

# Timo Heimovaara

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,651  
citations

430442

18  
h-index

360668

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1243  
citing authors

#	ARTICLE	IF	CITATIONS
1	SPATIAL VARIABILITY OF GAS COMPOSITION AND FLOW IN A LANDFILL UNDER IN-SITU AERATION. <i>Detritus</i> , 2022, , 104-113.	0.4	2
2	Organic matter pools in sediments of the tidal Elbe river. <i>Limnologica</i> , 2022, 96, 125997.	0.7	6
3	Optimizing landfill aeration strategy with a 3-D multiphase model. <i>Waste Management</i> , 2020, 102, 499-509.	3.7	3
4	Spatial variability of organic matter degradability in tidal Elbe sediments. <i>Journal of Soils and Sediments</i> , 2020, 20, 2573-2587.	1.5	14
5	Do CSIA data from aquifers inform on natural degradation of chlorinated ethenes in aquitards?. <i>Journal of Contaminant Hydrology</i> , 2019, 226, 103520.	1.6	13
6	Applying aluminum-organic matter precipitates to reduce soil permeability in-situ: A field and modeling study. <i>Science of the Total Environment</i> , 2019, 662, 99-109.	3.9	5
7	Applying MICP by denitrification in soils: a process analysis. <i>Environmental Geotechnics</i> , 2018, 5, 79-93.	1.3	58
8	Theoretical analysis of municipal solid waste treatment by leachate recirculation under anaerobic and aerobic conditions. <i>Waste Management</i> , 2018, 71, 246-254.	3.7	17
9	Variation in the availability of metals in surface water, an evaluation based on the dissolved, the freely dissolved and Biotic Ligand Model bioavailable concentration. <i>Catena</i> , 2018, 166, 260-270.	2.2	6
10	Quantification of soil water retention parameters using multi-section TDR-waveform analysis. <i>Journal of Hydrology</i> , 2017, 549, 404-415.	2.3	4
11	Waste barriers in environmental geotechnics. <i>Environmental Geotechnics</i> , 2017, 4, 390-392.	1.3	10
12	A toolbox to find the best mechanistic model to predict the behavior of environmental systems. <i>Environmental Modelling and Software</i> , 2016, 83, 344-355.	1.9	7
13	Wet and gassy zones in a municipal landfill from P- and S-wave velocity fields. <i>Geophysics</i> , 2016, 81, EN75-EN86.	1.4	10
14	Characterization of a heterogeneous landfill using seismic and electrical resistivity data. <i>Geophysics</i> , 2015, 80, EN13-EN25.	1.4	36
15	Quantitative inverse modelling of a cylindrical object in the laboratory using ERT: An error analysis. <i>Journal of Applied Geophysics</i> , 2015, 114, 101-115.	0.9	4
16	Biofilm development and the dynamics of preferential flow paths in porous media. <i>Biofouling</i> , 2013, 29, 1069-1086.	0.8	60
17	Imaging scatterers in landfills using seismic interferometry. <i>Geophysics</i> , 2013, 78, EN107-EN116.	1.4	12
18	Sensitivity of Seismic Interferometry and Conventional Reflection Seismics at a Landfil to Processing and Survey Errors. , 2013, , .		1

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19	Nonequilibrium capillarity effects in two-phase flow through porous media at different scales. <i>Water Resources Research</i> , 2011, 47, .	1.7	62
20	Unconventional gas research initiative for clean energy transition in Europe. <i>Journal of Natural Gas Science and Engineering</i> , 2011, 3, 402-412.	2.1	40
21	Obtaining the Spatial Distribution of Water Content along a TDR Probe Using the SCEM-UA Bayesian Inverse Modeling Scheme. <i>Vadose Zone Journal</i> , 2004, 3, 1128-1145.	1.3	36
22	Obtaining the Spatial Distribution of Water Content along a TDR Probe Using the SCEM-UA Bayesian Inverse Modeling Scheme. <i>Vadose Zone Journal</i> , 2004, 3, 1128-1145.	1.3	45
23	Comparison of travel time analysis and inverse modeling for soil water content determination with time domain reflectometry. <i>Water Resources Research</i> , 2002, 38, 13-1-13-8.	1.7	39
24	Development of an Optical Sensor for BTEX and Chlorinated Solvents. , 2002, , 151-155.		0
25	Naphthalene Sorption to Organic Soil Materials Studied with Continuous Stirred Flow Experiments. <i>Soil Science Society of America Journal</i> , 1999, 63, 297-306.	1.2	10
26	TDR calibration of organic forest floor media. <i>Soil and Tillage Research</i> , 1997, 11, 205-217.	0.4	61
27	Frequency-Dependent Dielectric Permittivity from 0 to 1 GHz: Time Domain Reflectometry Measurements Compared with Frequency Domain Network Analyzer Measurements. <i>Water Resources Research</i> , 1996, 32, 3603-3610.	1.7	80
28	Dielectric spectroscopy by inverse modelling of time domain reflectometry wave forms. <i>Journal of Food Engineering</i> , 1996, 30, 351-362.	2.7	17
29	Assessing Temporal Variations in Soil Water Composition with Time Domain Reflectometry. <i>Soil Science Society of America Journal</i> , 1995, 59, 689-698.	1.2	174
30	Frequency domain analysis of time domain reflectometry waveforms: 1. Measurement of the complex dielectric permittivity of soils. <i>Water Resources Research</i> , 1994, 30, 189-199.	1.7	177
31	Frequency domain analysis of time domain reflectometry waveforms: 2. A four-component complex dielectric mixing model for soils. <i>Water Resources Research</i> , 1994, 30, 201-209.	1.7	101
32	Design of Triple-Wire Time Domain Reflectometry Probes in Practice and Theory. <i>Soil Science Society of America Journal</i> , 1993, 57, 1410-1417.	1.2	178
33	The application of TDR in laboratory column experiments. <i>Soil and Tillage Research</i> , 1993, 6, 261-272.	0.4	10
34	Spatial patterns of throughfall and soil water dynamics in a Douglas fir stand. <i>Water Resources Research</i> , 1992, 28, 3227-3233.	1.7	114
35	Comments on "Time Domain Reflectometry Measurements of Water Content and Electrical Conductivity of Layered Soil Columns". <i>Soil Science Society of America Journal</i> , 1992, 56, 1657-1658.	1.2	19
36	A computer-controlled 36-channel time domain reflectometry system for monitoring soil water contents. <i>Water Resources Research</i> , 1990, 26, 2311-2316.	1.7	81

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37	A computer controlled 36-channel time domain reflectometry system for monitoring soil water contents. <i>Water Resources Research</i> , 1990, 26, 2311-2316.	1.7	136
38	Geophysical tomography as a tool to estimate the geometry of soil layers: relevance for the reliability assessment of dikes. <i>Georisk</i> , 0, , 1-21.	2.6	3