Marnik Vanclooster

List of Publications by Year
in descending order

77 papers	3,509 citations	172207 29 h-index	138251 58 g-index
84 all docs	84 docs citations	84 times ranked	3828 citing authors

#	Article	IF	Citations
1	Implementation of the Standardized Precipitation Index in semi-arid North African areas: reply to the discussion of "Drought assessment in a south Mediterranean transboundary catchment". Hydrological Sciences Journal, 2022, 67, 157-160.	1.2	1
2	Detecting hydrological connectivity using causal inference from time series: synthetic and real karstic case studies. Hydrology and Earth System Sciences, 2022, 26, 2181-2199.	1.9	6
3	Time-series clustering approaches for subsurface zonation and hydrofacies detection using a real time-lapse electrical resistivity dataset. Journal of Applied Geophysics, 2021, 184, 104203.	0.9	19
4	The added value of spatially distributed meteorological data for simulating hydrological processes in a small Mediterranean catchment. Acta Geophysica, 2020, 68, 133-153.	1.0	4
5	Testing a citizen science water monitoring approach in Tunisia. Environmental Science and Policy, 2020, 104, 67-72.	2.4	21
6	Data fusion of citizen-generated smartphone discharge measurements in Tunisia. Journal of Hydrology, 2020, 590, 125518.	2.3	9
7	Exploring causes of streamflow alteration in the Medjerda river, Algeria. Journal of Hydrology: Regional Studies, 2020, 32, 100750.	1.0	9
8	Modelling the Temporal Dynamics of Groundwater Pollution Risks at the African Scale. Water (Switzerland), 2020, 12, 1406.	1.2	9
9	Drought assessment in a south Mediterranean transboundary catchment. Hydrological Sciences Journal, 2020, 65, 1300-1315.	1.2	11
10	A Parsimonious Empirical Approach to Streamflow Recession Analysis and Forecasting. Water Resources Research, 2020, 56, e2019WR025771.	1.7	7
11	Disaggregating SDG-6 water stress indicator at different spatial and temporal scales in Tunisia. Science of the Total Environment, 2019, 694, 133766.	3.9	22
12	A Simple Device for Field and Laboratory Measurements of Soil Air Permeability. Soil Science Society of America Journal, 2019, 83, 58-63.	1.2	6
13	Assessing the cover crop effect on soil hydraulic properties by inverse modelling in a 10-year field trial. Agricultural Water Management, 2019, 222, 62-71.	2.4	23
14	Application of random forest regression and comparison of its performance to multiple linear regression in modeling groundwater nitrate concentration at the African continent scale. Hydrogeology Journal, 2019, 27, 1081-1098.	0.9	81
15	Validating a continental-scale groundwater diffuse pollution model using regional datasets. Environmental Science and Pollution Research, 2019, 26, 2105-2119.	2.7	7
16	Assessing cover crop management under actual and climate change conditions. Science of the Total Environment, 2018, 621, 1330-1341.	3.9	38
17	Tracer Experiment in a Brownfield Using Geophysics and a Vadose Zone Monitoring System. Vadose Zone Journal, 2017, 16, 1-15.	1.3	5
18	Assessing groundwater vulnerability in the Kinshasa region, DR Congo, using a calibrated DRASTIC model. Journal of African Earth Sciences, 2017, 126, 13-22.	0.9	25

