Juha Vierinen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1269536/publications.pdf

Version: 2024-02-01

80	1,423	393982	395343
papers	citations	19 h-index	33 g-index

94	94	94	1238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GNSS Observations of Ionospheric Variations During the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,041.	1.5	97
2	Statistical framework for estimating GNSS bias. Atmospheric Measurement Techniques, 2016, 9, 1303-1312.	1.2	92
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	Ionospheric Bow Waves and Perturbations Induced by the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,067.	1.5	91
5	The science case for the EISCAT_3D radar. Progress in Earth and Planetary Science, 2015, 2, .	1.1	60
6	Subauroral and Polar Traveling Ionospheric Disturbances During the 7â€“9 September 2017 Storms. Space Weather, 2019, 17, 1748-1764.	1.3	50
7	Significant Ionospheric Hole and Equatorial Plasma Bubbles After the 2022 Tonga Volcano Eruption. Space Weather, 2022, 20, .	1.3	43
8	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
9	KAIRA: The KilpisjÃrvi Atmospheric Imaging Receiver Arrayâ€”System Overview and First Results. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1440-1451.	2.7	38
10	Retrieving horizontally resolved wind fields using multi-static meteor radar observations. Atmospheric Measurement Techniques, 2018, 11, 4891-4907.	1.2	36
11	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
12	Radar images of the Moon at 6-meter wavelength. Icarus, 2017, 297, 179-188.	1.1	31
13	Ionospheric tomography in Bayesian framework with Gaussian Markov random field priors. Radio Science, 2015, 50, 138-152.	0.8	28
14	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
15	Coded continuous wave meteor radar. Atmospheric Measurement Techniques, 2016, 9, 829-839.	1.2	27
16	Multistatic Specular Meteor Radar Network in Peru: System Description and Initial Results. Earth and Space Science, 2021, 8, e2020EA001293.	1.1	25
17	Lag profile inversion method for EISCAT data analysis. Annales Geophysicae, 2008, 26, 571-581.	0.6	24
18	Radiometric measurements of electron temperature and opacity of ionospheric perturbations. Radio Science, 2015, 50, 130-137.	0.8	24

#	Article	IF	Citations
19	Beacon satellite receiver for ionospheric tomography. Radio Science, 2014, 49, 1141-1152.	0.8	23
20	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
21	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
22	Ionospheric electron density profiles inverted from a spectral riometer measurement. Geophysical Research Letters, 2014, 41, 5370-5375.	1.5	19
23	Spacecraft Radio Frequency Fluctuations in the Solar Corona: A MESSENGERâ€“HELIOS Composite Study. Astrophysical Journal, 2019, 871, 202.	1.6	19
24	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
25	Electrified Postsunrise Ionospheric Perturbations at Millstone Hill. Geophysical Research Letters, 2021, 48, e2021GL095151.	1.5	18
26	Broadband meterâ€wavelength observations of ionospheric scintillation. Journal of Geophysical Research: Space Physics, 2014, 119, 10,544.	0.8	17
27	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
28	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
29	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
30	New incoherent scatter diagnostic methods for the heated D-region ionosphere. Annales Geophysicae, 2008, 26, 2273-2279.	0.6	14
31	A multistatic HF beacon network for ionospheric specification in the Peruvian sector. Radio Science, 2016, 51, 392-401.	0.8	13
32	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
33	ICEBEAR: An Allâ€Digital Bistatic Coded Continuousâ€Wave Radar for Studies of the E Region of the Ionosphere. Radio Science, 2019, 54, 349-364.	0.8	13
34	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
35	Bayesian statistical ionospheric tomography improved by incorporating ionosonde measurements. Atmospheric Measurement Techniques, 2016, 9, 1859-1869.	1.2	12
36	Pulsating aurora and cosmic noise absorption associated with growth-phase arcs. Annales Geophysicae, 2018, 36, 59-69.	0.6	12

