

# Keith Groves

## List of Publications by Year in descending order

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113  
papers

3,020  
citations

186265

28  
h-index

182427

51  
g-index

116  
all docs

116  
docs citations

116  
times ranked

1444  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Study of Post-Sunset Spread-F Initiation During the 2013 EVEX Campaign. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1
2	On the Generation of an Unseasonal EPB Over South East Asia. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028724.	2.4	2
3	Performance of 6 Different Global Navigation Satellite System Receivers at Low Latitude Under Moderate and Strong Scintillation. Earth and Space Science, 2021, 8, e2020EA001314.	2.6	14
4	3D Multi-fluid MHD Simulation of the Early Time Behavior of an Artificial Plasma Cloud in the Bottom Side Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029036.	2.4	0
5	Evolution of Mid-latitude Density Irregularities and Scintillation in North America During the 7-8 September 2017 Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029192.	2.4	19
6	On the Assessment of Daily Equatorial Plasma Bubble Occurrence Modeling and Forecasting. Space Weather, 2020, 18, e2020SW002555.	3.7	15
7	Leveraging Geodetic GPS Receivers for Ionospheric Scintillation Science. Radio Science, 2020, 55, e2020RS007131.	1.6	21
8	Forcing From Lower Thermosphere and Quiet Time Scintillation Longitudinal Dependence. Space Weather, 2020, 18, e2020SW002610.	3.7	6
9	Radar Investigation of Postsunset Equatorial Ionospheric Instability Over Kwajalein During Project WINDY. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027997.	2.4	7
10	Wave-Optics Analysis of HF Propagation through Traveling Ionospheric Disturbances and Developing Plasma Bubbles. , 2020, , .		8
11	Ionospheric Es layer scintillation characteristics studied with Hilbert-Huang transform. Advances in Space Research, 2019, 64, 2137-2144.	2.6	12
12	Wave Field Propagation in Extended Highly Anisotropic Media. Radio Science, 2019, 54, 646.	1.6	4
13	A Comparison of Electron Densities Derived by Tomographic Inversion of the 135.6-nm Ionospheric Nightglow Emission to Incoherent Scatter Radar Measurements. Journal of Geophysical Research: Space Physics, 2019, 124, 4585-4596.	2.4	7
14	On the Nature of the Intraseasonal Variability of Nighttime Ionospheric Irregularities Over Taiwan. Journal of Geophysical Research: Space Physics, 2019, 124, 3609-3622.	2.4	5
15	VHF Scintillation and Drift Studied Using Spaced Receivers in Southern Taiwan. Radio Science, 2019, 54, 455-467.	1.6	5
16	On the Relationship Between the Rate of Change of Total Electron Content Index (ROTI), Irregularity Strength ( $C_k$ ), and the Scintillation Index ( $S_4$ ). Journal of Geophysical Research: Space Physics, 2019, 124, 2099-2112.	2.4	56
17	Unseasonal development of post-sunset F-region irregularities over Southeast Asia on 28 July 2014: 2. Forcing from below?. Progress in Earth and Planetary Science, 2018, 5, .	3.0	7
18	A Configuration Space Model for Intermediate-Scale Ionospheric Structure. Radio Science, 2018, 53, 1472-1480.	1.6	6

