

Norman Wagner

List of Publications by Year in descending order

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46
papers

739
citations

567281

15
h-index

552781

26
g-index

48
all docs

48
docs citations

48
times ranked

487
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of frequency- and temperature-dependent electrical properties of water-saturated clays using spectral induced polarization and network analyzer technique. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110653.	5.0	4
2	Multiple open ended probe for spatio-temporal dielectric spectroscopy: Application to evaporative dewatering. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108521.	5.0	5
3	Analysis of Interfacial Water in Clay by High Frequency Dielectric Relaxation Spectroscopy. , 2021, , .		0
4	Impact of the cation exchange capacity on dielectric relaxation spectra of water saturated clays. , 2021, , .		0
5	Broadband Dielectric Spectroscopy with Coaxial Transmission Line Technique - A new inversion approach. , 2021, , .		2
6	Coupled hydraulic, mechanical and dielectric investigations on kaolin. Engineering Geology, 2021, 294, 106352.	6.3	9
7	On Reconstructing the Soil Shrinkage Characteristic Curve by Dielectric Spectroscopy. , 2019, , .		1
8	A large coaxial reflection cell for broadband dielectric characterization of coarse-grained materials. Measurement Science and Technology, 2018, 29, 015602.	2.6	12
9	Spatial Retrieval of Broadband Dielectric Spectra. Sensors, 2018, 18, 2780.	3.8	6
10	Electromagnetic Characterization of Coarse-Grained Soils with a One Port Large Coaxial Cell. , 2018, , .		2
11	Dielectric Spectra Reconstruction of Layered Multi-Phase Soil. , 2018, , .		0
12	A New Broadband Dielectric Model for Simultaneous Determination of Water Saturation and Porosity. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4702-4713.	6.3	27
13	Experimental investigation of the dielectric properties of soil under hydraulic loading. Measurement Science and Technology, 2017, 28, 044001.	2.6	7
14	Broadband electromagnetic analysis of compacted kaolin. Measurement Science and Technology, 2017, 28, 014016.	2.6	19
15	Ultra-broad-band electrical spectroscopy of soils and sedimentsâ€™ a combined permittivity and conductivity model. Geophysical Journal International, 2017, 210, 1360-1373.	2.4	47
16	Electromagnetic techniques in geoenvironmental engineering. Environmental Geotechnics, 2017, 4, 3-8.	2.3	7
17	Thermal and dielectric behaviour of fine-grained soils. Environmental Geotechnics, 2017, 4, 79-93.	2.3	13
18	Error Analysis of Clay-Rock Water Content Estimation with Broadband High-Frequency Electromagnetic Sensorsâ€™ Air Gap Effect. Sensors, 2016, 16, 554.	3.8	20

#	ARTICLE	IF	CITATIONS
19	Dielectric measurement method for real-time monitoring of initial hardening of backfill materials used for underground construction. <i>Journal of Geophysics and Engineering</i> , 2016, 13, S19-S27.	1.4	8
20	Radio to microwave dielectric characterisation of constitutive electromagnetic soil properties using vector network analyses. <i>Journal of Geophysics and Engineering</i> , 2016, 13, S28-S38.	1.4	10
21	Spectral Decomposition of Soil Electrical and Dielectric Losses and Prediction of In-Situ GPR Performance. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 212-220.	4.9	24
22	A cylindrical guarded capacitor for spectral permittivity measurements of hard rock samples in the MHz-range. <i>Measurement Science and Technology</i> , 2015, 26, 105902.	2.6	1
23	3D-FEM modeling of F/TDR sensors for clay-rock water content measurement in combination with broadband dielectric spectroscopy. , 2015, , .		1
24	Frequency-dependent attenuation analysis in soils using broadband dielectric spectroscopy and TDR. , 2014, , .		0
25	Non-destructive coaxial transmission line measurements for dielectric soil characterization. , 2014, , .		5
26	Numerical 3-D FEM and Experimental Analysis of the Open-Ended Coaxial Line Technique for Microwave Dielectric Spectroscopy on Soil. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 880-893.	6.3	76
27	Spatial Time Domain Reflectometry (spatial TDR) in geo-environmental engineering. , 2014, , .		2
28	Estimation of the Soil Water Characteristics from dielectric relaxation spectra. , 2014, , .		5
29	Thermohaline energy geo-storage: evaluation of fluid-fluid layers and fluid-rock salt interaction. <i>Geotechnique Letters</i> , 2014, 4, 132-138.	1.2	3
30	Experimental study on the relationship of mechanic and hydraulic state variables, and the dielectric properties of clays. , 2014, , 247-253.		4
31	Supercooled interfacial water in fine-grained soils probed by dielectric spectroscopy. <i>Cryosphere</i> , 2013, 7, 1839-1855.	3.9	15
32	Dielectric relaxation behavior of Callovo-Oxfordian clay rock: A hydraulic-mechanical-electromagnetic coupling approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4729-4744.	3.4	42
33	Prediction of GPR Performance in Soils Using Broadband Dielectric Spectroscopy. , 2013, , .		9
34	Simultaneous determination of the dielectric relaxation behavior and soilwater characteristic curve of undisturbed soil samples. , 2012, , .		3
35	Spatial time domain reflectometry for monitoring of the hydrological water balance at a lysimeter test site in Thuringia/Germany. , 2012, , .		0
36	Permittivity of ice at radio frequencies: Part I. Coaxial transmission line cell. <i>Cold Regions Science and Technology</i> , 2012, 82, 56-67.	3.5	16

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37	A new technique for measuring broadband dielectric spectra of undisturbed soil samples. European Journal of Soil Science, 2012, 63, 224-238.	3.9	39
38	Permittivity of ice at radio frequencies: Part II. Artificial and natural polycrystalline ice. Cold Regions Science and Technology, 2012, 83-84, 13-19.	3.5	22
39	Frequency-dependant dielectric parameters of steel fiber reinforced concrete. , 2012, , .		2
40	Experimental Investigations on the Frequency- and Temperature-Dependent Dielectric Material Properties of Soil. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2518-2530.	6.3	107
41	On the relationship between matric potential and dielectric properties of organic free soils: a sensitivity study. Canadian Geotechnical Journal, 2009, 46, 1202-1215.	2.8	46
42	Spatial time domain reflectometry and its application for the measurement of water content distributions along flat ribbon cables in a full-scale levee model. Water Resources Research, 2009, 45, .	4.2	56
43	Spatial Time Domain Reflectometry (Spatial TDR) – On the use in geohydraulics and geotechnics. , 2008, , 189-195.		1
44	Bestimmung von Feuchte- und Dichteverteilungen mit TDR-Sensoren (Determination of Moisture and Density Distributions with TDR Sensors) / Überlock 10 T	0.7	4
45	Determination of the spatial TDR-sensor characteristics in strong dispersive subsoil using 3D-FEM frequency domain simulations in combination with microwave dielectric spectroscopy. Measurement Science and Technology, 2007, 18, 1137-1146.	2.6	34
46	TDR measurements and simulations in high lossy bentonite materials. Measurement Science and Technology, 2007, 18, 1118-1136.	2.6	23