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19	A meta-analysis and statistical modelling of nitrates in groundwater at the African scale. Hydrology and Earth System Sciences, 2016, 20, 2353-2381.	1.9	20
20	Direct measurement of evapotranspiration from a forest using a superconducting gravimeter. Geophysical Research Letters, 2016, 43, 10,225.	1.5	20
21	Modelling nitrate pollution pressure using a multivariate statistical approach: the case of Kinshasa groundwater body, Democratic Republic of Congo. Hydrogeology Journal, 2016, 24, 425-437.	0.9	28
22	Mapping the groundwater vulnerability for pollution at the pan African scale. Science of the Total Environment, 2016, 544, 939-953.	3.9	109
23	Climate models and hydrological parameter uncertainties in climate change impacts on monthly runoff and daily flow duration curve of a Mediterranean catchment. Hydrological Sciences Journal, 2016, 61, 1415-1429.	1.2	23
24	Quantifying hydrological responses of small Mediterranean catchments under climate change projections. Science of the Total Environment, 2016, 543, 924-936.	3.9	80
25	Constraining a coupled erosion and soil organic carbon model using hillslope–scale patterns of carbon stocks and pool composition. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 452-465.	1.3	15
26	High-resolution space–time quantification of soil moisture along a hillslope using joint analysis of ground penetrating radar and frequency domain reflectometry data. Journal of Hydrology, 2015, 523, 252-261.	2.3	33
27	Joint estimation of soil moisture profile and hydraulic parameters by ground–penetrating radar data assimilation with maximum likelihood ensemble filter. Water Resources Research, 2014, 50, 3131-3146.	1.7	36
28	Modeling nitrogen removal in a vertical flow constructed wetland treating directly domestic wastewater. Ecological Engineering, 2014, 70, 379-386.	1.6	26
29	Combining a Single Hydraulic Conductivity Measurement with Particle Size Distribution Data for Estimating the Full Range Partially Saturated Hydraulic Conductivity Curve. Soil Science Society of America Journal, 2014, 78, 1594-1605.	1.2	2
30	Parameter and rating curve uncertainty propagation analysis of the SWAT model for two small Mediterranean catchments. Hydrological Sciences Journal, 2013, 58, 1635-1657.	1.2	37
31	Assessment of the SWAT model prediction uncertainty using the GLUE approach A case study of the Chiba catchment (Tunisia). , 2013, , .		0
32	Estimating hysteresis in the soil water retention curve from monolith experiments. Geoderma, 2012, 189-190, 480-490.	2.3	15
33	EFFECTS OF IRRIGATION ON SOIL PHYSICO–CHEMISTRY: A CASE STUDY OF THE TRIFFA PLAIN (MOROCCO). Irrigation and Drainage, 2012, 61, 507-519.	0.8	8
34	Indirect estimation of the Convective Lognormal Transfer function model parameters for describing solute transport in unsaturated and undisturbed soil. Journal of Contaminant Hydrology, 2012, 132, 48-57.	1.6	2
35	Validation of ground penetrating radar full-waveform inversion for field scale soil moisture mapping. Journal of Hydrology, 2012, 424-425, 112-123.	2.3	85
36	Field-scale analysis of water and nutrient use efficiency for vegetable production in a West African urban agricultural system. Nutrient Cycling in Agroecosystems, 2012, 92, 207-224.	1.1	38

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37	Bayesian Data Fusion (BDF) of Monitoring Data with a Statistical Groundwater Contamination Model to Map Groundwater Quality at the Regional Scale. Journal of Water Resource and Protection, 2012, 04, 929-943.	0.3	11
38	Identification of the nitrate contamination sources of the Brusselian sands groundwater body (Belgium) using a dual-isotope approach. Isotopes in Environmental and Health Studies, 2011, 47, 297-315.	0.5	16
39	Mapping shallow soil moisture profiles at the field scale using full-waveform inversion of ground penetrating radar data. Geoderma, 2011, 161, 225-237.	2.3	66
40	Solid respirometry to characterize nitrification kinetics: A better insight for modelling nitrogen conversion in vertical flow constructed wetlands. Water Research, 2011, 45, 4995-5004.	5.3	11
41	Analysis of Flow Rate Dependency of Solute Transport in an Undisturbed Inceptisol. Vadose Zone Journal, 2011, 10, 394-402.	1.3	9
42	Predicting the Soil Moisture Characteristic Curve from Particle Size Distribution with a Simple Conceptual Model. Vadose Zone Journal, 2011, 10, 594-602.	1.3	62
43	Refining and unifying the upper limits of the least limiting water range using soil and plant properties. Plant and Soil, 2010, 334, 221-234.	1.8	18
44	Estimating travel time of recharge water through a deep vadose zone using a transfer function model. Environmental Fluid Mechanics, 2010, 10, 121-135.	0.7	29
45	Tracer and timescale methods for understanding complex geophysical and environmental fluid flows. Environmental Fluid Mechanics, 2010, 10, 1-5.	0.7	7
46	Soil Surface Water Content Estimation by Full-Waveform GPR Signal Inversion in the Presence of Thin Layers. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1138-1150.	2.7	68
47	Characterization of layered media using full-waveform inversion of proximal GPR data. , 2010, , .		3
48	Discriminating sources of nitrate pollution in an unconfined sandy aquifer. Journal of Hydrology, 2009, 376, 275-284.	2.3	25
49	Uniqueness and stability analysis of hydrogeophysical inversion for time–lapse ground–penetrating radar estimates of shallow soil hydraulic properties. Water Resources Research, 2008, 44, .	1.7	44
50	Assessing ground water quality in the irrigated plain of Triffa (north-east Morocco). Agricultural Water Management, 2008, 95, 133-142.	2.4	29
51	Hydrogeophysical Techniques for Site Characterization and Monitoring: Recent Advances in Ground-penetrating Radar. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 183-202.	0.1	6
52	Numerical Models for Prediction of Flow and Transport in Soil at the Field Scale. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 281-291.	0.1	0
53	The consequences of interpolating or calculating first on the simulation of pesticide leaching at the regional scale. Geoderma, 2007, 137, 414-425.	2.3	6
54	Including Spatial Variability in Monte Carlo Simulations of Pesticide Leaching. Environmental Science & Technology, 2007, 41, 7444-7450.	4.6	19

