

Robert F Pfaff

List of Publications by Year in descending order

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92
papers

3,770
citations

172457

29
h-index

133252

59
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97
all docs

97
docs citations

97
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant Alfvén Waves in the Lower Auroral Ionosphere: Evidence for the Nonlinear Evolution of the Ionospheric Feedback Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
2	Dual Sounding Rocket and C/NOFS Satellite Observations of DC Electric Fields and Plasma Density in the Equatorial and Region Ionosphere at Sunset. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
3	A Study of Post-Sunset Spread-F Initiation During the 2013 EVEX Campaign. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	1
4	Micro-scale Plasma Instabilities in the Interaction Region of the Solar Wind and the Martian Upper Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	2
5	Imaging Low-Energy Ion Outflow in the Auroral Zone. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	1
6	Lower-thermosphere-ionosphere (LTI) quantities: current status of measuring techniques and models. <i>Annales Geophysicae</i> , 2021, 39, 189-237.	1.6	25
7	The Vector Electric Field Investigation (VEFI) on the C/NOFS Satellite. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	3
8	Low-Latitude Whistler-Wave Spectra and Polarization From VEFI and CINDI Payloads on C/NOFS Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027074.	2.4	1
9	Daytime Dynamo Electrodynamics With Spiral Currents Driven by Strong Winds Revealed by Vapor Trails and Sounding Rocket Probes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088803.	4.0	12
10	The Beam Plasma Interactions Experiment: An Active Experiment Using Pulsed Electron Beams. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	13
11	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Low-Latitude Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086315.	4.0	4
12	Coordinated Satellite Observations of the Very Low Frequency Transmission Through the Ionospheric D Layer at Low Latitudes, Using Broadband Radio Emissions From Lightning. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2926-2952.	2.4	8
13	Partially Ionized Plasmas in Astrophysics. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	102
14	Ionospheric storm effects and equatorial plasma irregularities during the 17-18 March 2015 event. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9146-9163.	2.4	33
15	Automated identification of discrete, lightning-generated, multiple-dispersed whistler waves in C/NOFS-VEFI very low frequency observations. <i>Radio Science</i> , 2016, 51, 1547-1569.	1.6	4
16	VISIONS remote observations of a spatially-structured filamentary source of energetic neutral atoms near the polar cap boundary during an auroral substorm. <i>Advances in Space Research</i> , 2015, 56, 2097-2105.	2.6	7
17	A dayside plasma depletion observed at midlatitudes during quiet geomagnetic conditions. <i>Geophysical Research Letters</i> , 2015, 42, 967-974.	4.0	19
18	Inner magnetospheric electron temperature and spacecraft potential estimated from concurrent Polar upper hybrid frequency and relative potential measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8046-8062.	2.4	3

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19	A method to estimate whistler wave vector from polarization using three-component electric field data. <i>Radio Science</i> , 2014, 49, 131-145.	1.6	6
20	Ram/Wake and Surface Layer Effects on DC Electric Field Measurements in LEO. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 3459-3470.	1.3	1
21	Ion-neutral coupling during deep solar minimum. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 103, 138-146.	1.6	10
22	Equatorial zonal plasma drifts measured by the C/NOFS satellite during the 2008-2011 solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3891-3897.	2.4	37
23	Attenuation of lightning-produced sferics in the Earth's ionosphere waveguide and low-latitude ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3692-3699.	2.4	19
24	Exploring the role of ionospheric drivers during the extreme solar minimum of 2008. <i>Annales Geophysicae</i> , 2013, 31, 2147-2156.	1.6	21
25	Equatorial ionosphere semiannual oscillation investigated from Schumann resonance measurements on board the C/NOFS satellite. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,045.	3.3	1
26	Measurements of Thermal Ion Drift Velocity and Temperature Using Planar Sensors. <i>Geophysical Monograph Series</i> , 2013, , 61-71.	0.1	67
27	USING SCHUMANN RESONANCE MEASUREMENTS FOR CONSTRAINING THE WATER ABUNDANCE ON THE GIANT PLANETS—IMPLICATIONS FOR THE SOLAR SYSTEM'S FORMATION. <i>Astrophysical Journal</i> , 2012, 750, 85.	4.5	11
28	Detection of ionospheric Alfvén resonator signatures in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
29	Images of bottomside irregularities observed at topside altitudes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
30	The Near-Earth Plasma Environment. <i>Space Science Reviews</i> , 2012, 168, 23-112.	8.1	31
31	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. <i>Space Science Reviews</i> , 2012, 168, 551-593.	8.1	33
32	The Near-Earth Plasma Environment. <i>Space Sciences Series of ISSI</i> , 2012, , 23-112.	0.0	3
33	Satellite observations of Schumann resonances in the Earth's ionosphere. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	47
34	C/NOFS measurements of magnetic perturbations in the low-latitude ionosphere during magnetic storms. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	21
35	Topside equatorial ionospheric density and composition during and after extreme solar minimum. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	45
36	Science of opportunity: Heliophysics on the FASTSAT mission and STP-S26. , 2011, , .		6

