Thomas Farr

List of Publications by Year
in descending order

59 papers	8,712 citations	159585 30 h-index	175258 52 g-index
60 all docs	60 docs citations	60 times ranked	11276 citing authors

#	Article	IF	Citations
1	Using Sentinel-1 and GRACE satellite data to monitor the hydrological variations within the Tulare Basin, California. Scientific Reports, 2022, 12, 3867.	3.3	14
2	Measuring Subsidence in California and Its Impact on Water Conveyance Infrastructure. Springer Remote Sensing/photogrammetry, 2021, , 211-226.	0.4	0
3	Labyrinth terrain on Titan. Icarus, 2020, 344, 113764.	2.5	29
4	A New Method for Isolating Elastic From Inelastic Deformation in Aquifer Systems: Application to the San Joaquin Valley, CA. Geophysical Research Letters, 2019, 46, 10800-10809.	4.0	42
5	Satellite-based monitoring of groundwater depletion in Californiaâ€™s Central Valley. Scientific Reports, 2019, 9, 16053.	3.3	32
6	Titan as Revealed by the Cassini Radar. Space Science Reviews, 2019, 215, 1.	8.1	34
7	Model-data fusion of hydrologic simulations and GRACE terrestrial water storage observations to estimate changes in water table depth. Advances in Water Resources, 2019, 128, 13-27.	3.8	14
8	Monitoring Groundwater Change in Californiaâ€™s Central Valley Using Sentinel-1 and GRACE Observations. Geosciences (Switzerland), 2019, 9, 436.	2.2	43
9	Role of agricultural activity on land subsidence in the San Joaquin Valley, California. Journal of Hydrology, 2019, 569, 462-469.	5.4	48
10	Exploring morphology, layering and formation history of linear terrestrial dunes from radar observations: Implications for Titan. Remote Sensing of Environment, 2018, 204, 296-307.	11.0	6
11	UAVSAR and Optical Analysis of the Thomas Fire Scar and Montecito Debris Flows: Case Study of Methods for Disaster Response Using Remote Sensing Products. Earth and Space Science, 2018, 5, 339-347.	2.6	8
12	Sustained Groundwater Loss in California's Central Valley Exacerbated by Intense Drought Periods. Water Resources Research, 2018, 54, 4449-4460.	4.2	95
13	Estimating the permanent loss of groundwater storage in the southern <scp>S</scp>an <scp>J</scp>oaquin <scp>V</scp>alley, <scp>C</scp>alifornia. Water Resources Research, 2017, 53, 2133-2148.	4.2	96
14	Sustained Water Loss in California's Mountain Ranges During Severe Drought From 2012 to 2015 Inferred From GPS. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,559.	3.4	115
15	Constraining the physical properties of Titanâ€™s empty lake basins using nadir and off-nadir Cassini RADAR backscatter. Icarus, 2016, 270, 57-66.	2.5	19
16	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. Icarus, 2016, 270, 130-161.	2.5	38
17	Modeling the SAR backscatter of linear dunes on Earth and Titan. Icarus, 2014, 230, 208-214.	2.5	11
18	Land Surface Roughness. Encyclopedia of Earth Sciences Series, 2014, , 311-314.	0.1	0

#	Article	IF	Citations
19	3.3 Microwave Remote Sensing and Surface Characterization. , 2013, , 43-79.		4
20	Microwave Remote Sensing and Surface Characterization. , 2013, , 30-71.		2
21	Integrating Remote Sensing Data Into Geographic Information Systems. Eos, 2011, 92, 154-154.	0.1	1
22	Regional geomorphology and history of Titanâ€™s Xanadu province. Icarus, 2011, 211, 672-685.	2.5	52
23	Cassini SAR, radiometry, scatterometry and altimetry observations of Titanâ€™s dune fields. Icarus, 2011, 213, 608-624.	2.5	74
24	Distribution and interplay of geologic processes on Titan from Cassini radar data. Icarus, 2010, 205, 540-558.	2.5	122
25	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. Geophysical Research Letters, 2010, 37, .	4.0	66
26	Linear dunes on Titan and earth: Initial remote sensing comparisons. Geomorphology, 2010, 121, 122-132.	2.6	97
27	The green Sahara: Climate change, hydrologic history and human occupation. , 2009, , .		1
28	Mapping of a major paleodrainage system in eastern Libya using orbital imaging radar: The Kufrah River. Earth and Planetary Science Letters, 2009, 277, 327-333.	4.4	124
29	Study of Hypersaline Deposits and Analysis of Their Signature in Airborne and Spaceborne SAR Data: Example of Death Valley, California. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2581-2598.	6.3	13
30	Effect of Salinity on the Dielectric Properties of Geological Materials: Implication for Soil Moisture Detection by Means of Radar Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1674-1688.	6.3	89
31	Persistent elastic behavior above a megathrust rupture patch: Nias island, West Sumatra. Journal of Geophysical Research, 2008, 113, .	3.3	31
32	Simulation to Evaluate Autonomous Behaviors for Mobile Planetary Surface Science Missions. , 2007, , .		1
33	Mapping subsurface geology in Arid Africa using L-band SAR. , 2007, , .		4
34	The Shuttle Radar Topography Mission. Reviews of Geophysics, 2007, 45, .	23.0	5,113
35	Radar investigations of planetary and terrestrial environments. Journal of Geophysical Research, 2006, 111, .	3.3	7
36	The Use of Interferometric Synthetic Aperture Radar (InSAR) in Archaeological Investigations and Cultural Heritage Preservation. , 2006, , 89-102.		2

