Martine van der Ploeg

List of Publications by Year
in descending order

60 papers	4,784 citations	257450 24 h-index	149698 56 g-index

83 all docs	83 docs citations	83 times ranked	6375 citing authors

#	Article	IF	Citations
1	Microplastics in the Terrestrial Ecosystem: Implications for Lumbricus terrestris (Oligochaeta,) Tj ETQq1 1 0.784314 rgBT /Over	10.0	844
2	Emerging pollutants in the environment: A challenge for water resource management. International Soil and Water Conservation Research, 2015, 3, 57-65.	6.5	714
3	Field evidence for transfer of plastic debris along a terrestrial food chain. Scientific Reports, 2017, 7, 14071.	3.3	523
4	Incorporation of microplastics from litter into burrows of Lumbricus terrestris. Environmental Pollution, 2017, 220, 523-531.	7.5	479
5	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
6	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. Reviews of Geophysics, 2017, 55, 1199-1256.	23.0	316
7	Soil microbiota as game-changers in restoration of degraded lands. Science, 2022, 375, abe0725.	12.6	216
8	Leaching of microplastics by preferential flow in earthworm (Lumbricus terrestris) burrows. Environmental Chemistry, 2019, 16, 31.	1.5	116
9	Root zone soil moisture estimation with Random Forest. Journal of Hydrology, 2021, 593, 125840.	5.4	86
10	Climate change impacts on agricultural suitability and yield reduction in a Mediterranean region. Geoderma, 2020, 374, 114453.	5.1	70
11	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	5.2	68
12	Global environmental changes impact soil hydraulic functions through biophysical feedbacks. Global Change Biology, 2019, 25, 1895-1904.	9.5	60
13	New Polymer Tensiometers: Measuring Matric Pressures Down to the Wilting Point. Vadose Zone Journal, 2007, 6, 196-202.	2.2	45
14	Short-term rainfall forecasts as a soft adaptation to climate change in irrigation management in North-East India. Agricultural Water Management, 2013, 127, 97-106.	5.6	44
15	Sensitivity to long-term climate change of subpermafrost groundwater systems in Svalbard. Quaternary Research, 2010, 73, 393-402.	1.7	41
16	Causes and Controlling Factors of Valley Bottom Gullies. Land, 2019, 8, 141.	2.9	35
17	Incorporating soil ecosystem services into urban planning: status, challenges and opportunities. Landscape Ecology, 2018, 33, 1087-1102.	4.2	33
18	Silver nanoparticles in soil: Aqueous extraction combined with single-particle ICP-MS for detection and characterization. Environmental Nanotechnology, Monitoring and Management, 2017, 7, 24-33.	2.9	31

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19	Susceptibility to Gully Erosion: Applying Random Forest (RF) and Frequency Ratio (FR) Approaches to a Small Catchment in Ethiopia. Water (Switzerland), 2021, 13, 216.	2.7	31
20	Microtopography as a Driving Mechanism for Ecohydrological Processes in Shallow Groundwater Systems. Vadose Zone Journal, 2012, 11, vzj2011.0098.	2.2	30
21	Anatomy of the 2018Âagricultural drought in the Netherlands using in situ soil moisture and satellite vegetation indices. Hydrology and Earth System Sciences, 2020, 24, 6021-6031.	4.9	28
22	Matric Potential Measurements by Polymer Tensiometers in Cropped Lysimeters under Waterâ€Stressed Conditions. Vadose Zone Journal, 2008, 7, 1048-1054.	2.2	26
23	Water storage change estimation from in situ shrinkage measurements of clay soils. Hydrology and Earth System Sciences, 2013, 17, 1933-1949.	4.9	25
24	Forecasting soil temperature based on surface air temperature using a wavelet artificial neural network. Meteorological Applications, 2017, 24, 603-611.	2.1	25
25	Tracking the Transport of Silver Nanoparticles in Soil: a Saturated Column Experiment. Water, Air, and Soil Pollution, 2018, 229, 334.	2.4	25
26	No effect of pyrolysis temperature and feedstock type on hydraulic properties of biochar and amended sandy soil. Geoderma, 2020, 364, 114209.	5.1	25
27	Polymer tensiometers with ceramic cones: direct observations of matric pressures in drying soils. Hydrology and Earth System Sciences, 2010, 14, 1787-1799.	4.9	24
28	Impact of longâ€term subâ€soiling tillage on soil porosity and soil physical properties in the soil profile. Land Degradation and Development, 2021, 32, 2892-2905.	3.9	23
29	The Raam regional soil moisture monitoring network in the Netherlands. Earth System Science Data, 2018, 10, 61-79.	9.9	23
30	Tropical Montane Cloud Forests in the Orinoco river basin: The role of soil organic layers in water storage and release. Geoderma, 2017, 298, 14-26.	5.1	21
31	Interpreting Repeated Temperatureâ€Depth Profiles for Groundwater Flow. Water Resources Research, 2017, 53, 8639-8647.	4.2	21
32	Effects of long-term super absorbent polymer and organic manure on soil structure and organic carbon distribution in different soil layers. Soil and Tillage Research, 2021, 206, 104781.	5.6	18
33	Modeling Agricultural Suitability Along Soil Transects Under Current Conditions and Improved Scenario of Soil Factors. , 2017, , 193-219.		16
34	On the complexity of model complexity: Viewpoints across the geosciences. Catena, 2020, 186, 104261.	5.0	15
35	Quantifying heterogeneous transport of a tracer and a degradable contaminant in the field, with snowmelt and irrigation. Hydrology and Earth System Sciences, 2012, 16, 2871-2882.	4.9	14
36	Comparison of Soil Water Potential Sensors: A Drying Experiment. Vadose Zone Journal, 2017, 16, 1-8.	2.2	14

