

Franz J Meyer

List of Publications by Year in descending order

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93
papers

2,258
citations

257450

24
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243625

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109
all docs

109
docs citations

109
times ranked

2352
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar Interferometric Phase Errors Induced by Faraday Rotation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	1
2	Reliable InSAR Phase History Uncertainty Estimates. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	6.3	5
3	Assessing SAR C-band data to effectively distinguish modified land uses in a heavily disturbed Amazon forest. International Journal of Applied Earth Observation and Geoinformation, 2021, 94, 102214.	2.8	32
4	Improved Boreal Forest Wildfire Fuel Type Mapping in Interior Alaska Using AVIRIS-NG Hyperspectral Data. Remote Sensing, 2021, 13, 897.	4.0	12
5	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. Environmental Research Letters, 2021, 16, 035010.	5.2	21
6	Top-of-permafrost ground ice indicated by remotely sensed late-season subsidence. Cryosphere, 2021, 15, 2041-2055.	3.9	26
7	Assessing Wildfire Burn Severity and Its Relationship with Environmental Factors: A Case Study in Interior Alaska Boreal Forest. Remote Sensing, 2021, 13, 1966.	4.0	4
8	Repeat-Pass Interferometric Speckle. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6736-6750.	6.3	6
9	Ground-Based Radar Interferometry of Sea Ice. Remote Sensing, 2021, 13, 43.	4.0	7
10	Monitoring Weather-Related Hazards Using the HydroSAR Service: Application to the 2020 South Asia Monsoon Season. , 2021, , .		0
11	The 30 November 2018 Mw \hat{A} 7.1 Anchorage Earthquake. Seismological Research Letters, 2020, 91, 66-84.	1.9	29
12	Remote sensing northern lake methane ebullition. Nature Climate Change, 2020, 10, 511-517.	18.8	45
13	Studying the Applicability of X-Band SAR Data to the Network-Scale Mapping of Pavement Roughness on US Roads. Remote Sensing, 2020, 12, 1507.	4.0	15
14	Complementing Optical Remote Sensing with Synthetic Aperture Radar Observations of Hail Damage Swaths to Agricultural Crops in the Central United States. Journal of Applied Meteorology and Climatology, 2020, 59, 665-685.	1.5	16
15	Iceberg topography and volume classification using TanDEM-X interferometry. Cryosphere, 2019, 13, 1861-1875.	3.9	14
16	Operational Flood Mapping Using Multi-Temporal Sentinel-1 SAR Images: A Case Study from Bangladesh. Remote Sensing, 2019, 11, 1581.	4.0	168
17	Reconstructing movement history of frozen debris lobes in northern Alaska using satellite radar interferometry. Remote Sensing of Environment, 2019, 221, 722-740.	11.0	12
18	Instantaneous sea ice drift speed from TanDEM-X interferometry. Cryosphere, 2019, 13, 1395-1408.	3.9	5

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19	An Object-Based Classification Method to Detect Methane Ebullition Bubbles in Early Winter Lake Ice. Remote Sensing, 2019, 11, 822.	4.0	8
20	Mapping pan-Arctic landfast sea ice stability using Sentinel-1 interferometry. Cryosphere, 2019, 13, 557-577.	3.9	35
21	The Sarviews Project: Automated Processing Of Sentinel-1 Sar Data For Geoscience And Hazard Response. , 2019, , .		3
22	Synthetic Aperture Radar and Optical Remote Sensing of Crop Damage Attributed to Severe Weather in the Central United States. , 2019, , .		6
23	Applications of a SAR-Based Flood Monitoring Service During Disaster Response and Recovery. , 2019, , .		3
24	Thermal, Deformation, and Degassing Remote Sensing Time Series (CE 2000â€“2017) at the 47 most Active Volcanoes in Latin America: Implications for Volcanic Systems. Journal of Geophysical Research: Solid Earth, 2019, 124, 195-218.	3.4	67
25	Practical approach for synthetic aperture radar change analysis in urban environments. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	2
26	Traversing Sea Iceâ€”Linking Surface Roughness and Ice Trafficability Through SAR Polarimetry and Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 416-433.	4.9	18
27	Analyzing floating and bedfast lake ice regimes across Arctic Alaska using 25â€”years of space-borne SAR imagery. Remote Sensing of Environment, 2018, 209, 660-676.	11.0	57
28	Evaluating landfast sea ice stress and fracture in support of operations on sea ice using SAR interferometry. Cold Regions Science and Technology, 2018, 149, 51-64.	3.5	20
29	Ionospheric correction of InSAR data for accurate ice velocity measurement at polar regions. Remote Sensing of Environment, 2018, 209, 166-180.	11.0	23
30	Monitoring of Auroral Activities over Fairbanks, Alaska, using SAR, PFISR and Keograms. , 2018, , .		0
31	An Automatic Flood Monitoring Service from Sentinel-1 SAR: Products, Delivery Pipelines, and Performance Assessment. , 2018, , .		6
32	Mapping Arctic Bottomfast Sea Ice Using SAR Interferometry. Remote Sensing, 2018, 10, 720.	4.0	13
33	Oil Spill Detection in Synthetic Aperture Radar Images Using Lipschitz-Regularity and Multiscale Techniques. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2389-2405.	4.9	14
34	Assessing Sea Ice Trafficability in a Changing Arctic. Arctic, 2018, 71, .	0.4	17
35	Detection of aufeis-related flood areas in a time series of high resolution SAR images using curvelet transform and unsupervised classification. , 2017, , .		1
36	Pyroclastic Flow Deposits and InSAR: Analysis of Long-Term Subsidence at Augustine Volcano, Alaska. Remote Sensing, 2017, 9, 4.	4.0	8

