Juha Vierinen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1269536/publications.pdf Version: 2024-02-01



IIIHA VIEDINEN

#	Article	IF	CITATIONS
1	On the determination of ionospheric electron density profiles using multi-frequency riometry. Geoscientific Instrumentation, Methods and Data Systems, 2022, 11, 25-35.	0.6	2
2	Validation of Multistatic Meteor Radar Analysis Using Modeled Mesospheric Dynamics: An Assessment of the Reliability of Gradients and Vertical Velocities. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	1
3	2022 Tonga Volcanic Eruption Induced Global Propagation of Ionospheric Disturbances via Lamb Waves. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	92
4	Frequency spectra of horizontal winds in the mesosphere and lower thermosphere region from multistatic specular meteor radar observations during the SIMONe 2018 campaign. Earth, Planets and Space, 2022, 74, .	0.9	4
5	Multiple E-Region Radar Propagation Modes Measured by the VHF SIMONe Norway System During Active Ionospheric Conditions. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	5
6	Pronounced Suppression and Xâ€Pattern Merging of Equatorial Ionization Anomalies After the 2022 Tonga Volcano Eruption. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	42
7	Significant Ionospheric Hole and Equatorial Plasma Bubbles After the 2022 Tonga Volcano Eruption. Space Weather, 2022, 20, .	1.3	43
8	Multistatic Specular Meteor Radar Network in Peru: System Description and Initial Results. Earth and Space Science, 2021, 8, e2020EA001293.	1.1	25
9	Radar imaging with EISCAT 3D. Annales Geophysicae, 2021, 39, 119-134.	0.6	8
10	Conjugate Ionospheric Perturbation During the 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028531.	0.8	12
11	An Explanation for Arecibo Plasma Line Power Striations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028734.	0.8	3
12	First Studies of Mesosphere and Lower Thermosphere Dynamics Using a Multistatic Specular Meteor Radar Network Over Southern Patagonia. Earth and Space Science, 2021, 8, e2020EA001356.	1.1	13
13	Determination of the Azimuthal Extent of Coherent Eâ€Region Scatter Using the ICEBEAR Linear Receiver Array. Radio Science, 2021, 56, e2020RS007191.	0.8	5
14	Planetary radar science case for EISCATÂ3D. Annales Geophysicae, 2021, 39, 427-438.	0.6	0
15	Electrified Postsunrise Ionospheric Perturbations at Millstone Hill. Geophysical Research Letters, 2021, 48, e2021GL095151.	1.5	18
16	Observing electric field and neutral wind with EISCAT 3D. Annales Geophysicae, 2021, 39, 961-974.	0.6	2
17	Fourâ€Dimensional Quantification of Kelvinâ€Helmholtz Instabilities in the Polar Summer Mesosphere Using Volumetric Radar Imaging. Geophysical Research Letters, 2020, 47, e2019GL086081.	1.5	18
18	A New Technique for Investigating Dust Charging in the PMSE Source Region. Geophysical Research Letters, 2020, 47, e2020GL089639.	1.5	2