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37	Biophysical landscape interactions: Bridging disciplines and scale with connectivity. Land Degradation and Development, 2018, 29, 1167-1175.	3.9	14
38	Spatio-temporal variation of throughfall in a hyrcanian plain forest stand in Northern Iran. Journal of Hydrology and Hydromechanics, 2018, 66, 97-106.	2.0	14
39	Effects of microplastics and earthworm burrows on soil macropore water flow within a laboratory soil column setup. Vadose Zone Journal, 2020, 19, e20059.	2.2	14
40	Satelliteâ€Based Radar Interferometry to Estimate Largeâ€Scale Soil Water Depletion from Clay Shrinkage: Possibilities and Limitations. Vadose Zone Journal, 2013, 12, 1-13.	2.2	13
41	Variation in hydrologic connectivity as a result of microtopography explained by discharge to catchment size relationship. Hydrological Processes, 2017, 31, 2683-2699.	2.6	13
42	Using lagged dependence to identify (de)coupled surface and subsurface soil moisture values. Hydrology and Earth System Sciences, 2018, 22, 2255-2267.	4.9	13
43	Measuring very negative water potentials with polymer tensiometers: principles, performance and applications. Biologia (Poland), 2009, 64, 438-442.	1.5	12
44	Monitoring agricultural field trafficability using Sentinel-1. Agricultural Water Management, 2019, 224, 105698.	5.6	12
45	Rivers running green: water hyacinth invasion monitored from space. Environmental Research Letters, 2022, 17, 044069.	5.2	10
46	Subpermafrost groundwater systems: Dealing with virtual reality while having virtually no data. Journal of Hydrology, 2012, 475, 42-52.	5.4	9
47	Transport and degradation of propylene glycol in the vadose zone: model development and sensitivity analysis. Environmental Science and Pollution Research, 2013, 21, 9054-66.	5.3	8
48	Inferring Permafrost Active Layer Thermal Properties From Numerical Model Optimization. Geophysical Research Letters, 2021, 48, e2021GL093306.	4.0	7
49	Usefulness of an opportunistic data analysis approach to evaluate if environmental regulations aim at relevant applications. Geoderma, 2019, 351, 261-269.	5.1	6
50	Effect on Soil Properties and Crop Yields to Long-Term Application of Superabsorbent Polymer and Manure. Frontiers in Environmental Science, 2022, 10, .	3.3	6
51	Interweaving Monitoring Activities and Model Development towards Enhancing Knowledge of the Soil-Plant-Atmosphere Continuum. Vadose Zone Journal, 2012, 11, vzj2012.0122.	2.2	5
52	Groundwater and Global Palaeoclimate Signals (G@GPS). Episodes, 2016, 39, 556-567.	1.2	5
53	Going Back to the Roots: The Need to Link Plant Functional Biology with Vadose Zone Processes. Procedia Environmental Sciences, 2013, 19, 379-383.	1.4	4
54	Spatial distribution of solute leaching with snowmelt and irrigation: measurements and simulations. Hydrology and Earth System Sciences, 2013, 17, 1547-1560.	4.9	3

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55	Rainfall Simulator Experiments to Investigate Macropore Impacts on Hillslope Hydrological Response. Hydrology, 2016, 3, 39.	3.0	2
56	A multi-model approach for analysing water balance and water-related ecosystem services in the Ouriyori catchment (Benin). Hydrological Sciences Journal, 2020, 65, 2453-2465.	2.6	2
57	Inferring Aquitard Hydraulic Conductivity Using Transient Temperatureâ€Depth Profiles Impacted by Ground Surface Warming. Water Resources Research, 2022, 58, .	4.2	2
58	Assessing the Effects of Anthropogenic Land Use on Soil Infiltration Rate in a Tropical West African Watershed (Ouriyori, Benin). Applied and Environmental Soil Science, 2022, 2022, 1-11.	1.7	1
59	Semi-arid groundwater systems and their response to global change. Quaternary International, 2012, 279-280, 513.	1.5	0
60	Modeling Digs Beyond Soil Properties and Processes. Eos, 2019, 100, .	0.1	0