## Thomas J Jackson

List of Publications by Year in descending order

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87 papers

9,476 citations

57758 44 h-index 80 g-index

88 all docs 88 docs citations 88 times ranked 5045 citing authors

#	Article	IF	CITATIONS
1	Impact of random and periodic surface roughness on P- and L-band radiometry. Remote Sensing of Environment, 2022, 269, 112825.	11.0	8
2	Validation of Soil Moisture Data Products From the NASA SMAP Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 364-392.	4.9	62
3	A global 1â€km downscaled SMAP soil moisture product based on thermal inertia theory. Vadose Zone Journal, 2022, 21, .	2.2	26
4	Evaluation of the tau-omega model over bare and wheat-covered flat and periodic soil surfaces at Pand L-band. Remote Sensing of Environment, 2022, 273, 112960.	11.0	8
5	Toward P-Band Passive Microwave Sensing of Soil Moisture. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 504-508.	3.1	14
6	Validation of SMAP L2 passive-only soil moisture products using upscaled in situ measurements collected in Twente, the Netherlands. Hydrology and Earth System Sciences, 2021, 25, 473-495.	4.9	10
7	The Soil Moisture Active Passive Experiments: Validation of the SMAP Products in Australia. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2922-2939.	6.3	19
8	Soil moisture retrieval over a site of intensive agricultural production using airborne radiometer data. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102287.	2.8	3
9	Evaluation and validation of a high spatial resolution satellite soil moisture product over the Continental United States. Journal of Hydrology, 2020, 588, 125043.	5.4	32
10	Effect of Rainfall Events on SMAP Radiometer-Based Soil Moisture Accuracy Using Core Validation Sites. Journal of Hydrometeorology, 2020, 21, 255-264.	1.9	9
11	Comprehensive analysis of alternative downscaled soil moisture products. Remote Sensing of Environment, 2020, 239, 111586.	11.0	52
12	Multiscale Surface Roughness for Improved Soil Moisture Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5264-5276.	6.3	15
13	Soil moisture experiment in the Luan River supporting new satellite mission opportunities. Remote Sensing of Environment, 2020, 240, 111680.	11.0	120
14	Validation of SMAP Soil Moisture Products Using Ground-Based Observations for the Paddy Dominated Tropical Region of India. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8479-8491.	6.3	25
15	Passive/active microwave soil moisture change disaggregation using SMAPVEX12 data. Journal of Hydrology, 2019, 574, 1085-1098.	5.4	29
16	Comparison of high-resolution airborne soil moisture retrievals to SMAP soil moisture during the SMAP validation experiment 2016 (SMAPVEX16). Remote Sensing of Environment, 2019, 227, 137-150.	11.0	45
17	Soil Moisture Active/Passive (SMAP) L-Band Microwave Radiometer Post-Launch Calibration Upgrade. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1647-1657.	4.9	14
18	The Texas Soil Observation Network: A Comprehensive Soil Moisture Dataset for Remote Sensing and Land Surface Model Validation. Vadose Zone Journal, 2019, 18, 1-20.	2.2	28

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19	Estimating vegetation water content during the Soil Moisture Active Passive Validation Experiment 2016. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	19
20	Evaluation of the Tau–Omega Model for Passive Microwave Soil Moisture Retrieval Using SMAPEx Datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 888-895.	4.9	12
21	GCOM-W AMSR2 Soil Moisture Product Validation Using Core Validation Sites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 209-219.	4.9	44
22	The SMAP mission combined active-passive soil moisture product at 9â€km and 3â€km spatial resolutions. Remote Sensing of Environment, 2018, 211, 204-217.	11.0	59
23	Development and assessment of the SMAP enhanced passive soil moisture product. Remote Sensing of Environment, 2018, 204, 931-941.	11.0	297
24	Assessing SMAP Soil Moisture Scaling and Retrieval in the Carman (Canada) Study Site. Vadose Zone Journal, 2018, 17, 1-14.	2.2	59
25	AMSR2 Soil Moisture Downscaling Using Temperature and Vegetation Data. Remote Sensing, 2018, 10, 1575.	4.0	38
26	Downscaling of SMAP Soil Moisture Using Land Surface Temperature and Vegetation Data. Vadose Zone Journal, 2018, 17, 1-15.	2.2	57
27	Application of Triple Collocation in Ground-Based Validation of Soil Moisture Active/Passive (SMAP) Level 2 Data Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 489-502.	4.9	115
28	A Comparative Study of the SMAP Passive Soil Moisture Product With Existing Satellite-Based Soil Moisture Products. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2959-2971.	6.3	108
29	Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Active–Passive Satellite and Evaluation at Core Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1897-1914.	6.3	64
30	Validation and scaling of soil moisture in a semi-arid environment: SMAP validation experiment 2015 (SMAPVEX15). Remote Sensing of Environment, 2017, 196, 101-112.	11.0	65
31	Validation of SMAP soil moisture for the SMAPVEX15 field campaign using a hyperâ€resolution model. Water Resources Research, 2017, 53, 3013-3028.	4.2	47
32	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645.	1.9	196
33	Modeling L-Band Synthetic Aperture Radar Data Through Dielectric Changes in Soil Moisture and Vegetation Over Shrublands. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4753-4762.	4.9	16
34	Spatial Downscaling of SMAP Soil Moisture Using MODIS Land Surface Temperature and NDVI During SMAPVEX15. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2107-2111.	3.1	73
35	Towards validation of SMAP: SMAPEX-4 & Samp; -5., 2016, , .		2
36	Combined active and Passive microwave remote sensing of Soil Moisture for vegetated surfaces at L-band. , $2016,  ,  .$		0

