

Thomas Farr

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

6,389
citations

27
h-index

60
g-index

60
ext. papers

7,454
ext. citations

5.3
avg, IF

5.12
L-index

#	Paper	IF	Citations
57	The Shuttle Radar Topography Mission. <i>Reviews of Geophysics</i> , 2007 , 45,	23.1	3672
56	Shuttle radar topography mission produces a wealth of data. <i>Eos</i> , 2000 , 81, 583	1.5	761
55	The roughness of natural terrain: A planetary and remote sensing perspective. <i>Journal of Geophysical Research</i> , 2001 , 106, 32777-32795		245
54	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1988 , 26, 774-789	8.1	179
53	Distribution and interplay of geologic processes on Titan from Cassini radar data. <i>Icarus</i> , 2010 , 205, 540-558	5.8	101
52	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	5.3	97
51	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, 10,559-10,585	3.6	75
50	Linear dunes on Titan and earth: Initial remote sensing comparisons. <i>Geomorphology</i> , 2010 , 121, 122-132	4.3	75
49	Estimating the permanent loss of groundwater storage in the southern San Joaquin Valley, California. <i>Water Resources Research</i> , 2017 , 53, 2133-2148	5.4	71
48	Cassini SAR, radiometry, scatterometry and altimetry observations of Titan's dune fields. <i>Icarus</i> , 2011 , 213, 608-624	3.8	69
47	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	8.1	68
46	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	61
45	Sustained Groundwater Loss in California's Central Valley Exacerbated by Intense Drought Periods. <i>Water Resources Research</i> , 2018 , 54, 4449-4460	5.4	56
44	Rock coatings in Hawaii. <i>Bulletin of the Geological Society of America</i> , 1984 , 95, 1077	3.9	52
43	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1992 , 30, 382-389	8.1	50
42	Regional geomorphology and history of Titan's Xanadu province. <i>Icarus</i> , 2011 , 211, 672-685	3.8	49
41	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	8.1	45

40	Microwave remote sensing of sea ice in the AIDJEX Main Experiment. <i>Boundary-Layer Meteorology</i> , 1978 , 13, 309-337	3.4	44
39	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		39
38	Seasat: A 25-year legacy of success. <i>Remote Sensing of Environment</i> , 2005 , 94, 384-404	13.2	36
37	Microtopographic evolution of lava flows at Cima Volcanic Field, Mojave Desert, California. <i>Journal of Geophysical Research</i> , 1992 , 97, 15171		35
36	Discovery of a double impact crater in Libya: the astrobleme of Arkenu. <i>Comptes Rendus - Geoscience</i> , 2003 , 335, 1059-1069	1.4	31
35	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016 , 270, 130-161	3.8	30
34	Terrestrial analogs to Mars: The NRC community decadal report. <i>Planetary and Space Science</i> , 2004 , 52, 3-10	2	30
33	Remote sensing data of SP Mountain and SP Lava flow in North-Central Arizona. <i>Remote Sensing of Environment</i> , 1980 , 9, 149-170	13.2	30
32	Role of agricultural activity on land subsidence in the San Joaquin Valley, California. <i>Journal of Hydrology</i> , 2019 , 569, 462-469	6	30
31	Inference of surface power spectra from inversion of multifrequency polarimetric radar data. <i>Geophysical Research Letters</i> , 1991 , 18, 1787-1790	4.9	28
30	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	4.9	26
29	Monitoring Groundwater Change in California's Central Valley Using Sentinel-1 and GRACE Observations. <i>Geosciences (Switzerland)</i> , 2019 , 9, 436	2.7	25
28	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019 , 215, 1	7.5	24
27	Persistent elastic behavior above a megathrust rupture patch: Nias island, West Sumatra. <i>Journal of Geophysical Research</i> , 2008 , 113,		24
26	Arid land surface characterization with repeat-pass SAR interferometry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000 , 38, 776-781	8.1	22
25	A Fourier-Based Textural Feature Extraction Procedure. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1986 , GE-24, 722-731	8.1	22
24	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		21
23	Radar interferometry studies of the Earth's topography. <i>Eos</i> , 1992 , 73, 553-553	1.5	20

22	Satellite-based monitoring of groundwater depletion in California's Central Valley. <i>Scientific Reports</i> , 2019 , 9, 16053	4.9	18
21	Discrimination of geologic units in Death Valley using dual frequency and polarization imaging radar data. <i>Geophysical Research Letters</i> , 1978 , 5, 889-892	4.9	18
20	Labyrinth terrain on Titan. <i>Icarus</i> , 2020 , 344, 113764	3.8	17
19	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	3.8	15
18	Monitoring Subsidence Associated with Groundwater Dynamics in the Central Valley of California Using Interferometric Radar. <i>Geophysical Monograph Series</i> , 2014 , 397-406	1.1	11
17	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	13.2	11
16	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	8.1	10
15	Modeling the SAR backscatter of linear dunes on Earth and Titan. <i>Icarus</i> , 2014 , 230, 208-214	3.8	9
14	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	4.7	6
13	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	13.2	5
12	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	2.7	5
11	Mission in the works promises precise global topographic data. <i>Eos</i> , 1995 , 76, 225-225	1.5	4
10	Detection of land degradation with polarimetric SAR. <i>Geophysical Research Letters</i> , 1992 , 19, 1587-1590	4.9	4
9	Mapping subsurface geology in Arid Africa using L-band SAR 2007 ,		3
8	3.3 Microwave Remote Sensing and Surface Characterization 2013 , 43-79		2
7	Radar investigations of planetary and terrestrial environments. <i>Journal of Geophysical Research</i> , 2006 , 111,		2
6	The Use of Interferometric Synthetic Aperture Radar (InSAR) in Archaeological Investigations and Cultural Heritage Preservation 2006 , 89-102		2
5	Integrating Remote Sensing Data Into Geographic Information Systems. <i>Eos</i> , 2011 , 92, 154-154	1.5	1

4	The global topography mission gains momentum. <i>Eos</i> , 1995 , 76, 213-213	1.5	1
3	Using Sentinel-1 and GRACE satellite data to monitor the hydrological variations within the Tulare Basin, California.. <i>Scientific Reports</i> , 2022 , 12, 3867	4.9	1
2	Microwave Remote Sensing and Surface Characterization 2013 , 30-71		0
1	Measuring Subsidence in California and Its Impact on Water Conveyance Infrastructure. <i>Springer Remote Sensing/photogrammetry</i> , 2021 , 211-226	0.2	