

Martine van der Ploeg

List of Publications by Year in descending order

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Version: 2024-02-01

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	Rivers running green: water hyacinth invasion monitored from space. <i>Environmental Research Letters</i> , 2022, 17, 044069.	5.2	10
2	Soil microbiota as game-changers in restoration of degraded lands. <i>Science</i> , 2022, 375, abe0725.	12.6	216
3	Effect on Soil Properties and Crop Yields to Long-Term Application of Superabsorbent Polymer and Manure. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	6
4	Assessing the Effects of Anthropogenic Land Use on Soil Infiltration Rate in a Tropical West African Watershed (Ouriyori, Benin). <i>Applied and Environmental Soil Science</i> , 2022, 2022, 1-11.	1.7	1
5	Inferring Aquitard Hydraulic Conductivity Using Transient Temperature-Depth Profiles Impacted by Ground Surface Warming. <i>Water Resources Research</i> , 2022, 58, .	4.2	2
6	Effects of long-term super absorbent polymer and organic manure on soil structure and organic carbon distribution in different soil layers. <i>Soil and Tillage Research</i> , 2021, 206, 104781.	5.6	18
7	Susceptibility to Gully Erosion: Applying Random Forest (RF) and Frequency Ratio (FR) Approaches to a Small Catchment in Ethiopia. <i>Water (Switzerland)</i> , 2021, 13, 216.	2.7	31
8	Root zone soil moisture estimation with Random Forest. <i>Journal of Hydrology</i> , 2021, 593, 125840.	5.4	86
9	Impact of long-term subsoiling tillage on soil porosity and soil physical properties in the soil profile. <i>Land Degradation and Development</i> , 2021, 32, 2892-2905.	3.9	23
10	Inferring Permafrost Active Layer Thermal Properties From Numerical Model Optimization. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093306.	4.0	7
11	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	5.2	68
12	On the complexity of model complexity: Viewpoints across the geosciences. <i>Catena</i> , 2020, 186, 104261.	5.0	15
13	A multi-model approach for analysing water balance and water-related ecosystem services in the Ouriyori catchment (Benin). <i>Hydrological Sciences Journal</i> , 2020, 65, 2453-2465.	2.6	2
14	Effects of microplastics and earthworm burrows on soil macropore water flow within a laboratory soil column setup. <i>Vadose Zone Journal</i> , 2020, 19, e20059.	2.2	14
15	No effect of pyrolysis temperature and feedstock type on hydraulic properties of biochar and amended sandy soil. <i>Geoderma</i> , 2020, 364, 114209.	5.1	25
16	Climate change impacts on agricultural suitability and yield reduction in a Mediterranean region. <i>Geoderma</i> , 2020, 374, 114453.	5.1	70
17	Anatomy of the 2018 Agricultural drought in the Netherlands using in situ soil moisture and satellite vegetation indices. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 6021-6031.	4.9	28
18	Causes and Controlling Factors of Valley Bottom Gullies. <i>Land</i> , 2019, 8, 141.	2.9	35

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19	Monitoring agricultural field trafficability using Sentinel-1. <i>Agricultural Water Management</i> , 2019, 224, 105698.	5.6	12
20	Usefulness of an opportunistic data analysis approach to evaluate if environmental regulations aim at relevant applications. <i>Geoderma</i> , 2019, 351, 261-269.	5.1	6
21	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
22	Global environmental changes impact soil hydraulic functions through biophysical feedbacks. <i>Global Change Biology</i> , 2019, 25, 1895-1904.	9.5	60
23	Leaching of microplastics by preferential flow in earthworm (<i>Lumbricus terrestris</i>) burrows. <i>Environmental Chemistry</i> , 2019, 16, 31.	1.5	116
24	Modeling Digs Beyond Soil Properties and Processes. <i>Eos</i> , 2019, 100, .	0.1	0
25	Biophysical landscape interactions: Bridging disciplines and scale with connectivity. <i>Land Degradation and Development</i> , 2018, 29, 1167-1175.	3.9	14
26	Spatio-temporal variation of throughfall in a hyrcanian plain forest stand in Northern Iran. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 97-106.	2.0	14
27	Tracking the Transport of Silver Nanoparticles in Soil: a Saturated Column Experiment. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 334.	2.4	25
28	Incorporating soil ecosystem services into urban planning: status, challenges and opportunities. <i>Landscape Ecology</i> , 2018, 33, 1087-1102.	4.2	33
29	Using lagged dependence to identify (de)coupled surface and subsurface soil moisture values. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2255-2267.	4.9	13
30	The Raam regional soil moisture monitoring network in the Netherlands. <i>Earth System Science Data</i> , 2018, 10, 61-79.	9.9	23
31	Comparison of Soil Water Potential Sensors: A Drying Experiment. <i>Vadose Zone Journal</i> , 2017, 16, 1-8.	2.2	14
32	Tropical Montane Cloud Forests in the Orinoco river basin: The role of soil organic layers in water storage and release. <i>Geoderma</i> , 2017, 298, 14-26.	5.1	21
33	Variation in hydrologic connectivity as a result of microtopography explained by discharge to catchment size relationship. <i>Hydrological Processes</i> , 2017, 31, 2683-2699.	2.6	13
34	Silver nanoparticles in soil: Aqueous extraction combined with single-particle ICP-MS for detection and characterization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2017, 7, 24-33.	2.9	31
35	Field evidence for transfer of plastic debris along a terrestrial food chain. <i>Scientific Reports</i> , 2017, 7, 14071.	3.3	523
36	Interpreting Repeated Temperature–Depth Profiles for Groundwater Flow. <i>Water Resources Research</i> , 2017, 53, 8639-8647.	4.2	21