#	Article	IF	Citations
37	Intercomparison of SMAP, SMOS and Aquarius L-band brightness temperature observations. , 2016, , .		3
38	Calibration and validation of the SMAP L-band radiometer. , 2016, , .		1
39	Retrieving soil moisture for non-forested areas using PALS radiometer measurements in SMAPVEX12 field campaign. Remote Sensing of Environment, 2016, 184, 86-100.	11.0	25
40	On the identification of representative in situ soil moisture monitoring stations for the validation of SMAP soil moisture products in Australia. Journal of Hydrology, 2016, 537, 367-381.	5.4	52
41	Active–Passive Soil Moisture Retrievals During the SMAP Validation Experiment 2012. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 475-479.	3.1	12
42	First Evaluation of Aquarius Soil Moisture Products Using <i>In Situ</i> Observations and GLDAS Model Simulations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5511-5525.	4.9	31
43	Comparison of Airborne Passive and Active L-Band System (PALS) Brightness Temperature Measurements to SMOS Observations During the SMAP Validation Experiment 2012 (SMAPVEX12). IEEE Geoscience and Remote Sensing Letters, 2015, 12, 801-805.	3.1	28
44	Global Soil Moisture From the Aquarius/SAC-D Satellite: Description and Initial Assessment. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 923-927.	3.1	96
45	Optical Sensing of Vegetation Water Content: A Synthesis Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1456-1464.	4.9	46
46	The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Prelaunch Calibration and Validation of the SMAP Soil Moisture Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2784-2801.	6.3	206
47	Clarifications on the "Comparison Between SMOS, VUA, ASCAT, and ECMWF Soil Moisture Products Over Four Watersheds in U.S.― IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1901-1906.	6.3	35
48	Comparison Between SMOS, VUA, ASCAT, and ECMWF Soil Moisture Products Over Four Watersheds in U.S IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1562-1571.	6.3	88
49	The Soil Moisture Active Passive Experiments (SMAPEx): Toward Soil Moisture Retrieval From the SMAP Mission. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 490-507.	6.3	154
50	Canadian Experiment for Soil Moisture in 2010 (CanEx-SM10): Overview and Preliminary Results. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 347-363.	6.3	71
51	Passive Microwave Soil Moisture Downscaling Using Vegetation Index and Skin Surface Temperature. Vadose Zone Journal, 2013, 12, 1-19.	2.2	79
52	Radar Vegetation Index for Estimating the Vegetation Water Content of Rice and Soybean. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 564-568.	3.1	144
53	Long term analysis of PALS soil moisture campaign measurements for global soil moisture algorithm development. Remote Sensing of Environment, 2012, 121, 309-322.	11.0	41
54	Validation of Soil Moisture and Ocean Salinity (SMOS) Soil Moisture Over Watershed Networks in the U.S IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1530-1543.	6.3	313