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55	Sustainable development in small island developing states: Agricultural intensification, economic development, and freshwater resources management on the coral atoll of Tongatapu. Ecological Economics, 2007, 61, 456-468.	2.9	80
56	SAFEâ€"A hierarchical framework for assessing the sustainability of agricultural systems. Agriculture, Ecosystems and Environment, 2007, 120, 229-242.	2.5	328
57	Effect of soil roughness on the inversion of off-ground monostatic GPR signal for noninvasive quantification of soil properties. Water Resources Research, 2006, 42, .	1.7	66
58	Analysis of air-launched ground-penetrating radar techniques to measure the soil surface water content. Water Resources Research, 2006, 42, .	1.7	147
59	Experimental study of water flow and sulphate transport at monolith scale. Agricultural Water Management, 2006, 79, 93-112.	2.4	6
60	A new integrated approach for characterizing the soil electromagnetic properties and detecting landmines using a hand-held vector network analyzer. , 2006, 6217, 290.		2
61	Discriminating between point and non-point sources of atrazine contamination of a sandy aquifer. Science of the Total Environment, 2006, 362, 124-142.	3.9	20
62	A Set of Analytical Benchmarks to Test Numerical Models of Flow and Transport in Soils. Vadose Zone Journal, 2005, 4, 206-221.	1.3	40
63	Sensitivity of the SWAT model to the soil and land use data parametrisation: a case study in the Thyle catchment, Belgium. Ecological Modelling, 2005, 187, 27-39.	1.2	114
64	Frequency Dependence of the Soil Electromagnetic Properties Derived from Ground-Penetrating Radar Signal Inversion. Subsurface Sensing Technologies and Applications, 2005, 6, 73-87.	0.9	35
65	Correction to â€œPrediction of fingering in porous mediaâ€. Water Resources Research, 2005, 41, .	1.7	3
66	Modeling of ground-penetrating Radar for accurate characterization of subsurface electric properties. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2555-2568.	2.7	395
67	Using inverse methods for estimating soil hydraulic properties from field data as an alternative to direct methods. Agricultural Water Management, 2003, 59, 77-96.	2.4	135
68	Groundwater nitrate pollution in the Essaouira Basin (Morocco). Comptes Rendus - Geoscience, 2003, 335, 307-317.	0.4	64
69	Flood Hazard Causes and Flood Protection Recommendations for Belgian River Basins. Water International, 2002, 27, 202-207.	0.4	4
70	Intraseasonal dynamics of soil moisture variability within a small agricultural maize cropped field. Journal of Hydrology, 2002, 261, 86-101.	2.3	273
71	Effect of the sampling frequency of meteorological variables on the estimation of the reference evapotranspiration. Journal of Hydrology, 2001, 243, 192-204.	2.3	119
72	A European test of pesticide-leaching models: methodology and major recommendations. Agricultural Water Management, 2000, 44, 1-19.	2.4	124

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73	Predicted drainage for a sandy loam soil: sensitivity to hydraulic property description. Journal of Hydrology, 1998, 206, 136-148.	2.3	11
74	Comparison of Three Methods to Calibrate TDR for Monitoring Solute Movement in Undisturbed Soil. Soil Science Society of America Journal, 1996, 60, 747-754.	1.2	93
75	Monitoring Solute Transport in a Multiâ€Layered Sandy Lysimeter using Time Domain Reflectometry. Soil Science Society of America Journal, 1995, 59, 337-344.	1.2	71
76	Determining local-scale solute transport parameters using time domain reflectometry (TDR). Journal of Hydrology, 1993, 148, 93-107.	2.3	68
77	Challenges of groundwater pollution and management in transboundary basins at the African scale. Proceedings of the International Association of Hydrological Sciences, 0, 384, 69-74.	1.0	0