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19	Statistics of Durations and Spacings of Equatorial Plasma Depletions Detected by the C/NOFS Planar Langmuir Probe. <i>Space Weather</i> , 2018, 16, 870-886.	3.7	3
20	Unseasonal development of post-sunset F-region irregularities over Southeast Asia on 28 July 2014: 1. Forcing from above?. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	13
21	Longitudinal and Seasonal Variability of Equatorial Ionospheric Irregularities and Electrodynamics. <i>Space Weather</i> , 2018, 16, 946-968.	3.7	50
22	The electrodynamic effects of MOSC-like plasma clouds. <i>Radio Science</i> , 2017, 52, 604-615.	1.6	13
23	A combined spectroscopic and plasma chemical kinetic analysis of ionospheric samarium releases. <i>Radio Science</i> , 2017, 52, 521-538.	1.6	13
24	HF propagation results from the Metal Oxide Space Cloud (MOSC) experiment. <i>Radio Science</i> , 2017, 52, 710-722.	1.6	9
25	Artificial ionospheric modification: The Metal Oxide Space Cloud experiment. <i>Radio Science</i> , 2017, 52, 539-558.	1.6	23
26	A physics-based model for the ionization of samarium by the MOSC chemical releases in the upper atmosphere. <i>Radio Science</i> , 2017, 52, 559-577.	1.6	27
27	Empirical modeling of plasma clouds produced by the Metal Oxide Space Clouds experiment. <i>Radio Science</i> , 2017, 52, 578-596.	1.6	13
28	A propagation model for geolocating ionospheric irregularities along radio occultation ray-paths. , 2017, , .		1
29	Ionospheric-thermospheric UV tomography: 3. A multisensor technique for creating full-orbit reconstructions of atmospheric UV emission. <i>Radio Science</i> , 2017, 52, 896-916.	1.6	3
30	Ionospheric-thermospheric UV tomography: 2. Comparison with incoherent scatter radar measurements. <i>Radio Science</i> , 2017, 52, 357-366.	1.6	8
31	A technique for inferring zonal irregularity drift from single-station GNSS measurements of intensity ( $S_{4000}$ ) and phase ( $f_{min}$ ) scintillations. <i>Radio Science</i> , 2016, 51, 1263-1277.	1.6	17
32	A characterization of intermediate-scale spread $F$ structure from four years of high-resolution C/NOFS satellite data. <i>Radio Science</i> , 2016, 51, 779-788.	1.6	19
33	Global equatorial plasma bubble occurrence during the 2015 St. Patrick's Day storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 894-905.	2.4	78
34	Simulating ionograms by compounding optically observed plasma clouds with ionospheric modelling technology. , 2015, , .		0
35	Digital signal processing for ionospheric propagation diagnostics. <i>Radio Science</i> , 2015, 50, 837-851.	1.6	2
36	A new assimilative model for intermediate scale ionospheric structure. , 2015, , .		0

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37	TEC variations during geomagnetic storm/substorm with Pc5/PI2 pulsation signature. <i>Advances in Space Research</i> , 2015, 55, 2534-2542.	2.6	7
38	Climatology of GPS amplitude scintillations over equatorial Africa during the minimum and ascending phases of solar cycle 24. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	19
39	Using solar wind data to predict daily GPS scintillation occurrence in the African and Asian low-latitude regions. <i>Geophysical Research Letters</i> , 2014, 41, 8176-8184.	4.0	24
40	Preliminary HF results from the Metal Oxide Space Cloud (MOSC) experiment. , 2014, , .		5
41	An inverse diffraction method for mapping the deterministic structure of ionospheric scintillations from one frequency to another. , 2014, , .		0
42	Geomagnetic control of equatorial plasma bubble activity modeled by the TIEGCM with $\langle i \rangle Kp \langle /i \rangle$ . <i>Geophysical Research Letters</i> , 2014, 41, 5331-5339.	4.0	55
43	Validation of the NeQuick 2 and IRI-2007 models in East-African equatorial region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 102, 26-33.	1.6	44
44	Postmidnight bubbles and scintillations in the quiet-time June solstice. <i>Geophysical Research Letters</i> , 2013, 40, 5592-5597.	4.0	85
45	Signatures of equatorial plasma bubbles in VHF satellite scintillations and equatorial ionograms. <i>Radio Science</i> , 2013, 48, 89-101.	1.6	13
46	In situ irregularity identification and scintillation estimation using wavelets and CINDI on C/NOFS. <i>Radio Science</i> , 2013, 48, 388-395.	1.6	5
47	Latitudinal and Local Time Variation of Ionospheric Turbulence Parameters during the Conjugate Point Equatorial Experiment in Brazil. <i>International Journal of Geophysics</i> , 2012, 2012, 1-16.	1.1	30
48	Equatorial plasma bubbles and L-band scintillations in Africa during solar minimum. <i>Annales Geophysicae</i> , 2012, 30, 675-682.	1.6	75
49	Ionosar - collaborative research towards understanding and mitigating ionospheric effects in SAR. , 2012, , .		1
50	Three-dimensional numerical simulations of equatorial spread $\langle i \rangle F \langle /i \rangle$ : Results and observations in the Pacific sector. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
51	Simulating the impacts of ionospheric scintillation on L band SAR image formation. <i>Radio Science</i> , 2012, 47, .	1.6	77
52	The effect of phase scintillations on the accuracy of phase screen simulation using deterministic screens derived from GPS and ALTAIR measurements. <i>Radio Science</i> , 2012, 47, .	1.6	9
53	Impacts of ionospheric scintillations on GPS receivers intended for equatorial aviation applications. <i>Radio Science</i> , 2012, 47, .	1.6	44
54	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 1267-1286.	1.3	58