#	ARTICLE	IF	CITATIONS
37	Network-scale pavement roughness mapping using spaceborne high-resolution X-band SAR data. , 2017, , .		1
38	Modeling ionospheric phase noise for NISAR mission data. , 2017, , .		2
39	New applications of spaceborne imaging RADAR-C (SIR-C) data. , 2017, , .		0
40	Fernerkundung und Global Change. , 2017, , 771-803.		0
41	Detection and spatiotemporal analysis of methane ebullition on thermokarst lake ice using high-resolution optical aerial imagery. Biogeosciences, 2016, 13, 27-44.	3.3	25
42	Change Detection in Synthetic Aperture Radar Images Using a Multiscale-Driven Approach. Remote Sensing, 2016, 8, 482.	4.0	53
43	InSAR Detection and Field Evidence for Thermokarst after a Tundra Wildfire, Using ALOS-PALSAR. Remote Sensing, 2016, 8, 218.	4.0	40
44	Comparison of Small Baseline Interferometric SAR Processors for Estimating Ground Deformation. Remote Sensing, 2016, 8, 330.	4.0	23
45	Measurement and imaging of infragravity waves in sea ice using InSAR. Geophysical Research Letters, 2016, 43, 6383-6392.	4.0	16
46	Ionospheric effect correction of ice motion mapping using interferometric synthetic aperture radar. , 2016, , .		0
47	The Influence of Equatorial Scintillation on L-Band SAR Image Quality and Phase. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 869-880.	6.3	61
48	Assessing small-scale deformation and stability of landfast sea ice on seasonal timescales through L-band SAR interferometry and inverse modeling. Remote Sensing of Environment, 2016, 187, 492-504.	11.0	20
49	A combined estimator for Interferometric SAR ionosphere correction. , 2016, , .		0
50	The IEEE Alaska Section GRSS Chapter: Remote Sensing of the Last Frontier [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 92-94.	9.6	0
51	Constructing accurate maps of atmospheric water vapor by combining interferometric synthetic aperture radar and GNSS observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1391-1403.	3.3	46
52	Water vapor mapping by fusing InSAR and GNSS remote sensing data and atmospheric simulations. Hydrology and Earth System Sciences, 2015, 19, 4747-4764.	4.9	16
53	Measurement and interpretation of subtle deformation signals at Unimak Island from 2003 to 2010 using weather model-assisted time series InSAR. Journal of Geophysical Research: Solid Earth, 2015, 120, 1175-1194.	3.4	18
54	Integrating SAR and derived products into operational volcano monitoring and decision support systems. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 100, 106-117.	11.1	52