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37	Monitoring D-region variability from lightning measurements. , 2011, , .		3
38	VLF and HF plasma waves associated with spread-F plasma depletions observed on the C/NOFS satellite. , 2011, , .		1
39	Initial Studies with the Lightning Detector on the C/NOFS Satellite, and Cross Validation with WWLLN. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1423-1435.	1.3	4
40	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. Space Sciences Series of ISSI, 2011, , 551-593.	0.0	5
41	Observations of DC electric fields in the low-latitude ionosphere and their variations with local time, longitude, and plasma density during extreme solar minimum. Journal of Geophysical Research, 2010, 115, .	3.3	65
42	C/NOFS observations of deep plasma depletions at dawn. Geophysical Research Letters, 2009, 36, .	4.0	72
43	Lightning-induced plasma turbulence and ion heating in equatorial ionospheric depletions. Nature Geoscience, 2008, 1, 101-105.	12.9	27
44	Lightning-induced lower-hybrid turbulence and trapped Extremely Low Frequency (ELF) electromagnetic waves observed in deep equatorial plasma density depletions during intense magnetic storms. Journal of Geophysical Research, 2008, 113, .	3.3	6
45	Imaging radar observations of Farley Buneman waves during the JOULE II experiment. Annales Geophysicae, 2008, 26, 1837-1850.	1.6	17
46	Energetics and structure of the lower E region associated with sporadic E layer. Annales Geophysicae, 2008, 26, 2929-2936.	1.6	1
47	ICE, the electric field experiment on DEMETER. Planetary and Space Science, 2006, 54, 456-471.	1.7	294
48	SEEK-2 (Sporadic <i>E</i>; Experiment over Kyushu 2) ' Project Outline, and Significance. Annales Geophysicae, 2005, 23, 2295-2305.	1.6	45
49	Electric field measurements of DC and long wavelength structures associated with sporadic <i>E</i> layers and QP radar echoes. Annales Geophysicae, 2005, 23, 2319-2334.	1.6	20
50	Simultaneous optical, CUTLASS HF radar, and FAST spacecraft observations: signatures of boundary layer processes in the cusp. Annales Geophysicae, 2004, 22, 511-525.	1.6	19
51	Electric Field, Magnetic Field, and Density Measurements on the Active Plasma Experiment Sounding Rocket. Journal of Spacecraft and Rockets, 2004, 41, 521-532.	1.9	14
52	Polar observations of electron density distribution in the Earth's magnetosphere. 2. Density profiles. Annales Geophysicae, 2002, 20, 1725-1735.	1.6	19
53	FAST observations of discrete electrostatic waves in association with down-going ion beams in the auroral zone. Journal of Geophysical Research, 2002, 107, SMP 12-1.	3.3	24
54	Polar observations of electron density distribution in the Earth's magnetosphere. 1. Statistical results. Annales Geophysicae, 2002, 20, 1711-1724.	1.6	26

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55	Rocket probe observations of electric field irregularities in the polar summer mesosphere. Geophysical Research Letters, 2001, 28, 1431-1434.	4.0	19
56	Fast Auroral Snapshot observations of cusp electron and ion structures. Journal of Geophysical Research, 2001, 106, 25595-25600.	3.3	22
57	The FAST Satellite Fields Instrument. Space Science Reviews, 2001, 98, 67-91.	8.1	57
58	An Overview of the Fast Auroral Snapshot (FAST) Satellite. Space Science Reviews, 2001, 98, 1-32.	8.1	28
59	An Overview of the Fast Auroral Snapshot (FAST) Satellite. , 2001, , 1-32.		12
60	Magnetospheric multiscale and global electrodynamics missions. Geophysical Monograph Series, 1999, , 225-235.	0.1	6
61	Solitary potential structures associated with ion and electron beams near 1REaltitude. Journal of Geophysical Research, 1999, 104, 28709-28717.	3.3	103
62	FAST- Geotail correlative studies of magnetosphere ionosphere coupling in the nightside magnetosphere. Geophysical Research Letters, 1998, 25, 2077-2080.	4.0	10
63	Species dependent energies in upward directed ion beams over auroral arcs as observed with FAST TEAMS. Geophysical Research Letters, 1998, 25, 2029-2032.	4.0	41
64	Characteristics of electromagnetic proton cyclotron waves along auroral field lines observed by FAST in regions of upward current. Geophysical Research Letters, 1998, 25, 2057-2060.	4.0	23
65	FAST satellite wave observations in the AKR source region. Geophysical Research Letters, 1998, 25, 2061-2064.	4.0	177
66	FAST satellite observations of electric field structures in the auroral zone. Geophysical Research Letters, 1998, 25, 2025-2028.	4.0	248
67	FAST satellite observations of large-amplitude solitary structures. Geophysical Research Letters, 1998, 25, 2041-2044.	4.0	504
68	Spatial structure and gradients of ion beams observed by FAST. Geophysical Research Letters, 1998, 25, 2021-2024.	4.0	79
69	The association of electrostatic ion cyclotron waves, ion and electron beams and field-aligned currents: FAST observations of an auroral zone crossing near midnight. Geophysical Research Letters, 1998, 25, 2053-2056.	4.0	83
70	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. Geophysical Research Letters, 1998, 25, 2017-2020.	4.0	273
71	Electron modulation and ion cyclotron waves observed by FAST. Geophysical Research Letters, 1998, 25, 2045-2048.	4.0	68
72	Electric field measurements above and within a sporadic-E layer. Geophysical Research Letters, 1998, 25, 1769-1772.	4.0	32

