Tammo Steenhuis

List of Publications by Year
in descending order

229 papers	8,365 citations	41344 49 h-index	74163 75 g-index
258 all docs	258 docs citations	258 times ranked	6758 citing authors

#	Article	IF	Citations
1	Sustainable futures over the next decade are rooted in soil science. European Journal of Soil Science, 2022, 73, .	3.9	19
2	Berken plow and intercropping with pigeon pea ameliorate degraded soils with a hardpan in the Ethiopian highlands. Geoderma, 2022, 407, 115523.	5.1	6
3	Phosphonate herbicide interactions with quartz, montmorillonite, and quartzâ€enriched agricultural soil. Soil Science Society of America Journal, 2022, 86, 209-223.	2.2	4
4	Topography Impacts Hydrology in the Sub-Humid Ethiopian Highlands. Water (Switzerland), 2022, 14, 196.	2.7	2
5	Establishing Stageâ€"Discharge Rating Curves in Developing Countries: Lake Tana Basin, Ethiopia. Hydrology, 2022, 9, 13.	3.0	7
6	Conservation and Conventional Vegetable Cultivation Increase Soil Organic Matter and Nutrients in the Ethiopian Highlands. Water (Switzerland), 2022, 14, 476.	2.7	5
7	Water Quality Characteristics of a Water Hyacinth Infested Tropical Highland Lake: Lake Tana, Ethiopia. Frontiers in Water, 2022, 4, .	2.3	10
8	Barriers to implementing poverty alleviation through livelihood strategies: A participatory analysis of farming communities in Ethiopiaâ€™s upper Blue Nile basin. Environmental Science and Policy, 2022, 136, 453-466.	4.9	3
9	Sediment deposition (1940â€"2017) in a historically pristine lake in a rapidly developing tropical highland region in Ethiopia. Earth Surface Processes and Landforms, 2021, 46, 1521-1535.	2.5	6
10	Estimating Surface and Groundwater Irrigation Potential under Different Conservation Agricultural Practices and Irrigation Systems in the Ethiopian Highlands. Water (Switzerland), 2021, 13, 1645.	2.7	10
11	Ecological Status as the Basis for the Holistic Environmental Flow Assessment of a Tropical Highland River in Ethiopia. Water (Switzerland), 2021, 13, 1913.	2.7	4
12	Diversified crop rotations enhance groundwater and economic sustainability of food production. Food and Energy Security, 2021, 10, e311.	4.3	30
13	Revisiting Daily MODIS Evapotranspiration Algorithm Using Flux Tower Measurements in China. Earth and Space Science, 2021, 8, e2021EA001818.	2.6	2
14	Evaluating Irrigation and Farming Systems with Solar MajiPump in Ethiopia. Agronomy, 2021, 11, 17.	3.0	9
15	Phosphorus Export From Two Contrasting Rural Watersheds in the (Sub) Humid Ethiopian Highlands. Frontiers in Earth Science, 2021, 9, .	1.8	5
16	Establishing irrigation potential of a hillside aquifer in the African highlands. Hydrological Processes, 2020, 34, 1741-1753.	2.6	21
17	Transport and Retention Behaviors of Deformable Polyacrylamide Microspheres in Convergentâ€"Divergent Microchannels. Environmental Science & Technology, 2020, 54, 10876-10884.	10.0	18
18	The Relationship of Lake Morphometry and Phosphorus Dynamics of a Tropical Highland Lake: Lake Tana, Ethiopia. Water (Switzerland), 2020, 12, 2243.	2.7	10