Juha Vierinen

#	Article	IF	CITATIONS
19	Coronal Electron Density Fluctuations Inferred from Akatsuki Spacecraft Radio Observations. Solar Physics, 2020, 295, 1.	1.0	11
20	Millstone Hill ISR Measurements of Small Aspect Angle Spectra. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027708.	0.8	1
21	First observations of the McMurdo–South Pole oblique ionospheric HF channel. Atmospheric Measurement Techniques, 2020, 13, 3023-3031.	1.2	6
22	Radar observability of near-Earth objects using EISCAT 3D. Annales Geophysicae, 2020, 38, 861-879.	0.6	5
23	The Case for Combining a Large Lowâ€Band Very High Frequency Transmitter With Multiple Receiving Arrays for Geospace Research: A Geospace Radar. Radio Science, 2019, 54, 533-551.	0.8	6
24	Observing Mesospheric Turbulence With Specular Meteor Radars: A Novel Method for Estimating Secondâ€Order Statistics of Wind Velocity. Earth and Space Science, 2019, 6, 1171-1195.	1.1	28
25	Radio Occultation Observations of the Solar Corona Over 1.60–1.86Â <i>R</i> _⊙ : Faraday Rotation and Frequency Shift Analysis. Journal of Geophysical Research: Space Physics, 2019, 124, 7761-7777.	0.8	11
26	Solar Flare Effects on 150â€km Echoes Observed Over Jicamarca: WACCMâ€X Simulations. Geophysical Research Letters, 2019, 46, 10951-10958.	1.5	12
27	Traveling Ionospheric Disturbances and Ionospheric Perturbations Associated With Solar Flares in September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 5894-5917.	0.8	36
28	Spacecraft Radio Frequency Fluctuations in the Solar Corona: A MESSENGER–HELIOS Composite Study. Astrophysical Journal, 2019, 871, 202.	1.6	19
29	ICEBEAR: An Allâ€Digital Bistatic Coded Continuousâ€Wave Radar for Studies of the <i>E</i> Region of the Ionosphere. Radio Science, 2019, 54, 349-364.	0.8	13
30	The 3â€Ð Distribution of Artificial Aurora Induced by HF Radio Waves in the Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 2992.	0.8	4
31	Subauroral and Polar Traveling Ionospheric Disturbances During the 7–9 September 2017 Storms. Space Weather, 2019, 17, 1748-1764.	1.3	50
32	Coherent MIMO to Improve Aperture Synthesis Radar Imaging of Field-Aligned Irregularities: First Results at Jicamarca. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2980-2990.	2.7	23
33	In Vitro Volume Imaging of Articular Cartilage Using Chirp-Coded High Frequency Ultrasound. , 2018, ,		5
34	Retrieving horizontally resolved wind fields using multi-static meteor radar observations. Atmospheric Measurement Techniques, 2018, 11, 4891-4907.	1.2	36
35	Pulsating aurora and cosmic noise absorption associated with growth-phase arcs. Annales Geophysicae, 2018, 36, 59-69.	0.6	12
36	Gaussian Markov Random Field Priors in Ionospheric 3-D Multi-Instrument Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7009-7021.	2.7	23

JUHA VIERINEN

#	Article	IF	CITATIONS
37	Radar observations of thermal plasma oscillations in the ionosphere. Geophysical Research Letters, 2017, 44, 5301-5307.	1.5	6
38	On the theory of the incoherent scatter gyrolines. Radio Science, 2017, 52, 723-730.	0.8	2
39	Faraday rotation fluctuations of MESSENGER radio signals through the equatorial lower corona near solar minimum. Space Weather, 2017, 15, 310-324.	1.3	8
40	lonospheric Bow Waves and Perturbations Induced by the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,067.	1.5	91
41	Range-Doppler Mapping of Space-Based Targets Using the JRO 50ÂMHz Radar. Earth, Moon and Planets, 2017, 120, 169-188.	0.3	6
42	GNSS Observations of lonospheric Variations During the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,041.	1.5	97
43	Radar images of the Moon at 6-meter wavelength. Icarus, 2017, 297, 179-188.	1.1	31
44	GPS Data Processing for Scientific Studies of the Earth's Atmosphere and Near-Space Environment. , 2017, , 805-816.		0
45	Bayesian statistical ionospheric tomography improved by incorporating ionosonde measurements. Atmospheric Measurement Techniques, 2016, 9, 1859-1869.	1.2	12
46	Statistical framework for estimating GNSS bias. Atmospheric Measurement Techniques, 2016, 9, 1303-1312.	1.2	92
47	Coded continuous wave meteor radar. Atmospheric Measurement Techniques, 2016, 9, 829-839.	1.2	27
48	A multistatic HF beacon network for ionospheric specification in the Peruvian sector. Radio Science, 2016, 51, 392-401.	0.8	13
49	High temporal resolution observations of auroral electron density using superthermal electron enhancement of Langmuir waves. Geophysical Research Letters, 2016, 43, 5979-5987.	1.5	13
50	A Search for Meteoroid Lunar Impact Generated Electromagnetic Pulses. Earth, Moon and Planets, 2016, 119, 1-21.	0.3	4
51	GPS Data Processing for Scientific Studies of the Earth's Atmosphere and Near-Space Environment. , 2016, , 1-12.		2
52	The science case for the EISCAT_3D radar. Progress in Earth and Planetary Science, 2015, 2, .	1.1	60
53	Dataâ€driven numerical simulations of equatorial spread F in the Peruvian sector 3: Solstice. Journal of Geophysical Research: Space Physics, 2015, 120, 10,809.	0.8	15
54	Radio Array of Portable Interferometric Detectors (RAPID): Development of a deployable multiple application radio array. , 2015, , .		2