#	Article	IF	Citations
37	Solar Flare Effects on 150â€km Echoes Observed Over Jicamarca: WACCMâ€X Simulations. Geophysical Research Letters, 2019, 46, 10951-10958.	1.5	12
38	Conjugate Ionospheric Perturbation During the 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028531.	0.8	12
39	Mismatched Filtering of Aperiodic Quadriphase Codes. IEEE Transactions on Information Theory, 2008, 54, 1742-1749.	1.5	11
40	Radio Occultation Observations of the Solar Corona Over 1.60â€“1.86ÂR_{âŠ™}: Faraday Rotation and Frequency Shift Analysis. Journal of Geophysical Research: Space Physics, 2019, 124, 7761-7777.	0.8	11
41	Coronal Electron Density Fluctuations Inferred from Akatsuki Spacecraft Radio Observations. Solar Physics, 2020, 295, 1.	1.0	11
42	A graphics architecture for high-end interactive television terminals. ACM Transactions on Multimedia Computing, Communications and Applications, 2006, 2, 343-357.	3.0	10
43	Polyphase alternating codes. Annales Geophysicae, 2008, 26, 2237-2243.	0.6	10
44	Transmission code optimization method for incoherent scatter radar. Annales Geophysicae, 2008, 26, 2923-2927.	0.6	10
45	Plasma parameter estimation from multistatic, multibeam incoherent scatter data. Journal of Geophysical Research: Space Physics, 2014, 119, 10,528.	0.8	10
46	Fast comparison of IS radar code sequences for lag profile inversion. Annales Geophysicae, 2008, 26, 2291-2301.	0.6	9
47	Phase-coded pulse aperiodic transmitter coding. Annales Geophysicae, 2009, 27, 2799-2811.	0.6	9
48	First artificial periodic inhomogeneity experiments at HAARP. Geophysical Research Letters, 2015, 42, 1297-1303.	1.5	9
49	An explanation for observations of apparently high-altitude meteors. Monthly Notices of the Royal Astronomical Society, 2014, 438, 2406-2412.	1.6	8
50	Faraday rotation fluctuations of MESSENGER radio signals through the equatorial lower corona near solar minimum. Space Weather, 2017, 15, 310-324.	1.3	8
51	Radar imaging with EISCAT 3D. Annales Geophysicae, 2021, 39, 119-134.	0.6	8
52	Radar observations of thermal plasma oscillations in the ionosphere. Geophysical Research Letters, 2017, 44, 5301-5307.	1.5	6
53	Range-Doppler Mapping of Space-Based Targets Using the JRO 50ÂMHz Radar. Earth, Moon and Planets, 2017, 120, 169-188.	0.3	6
54	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

#	Article	IF	Citations
55	First observations of the McMurdoâ€“South Pole oblique ionospheric HF channel. Atmospheric Measurement Techniques, 2020, 13, 3023-3031.	1.2	6
56	Towards multi-purpose IS radar experiments. Annales Geophysicae, 2008, 26, 2281-2289.	0.6	5
57	Allâ€sky interferometric riometry. Radio Science, 2015, 50, 1050-1061.	0.8	5
58	In Vitro Volume Imaging of Articular Cartilage Using Chirp-Coded High Frequency Ultrasound. , 2018, , .		5
59	Determination of the Azimuthal Extent of Coherent Eâ€Region Scatter Using the ICEBEAR Linear Receiver Array. Radio Science, 2021, 56, e2020RS007191.	0.8	5
60	Radar observability of near-Earth objects using EISCAT 3D. Annales Geophysicae, 2020, 38, 861-879.	0.6	5
61	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
62	A Search for Meteoroid Lunar Impact Generated Electromagnetic Pulses. Earth, Moon and Planets, 2016, 119, 1-21.	0.3	4
63	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
64	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
65	Amplitude domain analysis of strong range and Doppler spread radar echos. Annales Geophysicae, 2008, 26, 2419-2426.	0.6	3
66	Kilpisjärvi Atmospheric Imaging Receiver Array — First results. , 2013, , .		3
67	An Explanation for Arecibo Plasma Line Power Striations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028734.	0.8	3
68	Open graphical framework for interactive TV. Multimedia Tools and Applications, 2006, 30, 189-203.	2.6	2
69	Radio Array of Portable Interferometric Detectors (RAPID): Development of a deployable multiple application radio array. , 2015, , .		2
70	On the theory of the incoherent scatter gyrolines. Radio Science, 2017, 52, 723-730.	0.8	2
71	A New Technique for Investigating Dust Charging in the PMSE Source Region. Geophysical Research Letters, 2020, 47, e2020GL089639.	1.5	2
72	GPS Data Processing for Scientific Studies of the Earthâ€™s Atmosphere and Near-Space Environment. , 2016, , 1-12.		2

#	Article	IF	Citations
73	Observing electric field and neutral wind with EISCAT 3D. Annales Geophysicae, 2021, 39, 961-974.	0.6	2
74	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
75	Polyphaseâ€coded incoherent scatter measurements at Millstone Hill. Radio Science, 2013, 48, 519-526.	0.8	1
76	Millstone Hill ISR Measurements of Small Aspect Angle Spectra. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027708.	0.8	1
77	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
78	Fractional baud-length coding. Annales Geophysicae, 2011, 29, 1189-1196.	0.6	0
79	Planetary radar science case for EISCATÂ3D. Annales Geophysicae, 2021, 39, 427-438.	0.6	0
80	GPS Data Processing for Scientific Studies of the Earthâ€™s Atmosphere and Near-Space Environment. , 2017, , 805-816.		0