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19	The Response of Water and Nutrient Dynamics and of Crop Yield to Conservation Agriculture in the Ethiopian Highlands. Sustainability, 2020, 12, 5989.	3.2	12
20	Bottom Sediment Characteristics of a Tropical Lake: Lake Tana, Ethiopia. Hydrology, 2020, 7, 18.	3.0	15
21	Hydrogeology of Volcanic Highlands Affects Prioritization of Land Management Practices. Water (Switzerland), 2020, 12, 2702.	2.7	13
22	Water Balance for a Tropical Lake in the Volcanic Highlands: Lake Tana, Ethiopia. Water (Switzerland), 2020, 12, 2737.	2.7	18
23	Exclosures improve degraded landscapes in the sub-humid Ethiopian Highlands: the Ferenj Wuha watershed. Journal of Environmental Management, 2020, 270, 110802.	7.8	14
24	Bank stability and toe erosion model as a decision tool for gully bank stabilization in sub humid Ethiopian highlands. Ecohydrology and Hydrobiology, 2020, 20, 301-311.	2.3	10
25	Can degraded soils be improved by ripping through the hardpan and liming? A field experiment in the humid Ethiopian Highlands. Land Degradation and Development, 2020, 31, 2047-2059.	3.9	9
26	Hydrological Foundation as a Basis for a Holistic Environmental Flow Assessment of Tropical Highland Rivers in Ethiopia. Water (Switzerland), 2020, 12, 547.	2.7	21
27	A nine-year study on the benefits and risks of soil and water conservation practices in the humid highlands of Ethiopia: The Debre Mawi watershed. Journal of Environmental Management, 2020, 270, 110885.	7.8	19
28	Experimental Evaluation for the Impacts of Conservation Agriculture with Drip Irrigation on Crop Coefficient and Soil Properties in the Sub-Humid Ethiopian Highlands. Water (Switzerland), 2020, 12, 947.	2.7	18
29	Groundwater use of a small Eucalyptus patch during the dry monsoon phase. Biologia (Poland), 2020, 75, 853-864.	1.5	12
30	Biochar acting as an electron acceptor reduces nitrate removal in woodchip denitrifying bioreactors. Ecological Engineering, 2020, 149, 105724.	3.6	11
31	Connecting hillslope and runoff generation processes in the Ethiopian Highlands: The Ene-Chilala watershed. Journal of Hydrology and Hydromechanics, 2020, 68, 313-327.	2.0	5
32	A field-validated surrogate crop model for predicting root-zone moisture and salt content in regions with shallow groundwater. Hydrology and Earth System Sciences, 2020, 24, 4213-4237.	4.9	11
33	Assessing Digital Soil Inventories for Predicting Streamflow in the Headwaters of the Blue Nile. Hydrology, 2020, 7, 8.	3.0	7
34	Impact of Land Use and Landscape on Runoff and Sediment in the Sub-humid Ethiopian Highlands: The Ene-Chilala Watershed. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 268-278.	0.3	0
35	Preface to the special issue on biohydrology dedicated to the memory of Dr. Louis W. Dekker. Journal of Hydrology and Hydromechanics, 2020, 68, 303-305.	2.0	0
36	Predicting the Fate of Preferentially Moving Herbicides. Vadose Zone Journal, 2019, 18, 1-11.	2.2	0

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37	Revisiting SWAT as a Saturation-Excess Runoff Model. Water (Switzerland), 2019, 11, 1427.	2.7	8
38	A unique vadose zone model for shallow aquifers: the Hetao irrigation district, China. Hydrology and Earth System Sciences, 2019, 23, 3097-3115.	4.9	6
39	Assessment of Suitable Land for Surface Irrigation in Ungauged Catchments: Blue Nile Basin, Ethiopia. Water (Switzerland), 2019, 11, 1465.	2.7	17
40	Conservation Agriculture Saves Irrigation Water in the Dry Monsoon Phase in the Ethiopian Highlands. Water (Switzerland), 2019, 11, 2103.	2.7	18
41	The Effect of Landscape Interventions on Groundwater Flow and Surface Runoff in a Watershed in the Upper Reaches of the Blue Nile. Water (Switzerland), 2019, 11, 2188.	2.7	12
42	Causes and Controlling Factors of Valley Bottom Gullies. Land, 2019, 8, 141.	2.9	35
43	Variability of soil surface characteristics in a mountainous watershed in Valle del Cauca, Colombia: Implications for runoff, erosion, and conservation. Journal of Hydrology, 2019, 576, 273-286.	5.4	16
44	Application of denitrifying bioreactors for the removal of atrazine in agricultural drainage water. Journal of Environmental Management, 2019, 239, 48-56.	7.8	18
45	Deep Tillage Improves Degraded Soils in the (Sub) Humid Ethiopian Highlands. Land, 2019, 8, 159.	2.9	23
46	Predicting Shallow Groundwater Tables for Sloping Highland Aquifers. Water Resources Research, 2019, 55, 11088-11100.	4.2	18
47	Impact of Soil Conservation and Eucalyptus on Hydrology and Soil Loss in the Ethiopian Highlands. Water (Switzerland), 2019, 11, 2299.	2.7	23
48	Erosion hotspot identification in the sub-humid Ethiopian highlands. Ecohydrology and Hydrobiology, 2019, 19, 146-154.	2.3	34
49	Evaluating infiltration models and pedotransfer functions: Implications for hydrologic modeling. Geoderma, 2019, 338, 159-169.	5.1	30
50	Sensitivity analysis of the parameterâ€efficient distributed (PED) model for discharge and sediment concentration estimation in degraded humid landscapes. Land Degradation and Development, 2019, 30, 151-165.	3.9	5
51	Antecedent and Post-Application Rain Events Trigger Glyphosate Transport from Runoff-Prone Soils. Environmental Science and Technology Letters, 2018, 5, 249-254.	8.7	11
52	Perennial Grass Bioenergy Cropping on Wet Marginal Land: Impacts on Soil Properties, Soil Organic Carbon, and Biomass During Initial Establishment. Bioenergy Research, 2018, 11, 262-276.	3.9	13
53	Root reinforcement to soils provided by common Ethiopian highland plants for gully erosion control. Ecohydrology, 2018, 11, e1940.	2.4	31
54	Gullies, a critical link in landscape soil loss: A case study in the subhumid highlands of Ethiopia. Land Degradation and Development, 2018, 29, 1222-1232.	3.9	33