Juha Vierinen

#	Article	IF	CITATIONS
55	Ionospheric tomography in Bayesian framework with Gaussian Markov random field priors. Radio Science, 2015, 50, 138-152.	0.8	28
56	Radiometric measurements of electron temperature and opacity of ionospheric perturbations. Radio Science, 2015, 50, 130-137.	0.8	24
57	Allâ€sky interferometric riometry. Radio Science, 2015, 50, 1050-1061.	0.8	5
58	First artificial periodic inhomogeneity experiments at HAARP. Geophysical Research Letters, 2015, 42, 1297-1303.	1.5	9
59	KAIRA: The Kilpisjävi Atmospheric Imaging Receiver Array—System Overview and First Results. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1440-1451.	2.7	38
60	An explanation for observations of apparently high-altitude meteors. Monthly Notices of the Royal Astronomical Society, 2014, 438, 2406-2412.	1.6	8
61	Beacon satellite receiver for ionospheric tomography. Radio Science, 2014, 49, 1141-1152.	0.8	23
62	Ionospheric electron density profiles inverted from a spectral riometer measurement. Geophysical Research Letters, 2014, 41, 5370-5375.	1.5	19
63	Plasma parameter estimation from multistatic, multibeam incoherent scatter data. Journal of Geophysical Research: Space Physics, 2014, 119, 10,528.	0.8	10
64	Broadband meterâ€wavelength observations of ionospheric scintillation. Journal of Geophysical Research: Space Physics, 2014, 119, 10,544.	0.8	17
65	Polyphaseâ€coded incoherent scatter measurements at Millstone Hill. Radio Science, 2013, 48, 519-526.	0.8	1
66	High latitude artificial periodic irregularity observations with the upgraded EISCAT heating facility. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 105-106, 253-261.	0.6	15
67	Kilpisjärvi Atmospheric Imaging Receiver Array — First results. , 2013, , .		3
68	Fractional baud-length coding. Annales Geophysicae, 2011, 29, 1189-1196.	0.6	0
69	Phase-coded pulse aperiodic transmitter coding. Annales Geophysicae, 2009, 27, 2799-2811.	0.6	9
70	Mismatched Filtering of Aperiodic Quadriphase Codes. IEEE Transactions on Information Theory, 2008, 54, 1742-1749.	1.5	11
71	Could negative ion production explain the polar mesosphere winter echo (PMWE) modulation in active HF heating experiments?. Geophysical Research Letters, 2008, 35, .	1.5	15
72	Lag profile inversion method for EISCAT data analysis. Annales Geophysicae, 2008, 26, 571-581.	0.6	24

JUHA VIERINEN

#	Article	IF	CITATIONS
73	Amplitude domain analysis of strong range and Doppler spread radar echos. Annales Geophysicae, 2008, 26, 2419-2426.	0.6	3
74	Polyphase alternating codes. Annales Geophysicae, 2008, 26, 2237-2243.	0.6	10
75	Transmission code optimization method for incoherent scatter radar. Annales Geophysicae, 2008, 26, 2923-2927.	0.6	10
76	New incoherent scatter diagnostic methods for the heated D-region ionosphere. Annales Geophysicae, 2008, 26, 2273-2279.	0.6	14
77	Towards multi-purpose IS radar experiments. Annales Geophysicae, 2008, 26, 2281-2289.	0.6	5
78	Fast comparison of IS radar code sequences for lag profile inversion. Annales Geophysicae, 2008, 26, 2291-2301.	0.6	9
79	Open graphical framework for interactive TV. Multimedia Tools and Applications, 2006, 30, 189-203.	2.6	2
80	A graphics architecture for high-end interactive television terminals. ACM Transactions on Multimedia Computing, Communications and Applications, 2006, 2, 343-357.	3.0	10