

Thomas Farr

List of Publications by Year in descending order

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59
papers

8,712
citations

159358

30
h-index

174990

52
g-index

60
all docs

60
docs citations

60
times ranked

11276
citing authors

#	ARTICLE	IF	CITATIONS
1	The Shuttle Radar Topography Mission. <i>Reviews of Geophysics</i> , 2007, 45, .	9.0	5,113
2	Shuttle radar topography mission produces a wealth of data. <i>Eos</i> , 2000, 81, 583-585.	0.1	1,011
3	The roughness of natural terrain: A planetary and remote sensing perspective. <i>Journal of Geophysical Research</i> , 2001, 106, 32777-32795.	3.3	307
4	Radar polarimetry: analysis tools and applications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1988, 26, 774-789.	2.7	245
5	Mapping of a major paleodrainage system in eastern Libya using orbital imaging radar: The Kufrah River. <i>Earth and Planetary Science Letters</i> , 2009, 277, 327-333.	1.8	124
6	Distribution and interplay of geologic processes on Titan from Cassini radar data. <i>Icarus</i> , 2010, 205, 540-558.	1.1	122
7	Sustained Water Loss in California's Mountain Ranges During Severe Drought From 2012 to 2015 Inferred From GPS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,559.	1.4	115
8	Linear dunes on Titan and earth: Initial remote sensing comparisons. <i>Geomorphology</i> , 2010, 121, 122-132.	1.1	97
9	Estimating the permanent loss of groundwater storage in the southern <sc>S</sc>an <sc>J</sc>oaquin <sc>V</sc>alley, <sc>C</sc>alifornia. <i>Water Resources Research</i> , 2017, 53, 2133-2148.	1.7	96
10	Sustained Groundwater Loss in California's Central Valley Exacerbated by Intense Drought Periods. <i>Water Resources Research</i> , 2018, 54, 4449-4460.	1.7	95
11	Effect of Salinity on the Dielectric Properties of Geological Materials: Implication for Soil Moisture Detection by Means of Radar Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1674-1688.	2.7	89
12	Cassini SAR, radiometry, scatterometry and altimetry observations of Titan's dune fields. <i>Icarus</i> , 2011, 213, 608-624.	1.1	74
13	Estimates of surface roughness derived from synthetic aperture radar (SAR) data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1992, 30, 382-389.	2.7	66
14	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	66
15	Rock coatings in Hawaii. <i>Bulletin of the Geological Society of America</i> , 1984, 95, 1077.	1.6	59
16	Microwave Penetration and Attenuation in Desert Soil: A Field Experiment with the Shuttle Imaging Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1986, GE-24, 590-594.	2.7	56
17	Seasat's A 25-year legacy of success. <i>Remote Sensing of Environment</i> , 2005, 94, 384-404.	4.6	52
18	Regional geomorphology and history of Titan's Xanadu province. <i>Icarus</i> , 2011, 211, 672-685.	1.1	52

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19	Microwave remote sensing of sea ice in the AIDJEX Main Experiment. <i>Boundary-Layer Meteorology</i> , 1978, 13, 309-337.	1.2	50
20	Geomorphic processes and remote sensing signatures of alluvial fans in the Kun Lun Mountains, China. <i>Journal of Geophysical Research</i> , 1996, 101, 23091-23100.	3.3	48
21	Role of agricultural activity on land subsidence in the San Joaquin Valley, California. <i>Journal of Hydrology</i> , 2019, 569, 462-469.	2.3	48
22	Monitoring Groundwater Change in California's Central Valley Using Sentinel-1 and GRACE Observations. <i>Geosciences (Switzerland)</i> , 2019, 9, 436.	1.0	43
23	Microtopographic evolution of lava flows at Cima Volcanic Field, Mojave Desert, California. <i>Journal of Geophysical Research</i> , 1992, 97, 15171-15179.	3.3	42
24	A New Method for Isolating Elastic From Inelastic Deformation in Aquifer Systems: Application to the San Joaquin Valley, CA. <i>Geophysical Research Letters</i> , 2019, 46, 10800-10809.	1.5	42
25	Terrestrial analogs to Mars: The NRC community decadal report. <i>Planetary and Space Science</i> , 2004, 52, 3-10.	0.9	39
26	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016, 270, 130-161.	1.1	38
27	Remote sensing data of SP Mountain and SP Lava flow in North-Central Arizona. <i>Remote Sensing of Environment</i> , 1980, 9, 149-170.	4.6	35
28	Inference of surface power spectra from inversion of multifrequency polarimetric radar data. <i>Geophysical Research Letters</i> , 1991, 18, 1787-1790.	1.5	34
29	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	34
30	Discovery of a double impact crater in Libya: the astrobleme of Arkenu. <i>Comptes Rendus - Geoscience</i> , 2003, 335, 1059-1069.	0.4	33
31	A Fourier-Based Textural Feature Extraction Procedure. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1986, GE-24, 722-731.	2.7	32
32	Satellite-based monitoring of groundwater depletion in California's Central Valley. <i>Scientific Reports</i> , 2019, 9, 16053.	1.6	32
33	Persistent elastic behavior above a megathrust rupture patch: Nias island, West Sumatra. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
34	Arid land surface characterization with repeat-pass SAR interferometry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000, 38, 776-781.	2.7	30
35	Labyrinth terrain on Titan. <i>Icarus</i> , 2020, 344, 113764.	1.1	29
36	Radar interferometry studies of the Earth's topography. <i>Eos</i> , 1992, 73, 553-553.	0.1	28