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55	A New International Network for in Situ Soil Moisture Data. Eos, 2011, 92, 141-142.	0.1	54
56	The Contributions of Precipitation and Soil Moisture Observations to the Skill of Soil Moisture Estimates in a Land Data Assimilation System. Journal of Hydrometeorology, 2011, 12, 750-765.	1.9	135
57	Validation of AMSR-E soil moisture using L-band airborne radiometer data from National Airborne Field Experiment 2006. Remote Sensing of Environment, 2011, 115, 2096-2103.	11.0	43
58	Comparison of vegetation water contents derived from shortwave-infrared and passive-microwave sensors over central lowa. Remote Sensing of Environment, 2011, 115, 2376-2383.	11.0	56
59	WindSat Global Soil Moisture Retrieval and Validation. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2224-2241.	6.3	120
60	Validation of Advanced Microwave Scanning Radiometer Soil Moisture Products. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 4256-4272.	6.3	489
61	Soil Moisture Retrieval Using a Two-Dimensional L-Band Synthetic Aperture Radiometer in a Semiarid Environment. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 4273-4284.	6.3	11
62	The Soil Moisture Active Passive (SMAP) Mission. Proceedings of the IEEE, 2010, 98, 704-716.	21.3	2,546
63	Evaluating the Utility of Remotely Sensed Soil Moisture Retrievals for Operational Agricultural Drought Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 57-66.	4.9	299
64	Passive Polarimetric Microwave Signatures Observed Over Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1059-1075.	6.3	24
65	L-Band Radar Estimation of Forest Attenuation for Active/Passive Soil Moisture Inversion. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3026-3040.	6.3	25
66	Assessing the SMOS Soil Moisture Retrieval Parameters With High-Resolution NAFE'06 Data. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 635-639.	3.1	25
67	Combined Passive and Active Microwave Observations of Soil Moisture During CLASIC. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 644-648.	3.1	57
68	Planning for a Soil Moisture Satellite Mission: SMAP Algorithms & Cal/Val Workshop; Oxnard, California, 9-11 June 2009. Eos, 2009, 90, 300-300.	0.1	0
69	Role of Passive Microwave Remote Sensing in Improving Flood Forecasts. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 112-116.	3.1	47
70	The NAFE'06 data set: Towards soil moisture retrieval at intermediate resolution. Advances in Water Resources, 2008, 31, 1444-1455.	3.8	74
71	Temporal persistence and stability of surface soil moisture in a semi-arid watershed. Remote Sensing of Environment, 2008, 112, 304-313.	11.0	200
72	Field observations of soil moisture variability across scales. Water Resources Research, 2008, 44, .	4.2	316

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73	Reply to comment by H. Vereecken et al. on "Field observations of soil moisture variability across scalesâ€. Water Resources Research, 2008, 44, .	4.2	56
74	Passive and Active L-Band System and Observations during the 2007 CLASIC Campaign. , 2008, , .		12
75	Improving Spaceborne Radiometer Soil Moisture Retrievals With Alternative Aggregation Rules for Ancillary Parameters in Highly Heterogeneous Vegetated Areas. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 261-265.	3.1	20
76	Observations of Land Surface Passive Polarimetry With the WindSat Instrument. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2019-2028.	6.3	15
77	Initial Images of the Synthetic Aperture Radiometer 2D-STAR. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3623-3632.	6.3	27
78	The USDA Natural Resources Conservation Service Soil Climate Analysis Network (SCAN). Journal of Atmospheric and Oceanic Technology, 2007, 24, 2073-2077.	1.3	364
79	Temporal stability of surface soil moisture in the Little Washita River watershed and its applications in satellite soil moisture product validation. Journal of Hydrology, 2006, 323, 168-177.	5.4	186
80	Soil moisture mapping and AMSR-E validation using the PSR in SMEXO2. Remote Sensing of Environment, 2006, 103, 127-139.	11.0	151
81	Watershed scale temporal and spatial stability of soil moisture and its role in validating satellite estimates. Remote Sensing of Environment, 2004, 92, 427-435.	11.0	239
82	Jackson receives 2003 Hydrology Section Award. Eos, 2004, 85, 117.	0.1	0
83	III. Measuring surface soil moisture using passive microwave remote sensing. Hydrological Processes, 1993, 7, 139-152.	2.6	603
84	Hydrology of disasters. Eos, 1991, 72, 196-196.	0.1	0
85	Survey of applications of passive microwave remote sensing for soil moisture in the U.S.S.R Eos, 1982, 63, 497-499.	0.1	7
86	Radiometric measurements over bare and vegetated fields at 1.4-GHz and 5-GHz frequencies. Remote Sensing of Environment, 1982, 12, 295-311.	11.0	31
87	SCS URBAN CURVE NUMBERS FROM A LANDSAT DATA BASE. Journal of the American Water Resources Association, 1981, 17, 857-862.	2.4	7