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73	Initial FAST observations of acceleration processes in the cusp. <i>Geophysical Research Letters</i> , 1998, 25, 2037-2040.	4.0	33
74	Comparison of E-region electric fields observed with a sounding rocket and a Doppler radar in the Seek Campaign. <i>Geophysical Research Letters</i> , 1998, 25, 1773-1776.	4.0	22
75	The auroral current circuit and field-aligned currents observed by FAST. <i>Geophysical Research Letters</i> , 1998, 25, 2033-2036.	4.0	84
76	ARIA II neutral flywheel-driven field-aligned currents in the postmidnight sector of the auroral oval: A case study. <i>Journal of Geophysical Research</i> , 1997, 102, 9749-9759.	3.3	8
77	Wavevector observations of the two-stream instability in the daytime equatorial electrojet. <i>Geophysical Research Letters</i> , 1997, 24, 1671-1674.	4.0	11
78	DC polarization electric field, current density, and plasma density measurements in the daytime equatorial electrojet. <i>Geophysical Research Letters</i> , 1997, 24, 1667-1670.	4.0	40
79	The electric field instrument on the polar satellite. <i>Space Science Reviews</i> , 1995, 71, 583-596.	8.1	168
80	Vertical neutral wind in the equatorial F-region deduced from electric field and ion density measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995, 57, 645-651.	0.9	6
81	Focusing of nonducted whistlers by the equatorial anomaly. <i>Journal of Geophysical Research</i> , 1995, 100, 7783.	3.3	10
82	Downrafting plasma flow in equatorial bubbles. <i>Journal of Geophysical Research</i> , 1994, 99, 11507.	3.3	26
83	Interpretation of the electric fields measured in an ionospheric critical ionization velocity experiment. <i>Journal of Geophysical Research</i> , 1991, 96, 9719-9733.	3.3	25
84	Electric and magnetic field measurements inside a high-velocity neutral beam undergoing ionization. <i>Journal of Geophysical Research</i> , 1991, 96, 9703-9718.	3.3	26
85	Nasa's Small Explorer Program. <i>Physics Today</i> , 1991, 44, 44-51.	0.3	10
86	Plasma-depleted holes, waves, and energized particles from high-altitude explosive plasma perturbation experiments. <i>Journal of Geophysical Research</i> , 1985, 90, 4281-4298.	3.3	14
87	Low-altitude image striations associated with bottomside equatorial spread F_2 : Observations and theory. <i>Journal of Geophysical Research</i> , 1984, 89, 2955-2961.	3.3	40
88	Simultaneous rocket probe and radar measurements of equatorial spread F_2 —Transitional and short wavelength results. <i>Journal of Geophysical Research</i> , 1982, 87, 1575-1588.	3.3	98
89	Wave electric field measurements in a dusty plasma in the polar summer mesosphere gathered on a NASA sounding rocket. , 0, , .		0
90	DEMETER Satellite Observations of Plasma Irregularities in the Topside Ionosphere at Low, Middle, and Sub-Auroral Latitudes and their Dependence on Magnetic Storms. <i>Geophysical Monograph Series</i> , 0, , 297-310.	0.1	9

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91	Langmuir Probe Measurements in the Ionosphere. Geophysical Monograph Series, 0, , 23-35.	0.1	53
92	Kinetic Core Plasma Diagnostics. Geophysical Monograph Series, 0, , 105-123.	0.1	9