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37	Mapping of sea ice and measurement of its drift using aircraft synthetic aperture radar images. <i>Journal of Geophysical Research</i> , 1979, 84, 1827-1835.	3.3	23
38	Discrimination of geologic units in Death Valley using dual frequency and polarization imaging radar data. <i>Geophysical Research Letters</i> , 1978, 5, 889-892.	1.5	21
39	Constraining the physical properties of Titan's empty lake basins using nadir and off-nadir Cassini RADAR backscatter. <i>Icarus</i> , 2016, 270, 57-66.	1.1	19
40	Use of multifrequency, multipolarization shuttle imaging radar for volcano mapping in the Kunlun Mountains of Western China. <i>Remote Sensing of Environment</i> , 1997, 59, 364-374.	4.6	14
41	Model-data fusion of hydrologic simulations and GRACE terrestrial water storage observations to estimate changes in water table depth. <i>Advances in Water Resources</i> , 2019, 128, 13-27.	1.7	14
42	Using Sentinel-1 and GRACE satellite data to monitor the hydrological variations within the Tulare Basin, California. <i>Scientific Reports</i> , 2022, 12, 3867.	1.6	14
43	Study of Hypersaline Deposits and Analysis of Their Signature in Airborne and Spaceborne SAR Data: Example of Death Valley, California. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2581-2598.	2.7	13
44	Modeling the SAR backscatter of linear dunes on Earth and Titan. <i>Icarus</i> , 2014, 230, 208-214.	1.1	11
45	Detection of land degradation with polarimetric SAR. <i>Geophysical Research Letters</i> , 1992, 19, 1587-1590.	1.5	9
46	UAVSAR and Optical Analysis of the Thomas Fire Scar and Montecito Debris Flows: Case Study of Methods for Disaster Response Using Remote Sensing Products. <i>Earth and Space Science</i> , 2018, 5, 339-347.	1.1	8
47	Radar investigations of planetary and terrestrial environments. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	7
48	Exploring morphology, layering and formation history of linear terrestrial dunes from radar observations: Implications for Titan. <i>Remote Sensing of Environment</i> , 2018, 204, 296-307.	4.6	6
49	Mission in the works promised precise global topographic data. <i>Eos</i> , 1995, 76, 225-225.	0.1	4
50	Mapping subsurface geology in Arid Africa using L-band SAR. , 2007, , .		4
51	3.3 Microwave Remote Sensing and Surface Characterization. , 2013, , 43-79.		4
52	The Use of Interferometric Synthetic Aperture Radar (InSAR) in Archaeological Investigations and Cultural Heritage Preservation. , 2006, , 89-102.		2
53	Microwave Remote Sensing and Surface Characterization. , 2013, , 30-71.		2
54	The global topography mission gains momentum. <i>Eos</i> , 1995, 76, 213-213.	0.1	1

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55	Simulation to Evaluate Autonomous Behaviors for Mobile Planetary Surface Science Missions. , 2007, , .		1
56	The green Sahara: Climate change, hydrologic history and human occupation. , 2009, , .		1
57	Integrating Remote Sensing Data Into Geographic Information Systems. Eos, 2011, 92, 154-154.	0.1	1
58	Land Surface Roughness. Encyclopedia of Earth Sciences Series, 2014, , 311-314.	0.1	0
59	Measuring Subsidence in California and Its Impact on Water Conveyance Infrastructure. Springer Remote Sensing/photogrammetry, 2021, , 211-226.	0.4	0