Morteza Sadeghi

List of Publications by Year
in descending order

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33	1,419	471509	395702
papers	citations	17 h-index	33 g-index

35	35	35	1548
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ground, Proximal, and Satellite Remote Sensing of Soil Moisture. Reviews of Geophysics, 2019, 57, 530-616.	23.0	307
2	The optical trapezoid model: A novel approach to remote sensing of soil moisture applied to Sentinel-2 and Landsat-8 observations. Remote Sensing of Environment, 2017, 198, 52-68.	11.0	251
3	A linear physically-based model for remote sensing of soil moisture using short wave infrared bands. Remote Sensing of Environment, 2015, 164, 66-76.	11.0	173
4	Mapping soil moisture with the OPtical TRApezoid Model (OPTRAM) based on long-term MODIS observations. Remote Sensing of Environment, 2018, 211, 425-440.	11.0	105
5	A statistical framework for estimating air temperature using <scp>MODIS</scp> land surface temperature data. International Journal of Climatology, 2017, 37, 1181-1194.	3.5	80
6	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
7	Column-scale unsaturated hydraulic conductivity estimates in coarse-textured homogeneous and layered soils derived under steady-state evaporation from a water table. Journal of Hydrology, 2014, 519, 1238-1248.	5.4	38
8	Particle size effects on soil reflectance explained by an analytical radiative transfer model. Remote Sensing of Environment, 2018, 210, 375-386.	11.0	37
9	Derivation of an Explicit Form of the Percolationâ€Based Effectiveâ€Medium Approximation for Thermal Conductivity of Partially Saturated Soils. Water Resources Research, 2018, 54, 1389-1399.	4.2	36
10	An analytical model for estimation of land surface net water flux from near-surface soil moisture observations. Journal of Hydrology, 2019, 570, 26-37.	5.4	35
11	A novel analytical solution to steadyâ€state evaporation from porous media. Water Resources Research, 2012, 48, .	4.2	34
12	Microwave retrievals of soil moisture and vegetation optical depth with improved resolution using a combined constrained inversion algorithm: Application for SMAP satellite. Remote Sensing of Environment, 2020, 239, 111662.	11.0	34
13	Global Estimates of Land Surface Water Fluxes from SMOS and SMAP Satellite Soil Moisture Data. Journal of Hydrometeorology, 2020, 21, 241-253.	1.9	27
14	A New Optical Remote Sensing Technique for High-Resolution Mapping of Soil Moisture. Frontiers in Big Data, 2019, 2, 37.	2.9	26
15	A TDR Array Probe for Monitoring Nearâ€Surface Soil Moisture Distribution. Vadose Zone Journal, 2017, 16, 1-8.	2.2	25
16	Retrieving global surface soil moisture from GRACE satellite gravity data. Journal of Hydrology, 2020, 584, 124717.	5.4	24
17	Reappraisal of SMAP inversion algorithms for soil moisture and vegetation optical depth. Remote Sensing of Environment, 2021, 264, 112627.	11.0	20
18	Information depth of NIR/SWIR soil reflectance spectroscopy. Remote Sensing of Environment, 2021, 256, 112315.	11.0	18

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19	A critical evaluation of the Miller and Miller similar media theory for application to natural soils. Water Resources Research, 2016, 52, 3829-3846.	4.2	13
20	Hydraulic conductivity of stratified unsaturated soils: Effects of random variability and layering. Journal of Hydrology, 2017, 546, 81-89.	5.4	13
21	Scaling to generalize a single solution of Richards' equation for soil water redistribution. Scientia Agricola, 2011, 68, 582-591.	1.2	12
22	A temporal polarization ratio algorithm for calibration-free retrieval of soil moisture at L-band. Remote Sensing of Environment, 2020, 249, 112019.	11.0	10
23	Scaled Solutions to Coupled Soilâ€Water Flow and Solute Transport during the Redistribution Process. Vadose Zone Journal, 2012, 11, vzj2012.0023.	2.2	9
24	A Spatially Constrained Multichannel Algorithm for Inversion of a First-Order Microwave Emission Model at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8134-8146.	6.3	9
25	A statistical framework for estimating air temperature using MODIS land surface temperature data. International Journal of Climatology, 2017, 37, 1181-1194.	3.5	6
26	Reply to comments on â€œColumn-scale unsaturated hydraulic conductivity estimates in coarse-textured homogeneous and layered soils derived under steady-state evaporation from a water tableâ€•[J. Hydrol. 519 (2014), 1238â€“1248]. Journal of Hydrology, 2015, 529, 1277-1281.	5.4	5
27	Highâ€Resolution Shortwave Infrared Imaging of Water Infiltration into Dry Soil. Vadose Zone Journal, 2017, 16, 1-10.	2.2	5
28	A new mathematical formulation for remote sensing of soil moisture based on the Red-NIR space. International Journal of Remote Sensing, 2020, 41, 8034-8047.	2.9	5
29	Towards new soil water flow equations using physicsâ€constrained machine learning. Vadose Zone Journal, 2021, 20, e20136.	2.2	5
30	Stone Content Influence on Land Surface Model Simulation of Soil Moisture and Evapotranspiration at Reynolds Creek Watershed. Journal of Hydrometeorology, 2020, 21, 1889-1904.	1.9	4
31	The feasibility of shortwave infrared imaging and inverse numerical modeling for rapid estimation of soil hydraulic properties. Vadose Zone Journal, 2021, 20, e20089.	2.2	3
32	Estimating soil water flux from single-depth soil moisture data. Journal of Hydrology, 2022, 610, 127999.	5.4	3
33	Comment on â€œA model for soil surface evaporation based on Campbellâ€™s retention curveâ€•by G. Zarei, M. Homaee, A.M. Liaghat, A.H. Hoorfar. Journal of Hydrology, 2015, 525, 486-488.	5.4	2