward turnings of the interplanetary magnetic field. Annales Geophysicae, 2009, 27, 3559-3570.	0.6	28

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37	Observations of omega bands using an imaging riometer. Annales Geophysicae, 2009, 27, 4183-4195.	0.6	6
38	Superposed epoch analysis of the ionospheric convection evolution during substorms: onset latitude dependence. Annales Geophysicae, 2009, 27, 591-600.	0.6	52
39	Characteristics of variations in the ground magnetic field during substorms at mid latitudes. Annales Geophysicae, 2009, 27, 3421-3428.	0.6	11
40	Tracing solar wind plasma entry into the magnetosphere using ionâ€toâ€electron temperature ratio. Geophysical Research Letters, 2009, 36, .	1.5	24
41	Global MHD simulation of flux transfer events at the highâ€latitude magnetopause observed by the Cluster spacecraft and the SuperDARN radar system. Journal of Geophysical Research, 2008, 113, .	3.3	7
42	Formation of the lowâ€latitude boundary layer and cusp under the northward IMF: Simultaneous observations by Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	32
43	The influence of magnetospheric substorms on SuperDARN radar backscatter. Journal of Geophysical Research, 2008, 113, .	3.3	22
44	Simultaneous THEMIS in situ and auroral observations of a small substorm. Geophysical Research Letters, 2008, 35, .	1.5	89
45	A general Cluster data and global MHD simulation comparison. Annales Geophysicae, 2008, 26, 3411-3428.	0.6	3
46	On the location of dayside magnetic reconnection during an interval of duskward oriented IMF. Annales Geophysicae, 2007, 25, 219-238.	0.6	20
47	An auroral westward flow channel (AWFC) and its relationship to field-aligned current, ring current, and plasmapause location determined using multiple spacecraft observations. Annales Geophysicae, 2007, 25, 59-76.	0.6	3
48	Review of Ionospheric Effects of Solar Wind Magnetosphere Coupling in the Context of the Expanding Contracting Polar Cap Boundary Model. Space Science Reviews, 2007, 124, 117-130.	3.7	5
49	Flux closure during a substorm observed by Cluster, Double Star, IMAGE FUV, SuperDARN, and Greenland magnetometers. Annales Geophysicae, 2006, 24, 751-767.	0.6	8
50	Double Star, Cluster, and ground-based observations of magnetic reconnection during an interval of duskward oriented IMF: preliminary results. Annales Geophysicae, 2005, 23, 2903-2907.	0.6	5
51	Interhemispheric asymmetries in the occurrence of magnetically conjugate sub-auroral polarisation streams. Annales Geophysicae, 2005, 23, 1371-1390.	0.6	26
52	Coordinated studies of the geospace environment using Cluster, satellite and ground-based data: an interim review. Annales Geophysicae, 2005, 23, 2129-2170.	0.6	25
53	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
54	On the formation of the high-altitude stagnant cusp: Cluster observations. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	24

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55	Evolution and characteristics of global Pc5 ULF waves during a high solar wind speed interval. Journal of Geophysical Research, 2005, 110, .	3.3	131
56	Simultaneous in-situ observations of the signatures of dayside reconnection at the high- and low-latitude magnetopause. Annales Geophysicae, 2005, 23, 445-460.	0.6	19
57	A joint Cluster and ground-based instruments study of two magnetospheric substorm events on 1 September 2002. Annales Geophysicae, 2004, 22, 4217-4228.	0.6	2
58	The location of the open-closed magnetic field line boundary in the dawn sector auroral ionosphere. Annales Geophysicae, 2004, 22, 3625-3639.	0.6	24
59	Pulsed flows at the high-altitude cusp poleward boundary, and associated ionospheric convection and particle signatures, during a Cluster - FAST - SuperDARN- SÃ¸ndrestrÃ¸m conjunction under a southwest IMF. Annales Geophysicae, 2004, 22, 2891-2905.	0.6	23
60	Transient plasma injections in the dayside magnetosphere: one-to-one correlated observations by Cluster and SuperDARN. Annales Geophysicae, 2004, 22, 141-158.	0.6	33
61	Polar, Cluster and SuperDARN evidence for high-latitude merging during southward IMF: temporal/spatial evolution. Annales Geophysicae, 2003, 21, 2233-2258.	0.6	18
62	Azimuthal magnetic fields in Saturnâ€™s magnetosphere: effects associated with plasma sub-corotation and the magnetopause-tail current system. Annales Geophysicae, 2003, 21, 1709-1722.	0.6	40
63	Coordinated interhemispheric SuperDARN radar observations of the ionospheric response to flux transfer events observed by the Cluster spacecraft at the high-latitude magnetopause. Annales Geophysicae, 2003, 21, 1807-1826.	0.6	39
64	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. Annales Geophysicae, 2001, 19, 1589-1612.	0.6	32
65	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. Annales Geophysicae, 2001, 19, 1613-1640.	0.6	30
66	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.	0.6	19
67	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. Annales Geophysicae, 2001, 19, 1491-1508.	0.6	76
68	Multi-instrument observations of the electric and magnetic field structure of omega bands. Annales Geophysicae, 2000, 18, 99-110.	0.6	26
69	CUTLASS HF radar observations of high-latitude azimuthally propagating vortical currents in the nightside ionosphere during magnetospheric substorms. Annales Geophysicae, 2000, 18, 640-652.	0.6	7