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55	Signature of the coronal hole near the north crest equatorial anomaly over Egypt during the strong geomagnetic storm 5 April 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
56	Equatorial scintillation calculations based on coherent scatter radar and C/NOFS data. <i>Radio Science</i> , 2011, 46, .	1.6	23
57	Multiple phase screen modeling of ionospheric scintillation along radio occultation raypaths. <i>Radio Science</i> , 2011, 46, .	1.6	43
58	C/NOFS satellite observations of equatorial ionospheric plasma structures supported by multiple ground-based diagnostics in October 2008. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	18
59	Equatorial scintillation predictions from C/NOFS Planar Langmuir Probe electron density fluctuation data. , 2011, , .		3
60	The effect of ionospheric scintillation on phase gradient autofocus processing of synthetic aperture radar. , 2011, , .		2
61	Study of the ionospheric scintillation and TEC characteristics at solar minimum in a West African equatorial region using Global Positioning System (GPS) data. , 2011, , .		0
62	Equatorial scintillation characteristics during solar minimum: Observations from the SCINDA network. , 2011, , .		0
63	Modeling the low-latitude ionospheric electron density and plasma turbulence in the November 2004 storm period. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 350-357.	1.6	6
64	A phase screen simulator for predicting the impact of small-scale ionospheric structure on SAR image formation and interferometry. , 2010, , .		9
65	Stimulated Brillouin Scatter in a Magnetized Ionospheric Plasma. <i>Physical Review Letters</i> , 2010, 104, 165004.	7.8	55
66	Coordinated study of coherent radar backscatter and optical airglow depletions in the central Pacific. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
67	Specification of the occurrence of equatorial ionospheric scintillations during the main phase of large magnetic storms within solar cycle 23. <i>Radio Science</i> , 2010, 45, n/a-n/a.	1.6	46
68	Correlation of in situ measurements of plasma irregularities with ground-based scintillation observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
69	Magnetic conjugate point observations of kilometer and hundred-meter scale irregularities and zonal drifts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
70	A comprehensive rocket and radar study of midlatitude spread $F_2$ . <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
71	International Heliophysical Year: GPS Network in Africa. <i>Earth, Moon and Planets</i> , 2009, 104, 263-270.	0.6	5
72	Ionospheric effects on GPS signals in the Arctic region using early GPS data from Thule, Greenland. <i>Radio Science</i> , 2009, 44, n/a-n/a.	1.6	7

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73	Simulating the effects of scintillation on transionospheric signals with a two-way phase screen constructed from ALTAIR phase-derived TEC. <i>Radio Science</i> , 2009, 44, .	1.6	12
74	Kalman filter estimation of plasmaspheric total electron content using GPS. <i>Radio Science</i> , 2009, 44, .	1.6	28
75	Conjugate Point Equatorial Experiment (COPEX) campaign in Brazil: Electrodynamics highlights on spread $F_2$ development conditions and day-to-day variability. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	90
76	Day-to-day variability of the equatorial ionization anomaly and scintillations at dusk observed by GUVI and modeling by SAMI3. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	54
77	Ionospheric scintillation effects on single frequency GPS. <i>Space Weather</i> , 2008, 6, .	3.7	20
78	Detection of Ionospheric Structures with L-Band Synthetic Aperture Radars. , 2008, , .		3
79	MF/HF/VHF Radar Observations of Polar Mesosphere Summer Echoes (PMSE). <i>IEEE National Radar Conference - Proceedings</i> , 2007, , .	0.0	0
80	Response of the equatorial ionosphere at dusk to penetration electric fields during intense magnetic storms. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	122
81	Longitudinal correlation of equatorial ionospheric scintillation. <i>Radio Science</i> , 2006, 41, .	1.6	12
82	Extreme longitudinal variability of plasma structuring in the equatorial ionosphere on a magnetically quiet equinoctial day. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	9
83	Signal distortion on VHF/UHF transionospheric paths: First results from the Wideband Ionospheric Distortion Experiment. <i>Radio Science</i> , 2006, 41, .	1.6	25
84	Near-simultaneous plasma structuring in the midlatitude and equatorial ionosphere during magnetic superstorms. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	68
85	Ionospheric scintillation monitoring and mitigation using a software GPS receiver. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	43
86	GPS proxy model for real-time UHF satellite communications scintillation maps from the Scintillation Network Decision Aid (SCINDA). <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	15
87	Operational Space Environment Network Display (OpSEND). <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	12
88	Using ionospheric scintillation observations for studying the morphology of equatorial ionospheric bubbles. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	13
89	Seasonal modulation of GPS performance due to equatorial scintillation. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	8
90	C/NOFS: a demonstration system to forecast equatorial ionospheric scintillation that adversely affects navigation, communication, and surveillance systems. , 2004, 5548, 358.		0