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37	Seasatâ€”A 25-year legacy of success. Remote Sensing of Environment, 2005, 94, 384-404.	11.0	52
38	Terrestrial analogs to Mars: The NRC community decadal report. Planetary and Space Science, 2004, 52, 3-10.	1.7	39
39	Discovery of a double impact crater in Libya: the astrobleme of Arkenu. Comptes Rendus - Geoscience, 2003, 335, 1059-1069.	1.2	33
40	The roughness of natural terrain: A planetary and remote sensing perspective. Journal of Geophysical Research, 2001, 106, 32777-32795.	3.3	307
41	Arid land surface characterization with repeat-pass SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 776-781.	6.3	30
42	Shuttle radar topography mission produces a wealth of data. Eos, 2000, 81, 583-585.	0.1	1,011
43	Use of multifrequency, multipolarization shuttle imaging radar for volcano mapping in the Kunlun Mountains of Western China. Remote Sensing of Environment, 1997, 59, 364-374.	11.0	14
44	Geomorphic processes and remote sensing signatures of alluvial fans in the Kun Lun Mountains, China. Journal of Geophysical Research, 1996, 101, 23091-23100.	3.3	48
45	The global topography mission gains momentum. Eos, 1995, 76, 213-213.	0.1	1
46	Mission in the works promised precise global topographic data. Eos, 1995, 76, 225-225.	0.1	4
47	Microtopographic evolution of lava flows at Cima Volcanic Field, Mojave Desert, California. Journal of Geophysical Research, 1992, 97, 15171-15179.	3.3	42
48	Estimates of surface roughness derived from synthetic aperture radar (SAR) data. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 382-389.	6.3	66
49	Radar interferometry studies of the Earth's topography. Eos, 1992, 73, 553-553.	0.1	28
50	Detection of land degradation with polarimetric SAR. Geophysical Research Letters, 1992, 19, 1587-1590.	4.0	9
51	Inference of surface power spectra from inversion of multifrequency polarimetric radar data. Geophysical Research Letters, 1991, 18, 1787-1790.	4.0	34
52	Radar polarimetry: analysis tools and applications. IEEE Transactions on Geoscience and Remote Sensing, 1988, 26, 774-789.	6.3	245
53	A Fourier-Based Textural Feature Extraction Procedure. IEEE Transactions on Geoscience and Remote Sensing, 1986, GE-24, 722-731.	6.3	32
54	Microwave Penetration and Attenuation in Desert Soil: A Field Experiment with the Shuttle Imaging Radar. IEEE Transactions on Geoscience and Remote Sensing, 1986, GE-24, 590-594.	6.3	56

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55	Rock coatings in Hawaii. Bulletin of the Geological Society of America, 1984, 95, 1077.	3.3	59
56	Remote sensing data of SP Mountain and SP Lava flow in North-Central Arizona. Remote Sensing of Environment, 1980, 9, 149-170.	11.0	35
57	Mapping of sea ice and measurement of its drift using aircraft synthetic aperture radar images. Journal of Geophysical Research, 1979, 84, 1827-1835.	3.3	23
58	Microwave remote sensing of sea ice in the AIDJEX Main Experiment. Boundary-Layer Meteorology, 1978, 13, 309-337.	2.3	50
59	Discrimination of geologic units in Death Valley using dual frequency and polarization imaging radar data. Geophysical Research Letters, 1978, 5, 889-892.	4.0	21