Alireza Tabatabaeenejad

List of Publications by Year
in descending order

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Version: 2024-02-01

41	569	840776 11	940533 16
papers	citations	h-index	g-index

42	42	42	574
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Sensitivity of North American Terrestrial Carbon Fluxes to Spatial and Temporal Variation in Soil Moisture: An Analysis Using Radarâ€Derived Estimates of Rootâ€Zone Soil Moisture. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3208-3231.	3.0	111
2	P-Band Radar Retrieval of Subsurface Soil Moisture Profile as a Second-Order Polynomial: First AirMOSS Results. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 645-658.	6.3	107
3	Inversion of Subsurface Properties of Layered Dielectric Structures With Random Slightly Rough Interfaces Using the Method of Simulated Annealing. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2035-2046.	6.3	43
4	Advancing NASAâ€™s AirMOSS P-Band Radar Root Zone Soil Moisture Retrieval Algorithm via Incorporation of Richardsâ€™ Equation. Remote Sensing, 2017, 9, 17.	4.0	41
5	Retrieval of Permafrost Active Layer Properties Using Time-Series P-Band Radar Observations. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6037-6054.	6.3	40
6	Active layer thickness as a function of soil water content. Environmental Research Letters, 2021, 16, 055028.	5.2	35
7	Coherent Scattering of Electromagnetic Waves From Two-Layer Rough Surfaces Within the Kirchhoff Regime. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3943-3953.	6.3	32
8	Study of Validity Region of Small Perturbation Method for Two-Layer Rough Surfaces. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 319-323.	3.1	26
9	Potential of L-Band Radar for Retrieval of Canopy and Subcanopy Parameters of Boreal Forests. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2150-2160.	6.3	21
10	Retrieving Root-Zone Soil Moisture Profile From P-Band Radar via Hybrid Global and Local Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5400-5408.	6.3	18
11	Radar Retrieval of Surface and Deep Soil Moisture and Effect of Moisture Profile on Inversion Accuracy. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 478-482.	3.1	12
12	Assessment and Validation of AirMOSS P-Band Root-Zone Soil Moisture Products. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6181-6196.	6.3	11
13	Spatial and Temporal Variability of Root-Zone Soil Moisture Acquired From Hydrologic Modeling and AirMOSS P-Band Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4578-4590.	4.9	10
14	A model to characterize soil moisture and organic matter profiles in the permafrost active layer in support of radar remote sensing in Alaskan Arctic tundra. Environmental Research Letters, 2022, 17, 025011.	5.2	8
15	A time-series active layer thickness retrieval algorithm using P- and L-band SAR observations. , 2016, , .		6
16	Retrieval of permafrost active layer properties using P-band airmoss and L-band UAVSAR data. , 2017, , .		6
17	Remote Sensing of Complex Permittivity and Penetration Depth of Soils Using P-Band SAR Polarimetry. Remote Sensing, 2022, 14, 2755.	4.0	6
18	A generalized radar scattering model for multispecies forests with multilayer subsurface soil. , 2012, , .		5

#	Article	IF	Citations
19	Modeling and Retrieving Soil Moisture and Organic Matter Profiles in the Active Layer of Permafrost Soils From P-Band Radar Observations. , 2019, , .		5
20	A Versatile and Shelf-Stable Dielectric Coupling Medium for Microwave Imaging. IEEE Transactions on Biomedical Engineering, 2022, 69, 2701-2712.	4.2	5
21	Assessment of retrieval errors of AirMOSS root-zone soil moisture products. , 2016, , .		3
22	Airborne Microwave Observatory of Subcanopy and Subsurface radar retrieval of root zone soil moisture: Preliminary results. , 2013, , .		2
23	Semi-analytical soil moisture retrieval using PolSAR imagery. , 2017, , .		2
24	Experimental Investigation of the Coupled Hydraulic and Low-Frequency Dielectric Behavior of the Arctic Permafrost Active Layer Organic Soil. , 2019, , .		2
25	Comparison of Gaussian and Rayleigh noise models in inversion of subsurface parameters of layered rough surfaces using simulated annealing. , 2009, , .		1
26	Retrieval of soil moisture and vegetation canopy parameters with L-band radar for a range of boreal forests. , 2011, , .		1
27	ADvances in radar forward and inverse scattering models of subsurface and subcanopy soil moisture and their role for the AirMOSS mission. , 2012, , .		1
28	Retrieval of AirMOSS root-zone soil moisture profile with a richards' equation-based approach. , 2017, , .		1
29	P-Band Radar Retrieval of Permafrost Active Layer Properties: Time-Series Approach and Validation with In-Situ Observations. , 2018, , .		1
30	Analysis of Permafrost Active Layer Soil Heterogeneity in Support of Radar Retrievals. , 2018, , .		1
31	Retrieval of Subsurface Properties of Layered Dielectric Structures Using Hybrid Global and Local Optimization. , 2019, , .		1
32	Retrieval of Subsurface Soil Moisture Profiles from L-Band and P-Band Reflectometry. , 2019, , .		1
33	Complex Permittivity and Penetration Depth Estimation from Airborne P-Band SAR Data Applying a Hybrid Decomposition Method. , 2021, , .		1
34	Mapping Tree Canopy Cover and Canopy Height with L-Band SAR Using LiDAR Data and Random Forests. , 2020, , .		1
35	Inversion of a layered rough surface model: maximizing the number of retrievable parameters for the design of future subsurface sensing radar systems. , 2007, , .		0
36	Sensitivity Analysis of the Simulated Annealing Method to Measurement Noise for the Inversion of Subsurface Parameters of Two Layer Rough Surfaces. , 2008, , .		0

#	Article	IF	Citations
37	Recent theoretical and experimental advances in electromagnetic sensing of subsurface profiles. , 2010, , .		0
38	Electromagnetic scattering models of layered random rough surfaces and their role in addressing some of the grand challenges of climate research. , 2011, , .		0
39	Coherent scattering of electromagnetic waves from layered rough surfaces within the Kirchhoff regime. , 2013, , .		0
40	Scaling analysis of heterogneity in support of soil moisture retrieval at landscape level for low-frequency radars. , 2013, , .		0
41	Role of computational EM in radar remote sensing of water resources. , 2017, , .		0