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91	L-band scintillation activity and space-time structure of low-latitude UHF scintillations. Radio Science, 2003, 38, 4-1-4-9.	1.6	42
92	Effect of magnetic activity on the dynamics of equatorial region irregularities. Journal of Geophysical Research, 2002, 107, SIA 20-1-SIA 20-7.	3.3	40
93	Dynamics of equatorial region irregularities from spaced receiver scintillation observations. Geophysical Research Letters, 2001, 28, 119-122.	4.0	75
94	Use of real-time ionospheric scintillation data from multiple stations for nowcasting equatorial ionospheric bubble activity. , 2001, , .		0
95	Measurement of the latitudinal distributions of total electron content during equatorial spread events. Journal of Geophysical Research, 2001, 106, 29133-29152.	3.3	70
96	Validation of WBMOD in the Southeast Asian region. Radio Science, 2001, 36, 1559-1572.	1.6	18
97	A regional GPS receiver network for monitoring equatorial scintillation and total electron content. Radio Science, 2001, 36, 1545-1557.	1.6	20
98	Response of the equatorial ionosphere in the South Atlantic Region to the Great Magnetic Storm of July 15, 2000. Geophysical Research Letters, 2001, 28, 3577-3580.	4.0	202
99	Ionospheric effects of major magnetic storms during the International Space Weather Period of September and October 1999: GPS observations, VHF/UHF scintillations, and in situ density structures at middle and equatorial latitudes. Journal of Geophysical Research, 2001, 106, 30389-30413.	3.3	204
100	Spatial Spectrum of Artificial Ionospheric Irregularities Induced by Powerful HF Radiowaves. Radiophysics and Quantum Electronics, 2001, 44, 833-846.	0.5	12
101	Study of large-scale irregularities generated in the ionospheric F-region by high-power HF waves. Radiophysics and Quantum Electronics, 2000, 43, 446-468.	0.5	11
102	Stimulated thermal instability for ELF and VLF wave generation in the polar electrojet. Geophysical Research Letters, 2000, 27, 85-88.	4.0	15
103	Suprathermal electrons generated by the interaction of powerful radio wave with the ionosphere. Geophysical Research Letters, 2000, 27, 2461-2464.	4.0	14
104	Artificial ionospheric cavity induced by the radiation from the "œsura" facility. Radiophysics and Quantum Electronics, 1999, 42, 601-608.	0.5	0
105	Measurements of artificial periodic inhomogeneities at HIPAS Observatory. Journal of Geophysical Research, 1997, 102, 24023-24035.	3.3	20
106	Equatorial scintillation and systems support. Radio Science, 1997, 32, 2047-2064.	1.6	188
107	Laboratory reproduction of arcibo experimental results: HF wave-enhanced Langmuir waves. Geophysical Research Letters, 1997, 24, 115-118.	4.0	11
108	Equatorial plasma depletion precursor signatures and onset observed at 11° south of the magnetic equator. Journal of Geophysical Research, 1996, 101, 26829-26838.	3.3	45

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109	Radar observations of the onset of current driven instabilities in the topside ionosphere. Geophysical Research Letters, 1988, 15, 160-163.	4.0	91
110	Combined operation of two ground transmitters for enhanced ionospheric heating.. Journal of Geomagnetism and Geoelectricity, 1988, 40, 1141-1145.	0.9	1
111	Specification and Forecasting of Outages on Satellite Communication and Navigation Systems. Geophysical Monograph Series, 0, , 423-430.	0.1	19
112	A Statistical Comparison of Satellite Tracking Performances During Ionospheric Scintillation for the GNSS Constellations GPS, Galileo and GLONASS. , 0, , .		2
113	Quantitative Scintillation Diagnostics Using Total Electron Content from Commercial Off-The-Shelf GNSS Receivers. , 0, , .		0