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55	Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4033-4044.	6.3	22
56	Fernerkundung und Global Change. , 2015, , 1-34.		0
57	Analyzing the spatial distribution of coherent points in SAR interferograms. , 2014, , .		1
58	Using Synthetic Aperture Radar to Define Spring Breakup on the Kuparuk River, Northern Alaska. Arctic, 2014, 67, 462.	0.4	7
59	Multi-sensor data fusion for remote sensing of post-eruptive deformation and depositional features at Redoubt Volcano. Journal of Volcanology and Geothermal Research, 2013, 259, 414-423.	2.1	13
60	Correction and Characterization of Radio Frequency Interference Signatures in L-Band Synthetic Aperture Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4961-4972.	6.3	100
61	Characterization of L-band synthetic aperture radar (SAR) backscatter from floating and grounded thermokarst lake ice in Arctic Alaska. Cryosphere, 2013, 7, 1741-1752.	3.9	26
62	Synthetic aperture radar (SAR) backscatter response from methane ebullition bubbles trapped by thermokarst lake ice. Canadian Journal of Remote Sensing, 2013, 38, 667-682.	2.4	31
63	Performance of the high-resolution atmospheric model HRRR for correcting geodetic observations from spaceborne radars. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11611-11624.	3.3	9
64	Analysis of atmospheric signals in spaceborne InSAR - toward water vapor mapping based on multiple sources. , 2012, , .		4
65	SAR interferometry at Venus for topography and change detection. Planetary and Space Science, 2012, 73, 130-144.	1.7	16
66	Making low concentration in-house pressed pellet trace element standards for carbonate rock analyses by WD-XRF. Chemical Geology, 2012, 298-299, 97-115.	3.3	6
67	Constraining clastic input controls on magnetic susceptibility and trace element anomalies during the Late Devonian <i>punctata</i> Event in the Western Canada Sedimentary Basin. Terra Nova, 2012, 24, 301-309.	2.1	20
68	Characterization and extent of randomly-changing radio frequency interference in ALOS PALSAR data. , 2011, , .		8
69	Performance Requirements for Ionospheric Correction of Low-Frequency SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3694-3702.	6.3	102
70	A statistical model of ionospheric signals in low-frequency SAR data. , 2011, , .		5
71	Mapping arctic landfast ice extent using L-band synthetic aperture radar interferometry. Remote Sensing of Environment, 2011, 115, 3029-3043.	11.0	39
72	Ionospheric effects in SAR interferometry: An analysis and comparison of methods for their estimation. , 2011, , .		19

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73	Environmental Security in Arctic Ice-Covered Seas: From Strategy to Tactics of Hazard Identification and Emergency Response. <i>Marine Technology Society Journal</i> , 2011, 45, 37-48.	0.4	25
74	Using L-band SAR coherence to delineate glacier extent. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, S186-S195.	2.4	50
75	Relations between SAR tomography and full-waveform LIDAR for structural analysis of forested areas. , 2010, , .		0
76	A review of ionospheric effects in low-frequency SAR — Signals, correction methods, and performance requirements. , 2010, , .		19
77	Estimation and compensation of ionospheric delay for SAR interferometry. , 2010, , .		56
78	Mapping aurora activity with SAR — a case study. , 2009, , .		5
79	Prediction, Detection, and Correction of Faraday Rotation in Full-Polarimetric L-Band SAR Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 3076-3086.	6.3	116
80	A Comparative Analysis of Tropospheric Water Vapor Measurements from MERIS and SAR. , 2008, , .		14
81	The Impact of the Ionosphere on Interferometric SAR Processing. , 2008, , .		18
82	Mapping the Ionosphere Using L-Band SAR Data. , 2008, , .		6
83	Prediction and detection of Faraday rotation in ALOS PALSAR data. , 2007, , .		6
84	Towards traffic monitoring with TerraSAR-X. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 39-51.	2.4	7
85	Detecting moving targets in dual-channel high resolution spaceborne SAR images with a compound detection scheme. , 2007, , .		4
86	Topography and displacement of polar glaciers from multi-temporal SAR interferograms. <i>Polar Record</i> , 2007, 43, 331-343.	0.8	6
87	Long-Term and Seasonal Subidence Rates in Urban Areas from Persistent Scatterer Interferometry. , 2007, , .		5
88	Processing of Bistatic SAR Data From Quasi-Stationary Configurations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 3350-3358.	6.3	104
89	An Integral Detection Scheme for Moving Object Indication in Dual-Channel High Resolution Spaceborne SAR Data. , 2007, , .		4
90	Traffic monitoring with spaceborne SAR— Theory, simulations, and experiments. <i>Computer Vision and Image Understanding</i> , 2007, 106, 231-244.	4.7	37

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91	The Potential of Low-Frequency SAR Systems for Mapping Ionospheric TEC Distributions. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 560-564.	3.1	189
92	Performance analysis of the TerraSAR-X Traffic monitoring concept. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 61, 225-242.	11.1	63
93	DATA PROCESSING CONCEPTS FOR THE INTEGRATION OF SAR INTO OPERATIONAL VOLCANO MONITORING SYSTEMS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W1, 247-252.	0.2	0