Patrick Alken

List of Publications by Year
in descending order

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45	2,807	279798	233421
papers	citations	23 h-index	45 g-index

51	51	51	3118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	2.5	1,015
2	International Geomagnetic Reference Field: the thirteenth generation. Earth, Planets and Space, 2021, 73, .	2.5	319
3	The influence of nonmigrating tides on the longitudinal variation of the equatorial electrojet. Journal of Geophysical Research, 2008, 113, .	3.3	143
4	Estimating the daytime Equatorial Ionization Anomaly strength from electric field proxies. Journal of Geophysical Research, 2008, 113, .	3.3	117
5	Spatioâ€temporal characterization of the equatorial electrojet from CHAMP, Ã˜rsted, and SACâ€C satellite magnetic measurements. Journal of Geophysical Research, 2007, 112, .	3.3	113
6	September 2019 Antarctic Sudden Stratospheric Warming: Quasiâ€6â€Day Wave Burst and Ionospheric Effects. Geophysical Research Letters, 2020, 47, e2019GL086577.	4.0	94
7	Prompt penetration electric fields and the extreme topside ionospheric response to the June 22â€“23, 2015 geomagnetic storm as seen by the Swarm constellation. Earth, Planets and Space, 2016, 68, .	2.5	80
8	Penetration characteristics of the interplanetary electric field to the daytime equatorial ionosphere. Journal of Geophysical Research, 2008, 113, .	3.3	76
9	Impacts of the January 2022 Tonga Volcanic Eruption on the Ionospheric Dynamo: ICONâ€MIGHTI and Swarm Observations of Extreme Neutral Winds and Currents. Geophysical Research Letters, 2022, 49, .	4.0	67
10	Fast equatorial waves propagating at the top of the Earth's core. Geophysical Research Letters, 2015, 42, 3321-3329.	4.0	63
11	Study of the Equatorial and Lowâ€Latitude Electrodynamic and Ionospheric Disturbances During the 22â€“23 June 2015 Geomagnetic Storm Using Groundâ€Based and Spaceborne Techniques. Journal of Geophysical Research: Space Physics, 2018, 123, 2424-2440.	2.4	57
12	Direct comparison of nonmigrating tidal signatures in the electrojet, vertical plasma drift and equatorial ionization anomaly. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 75-76, 31-43.	1.6	47
13	Swarm SCARF equatorial electric field inversion chain. Earth, Planets and Space, 2013, 65, 1309-1317.	2.5	39
14	Swarm equatorial electric field chain: First results. Geophysical Research Letters, 2015, 42, 673-680.	4.0	38
15	Evaluation of candidate models for the 13th generation International Geomagnetic Reference Field. Earth, Planets and Space, 2021, 73, .	2.5	33
16	Relationship between the ionospheric eastward electric field and the equatorial electrojet. Geophysical Research Letters, 2010, 37, .	4.0	30
17	Electric fields in the equatorial ionosphere derived from CHAMP satellite magnetic field measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 319-326.	1.6	29
18	Equatorial Counter Electrojet Longitudinal and Seasonal Variability in the American Sector. Journal of Geophysical Research: Space Physics, 2018, 123, 9906-9920.	2.4	29

#	Article	IF	Citations
19	NOAA/NGDC candidate models for the 12th generation International Geomagnetic Reference Field. Earth, Planets and Space, 2015, 67, .	2.5	28
20	Quasiâ€6â€Day Wave Modulation of the Equatorial Electrojet. Journal of Geophysical Research: Space Physics, 2018, 123, 4094-4109.	2.4	26
21	Co-estimation of geomagnetic field and in-orbit fluxgate magnetometer calibration parameters. Earth, Planets and Space, 2020, 72, .	2.5	26
22	Observations and modeling of the ionospheric gravity and diamagnetic current systems from CHAMP and Swarm measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 589-601.	2.4	25
23	Longitudinal Variation of the Lunar Tide in the Equatorial Electrojet. Journal of Geophysical Research: Space Physics, 2017, 122, 12,445.	2.4	24
24	Longitudinal and seasonal structure of the ionospheric equatorial electric field. Journal of Geophysical Research: Space Physics, 2013, 118, 1298-1305.	2.4	23
25	The F-Region Gravity and Pressure Gradient Current Systems: A Review. Space Science Reviews, 2017, 206, 451-469.	8.1	23
26	A quiet time empirical model of equatorial vertical plasma drift in the Peruvian sector based on 150 km echoes. Journal of Geophysical Research, 2009, 114, .	3.3	21
27	The ionospheric gravity and diamagnetic current systems. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	20
28	Comprehensive Analysis of the Counter Equatorial Electrojet: Average Properties as Deduced From CHAMP Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 5159-5181.	2.4	20
29	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. Geophysical Research Letters, 2008, 35, .	4.0	19
30	Special issue â€œInternational Geomagnetic Reference Field: the thirteenth generationâ€• Earth, Planets and Space, 2022, 74, .	2.5	18
31	New perspectives on equatorial electrojet tidal characteristics derived from the Swarm constellation. Journal of Geophysical Research: Space Physics, 2016, 121, 7226-7237.	2.4	17
32	Longâ€period promptâ€penetration electric fields derived from CHAMP satellite magnetic measurements. Journal of Geophysical Research: Space Physics, 2013, 118, 5919-5930.	2.4	16
33	An application of principal component analysis to the interpretation of ionospheric current systems. Journal of Geophysical Research: Space Physics, 2017, 122, 5687-5708.	2.4	15
34	Electric fields and zonal winds in the equatorial ionosphere inferred from CHAMP satellite magnetic measurements. Geophysical Research Letters, 2007, 34, .	4.0	12
35	Modelling diurnal variation magnetic fields due to ionospheric currents. Geophysical Journal International, 2021, 225, 1086-1109.	2.4	12
36	Evolution of the Geomagnetic Daily Variation at Tatuoca, Brazil, From 1957 to 2019: A Transition From Sq to EEJ. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028109.	2.4	9

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37	NOAA/NCEI and University of Colorado candidate models for IGRF-13. Earth, Planets and Space, 2021, 73, .	2.5	9
38	The Sidebands of the Equatorial Electrojet: General Characteristic of the Westward Currents, as Deduced From CHAMP. Journal of Geophysical Research: Space Physics, 2018, 123, 1457-1476.	2.4	8
39	Longitudinal variability of the equatorial counter electrojet during the solar cycle 24. Studia Geophysica Et Geodaetica, 2019, 63, 304-319.	0.5	8
40	Average Ionospheric Middle and Low Latitudes Nighttime Zonal Currents Deduced From CHAMP. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027702.	2.4	7
41	Estimating Currents and Electric Fields at Low Latitudes from Satellite Magnetic Measurements. , 2020, , 233-254.		6
42	Shortâ€Term Variability of Equatorial Electrojet Modulation by Solar Tidal and Planetary Waves, as Derived From the Swarm Constellation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028884.	2.4	4
43	Dipolar elementary current systems for ionospheric current reconstruction at low and middle latitudes. Earth, Planets and Space, 2020, 72, 146.	2.5	4
44	Multispacecraft Current Density Estimates in the Lowâ€and Midâ€Latitude Fâ€Region Ionosphere Using the Swarm Constellation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028872.	2.4	2
45	The F F -Region Gravity and Pressure Gradient Current Systems: A Review. Space Sciences Series of ISSI, 2018, , 459-477.	0.0	2