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37	Forecasting soil temperature based on surface air temperature using a wavelet artificial neural network. <i>Meteorological Applications</i> , 2017, 24, 603-611.	2.1	25
38	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. <i>Reviews of Geophysics</i> , 2017, 55, 1199-1256.	23.0	316
39	Incorporation of microplastics from litter into burrows of <i>Lumbricus terrestris</i> . <i>Environmental Pollution</i> , 2017, 220, 523-531.	7.5	479
40	Modeling Agricultural Suitability Along Soil Transects Under Current Conditions and Improved Scenario of Soil Factors. , 2017, , 193-219.		16
41	Rainfall Simulator Experiments to Investigate Macropore Impacts on Hillslope Hydrological Response. <i>Hydrology</i> , 2016, 3, 39.	3.0	2
42	Microplastics in the Terrestrial Ecosystem: Implications for <i>Lumbricus terrestris</i> (Oligochaeta). <i>Journal of Environmental Quality</i> , 2017, 46, 1074-1084.	10.0	844
43	Groundwater and Global Palaeoclimate Signals (G@GPS). <i>Episodes</i> , 2016, 39, 556-567.	1.2	5
44	Emerging pollutants in the environment: A challenge for water resource management. <i>International Soil and Water Conservation Research</i> , 2015, 3, 57-65.	6.5	714
45	Short-term rainfall forecasts as a soft adaptation to climate change in irrigation management in North-East India. <i>Agricultural Water Management</i> , 2013, 127, 97-106.	5.6	44
46	Going Back to the Roots: The Need to Link Plant Functional Biology with Vadose Zone Processes. <i>Procedia Environmental Sciences</i> , 2013, 19, 379-383.	1.4	4
47	Transport and degradation of propylene glycol in the vadose zone: model development and sensitivity analysis. <i>Environmental Science and Pollution Research</i> , 2013, 21, 9054-66.	5.3	8
48	Satellite-Based Radar Interferometry to Estimate Large-Scale Soil Water Depletion from Clay Shrinkage: Possibilities and Limitations. <i>Vadose Zone Journal</i> , 2013, 12, 1-13.	2.2	13
49	Water storage change estimation from in situ shrinkage measurements of clay soils. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1933-1949.	4.9	25
50	Spatial distribution of solute leaching with snowmelt and irrigation: measurements and simulations. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1547-1560.	4.9	3
51	Interweaving Monitoring Activities and Model Development towards Enhancing Knowledge of the Soil-Plant-Atmosphere Continuum. <i>Vadose Zone Journal</i> , 2012, 11, vzt2012.0122.	2.2	5
52	Subpermafrost groundwater systems: Dealing with virtual reality while having virtually no data. <i>Journal of Hydrology</i> , 2012, 475, 42-52.	5.4	9
53	Semi-arid groundwater systems and their response to global change. <i>Quaternary International</i> , 2012, 279-280, 513.	1.5	0
54	Microtopography as a Driving Mechanism for Ecohydrological Processes in Shallow Groundwater Systems. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0098.	2.2	30

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55	Quantifying heterogeneous transport of a tracer and a degradable contaminant in the field, with snowmelt and irrigation. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2871-2882.	4.9	14
56	Sensitivity to long-term climate change of subpermafrost groundwater systems in Svalbard. <i>Quaternary Research</i> , 2010, 73, 393-402.	1.7	41
57	Polymer tensiometers with ceramic cones: direct observations of matric pressures in drying soils. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1787-1799.	4.9	24
58	Measuring very negative water potentials with polymer tensiometers: principles, performance and applications. <i>Biologia (Poland)</i> , 2009, 64, 438-442.	1.5	12
59	Matric Potential Measurements by Polymer Tensiometers in Cropped Lysimeters under Water-€Stressed Conditions. <i>Vadose Zone Journal</i> , 2008, 7, 1048-1054.	2.2	26
60	New Polymer Tensiometers: Measuring Matric Pressures Down to the Wilting Point. <i>Vadose Zone Journal</i> , 2007, 6, 196-202.	2.2	45