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55	Evaluating hydrologic responses to soil characteristics using SWAT model in a paired-watersheds in the Upper Blue Nile Basin. Catena, 2018, 163, 332-341.	5.0	53
56	Budgeting suspended sediment fluxes in tropical monsoonal watersheds with limited data: the Lake Tana basin. Journal of Hydrology and Hydromechanics, 2018, 66, 65-78.	2.0	34
57	Developing Soil Conservation Strategies with Technical and Community Knowledge in a Degrading Subâ€Humid Mountainous Landscape. Land Degradation and Development, 2018, 29, 749-764.	3.9	15
58	Performance of bias corrected MPEG rainfall estimate for rainfall-runoff simulation in the upper Blue Nile Basin, Ethiopia. Journal of Hydrology, 2018, 556, 1182-1191.	5.4	44
59	Effect of Periâ€urban Development and Lithology on Streamflow in a Mediterranean Catchment. Land Degradation and Development, 2018, 29, 1141-1153.	3.9	19
60	Watershed modeling for reducing future non-point source sediment and phosphorus load in the Lake Tana Basin, Ethiopia. Journal of Soils and Sediments, 2018, 18, 309-322.	3.0	20
61	The effect of input data resolution and complexity on the uncertainty of hydrological predictions in a humid vegetated watershed. Hydrology and Earth System Sciences, 2018, 22, 5947-5965.	4.9	17
62	Assessment of Practices for Controlling Shallow Valley-Bottom Gullies in the Sub-Humid Ethiopian Highlands. Water (Switzerland), 2018, 10, 389.	2.7	9
63	Detection of glyphosate residues in companion animal feeds. Environmental Pollution, 2018, 243, 1113-1118.	7.5	42
64	Assessment of Nitrate in Wells and Springs in the North Central Ethiopian Highlands. Water (Switzerland), 2018, 10, 476.	2.7	15
65	Evaluating erosion control practices in an actively gullying watershed in the highlands of Ethiopia. Earth Surface Processes and Landforms, 2018, 43, 2835-2843.	2.5	23
66	Modeling sediment concentration and discharge variations in a small Ethiopian watershed with contributions from an unpaved road. Journal of Hydrology and Hydromechanics, 2017, 65, 1-17.	2.0	16
67	Deficit irrigation enhances contribution of shallow groundwater to crop water consumption in arid area. Agricultural Water Management, 2017, 185, 116-125.	5.6	33
68	Spatial and Temporal Trends of Recent Dissolved Phosphorus Concentrations in Lake Tana and its Four Main Tributaries. Land Degradation and Development, 2017, 28, 1742-1751.	3.9	17
69	Modeling discharge and sediment concentrations after landscape interventions in a humid monsoon climate: The Anjeni watershed in the highlands of Ethiopia. Hydrological Processes, 2017, 31, 1239-1257.	2.6	23
70	Inert Carbon Nanoparticles for the Assessment of Preferential Flow in Saturated Dual-Permeability Porous Media. Industrial & Engineering Chemistry Research, 2017, 56, 7365-7374.	3.7	7
71	Predicting saturationâ€excess runoff distribution with a lumped hillslope model: SWATâ€HS. Hydrological Processes, 2017, 31, 2226-2243.	2.6	33
72	Shift from transport limited to supply limited sediment concentrations with the progression of monsoon rains in the Upper Blue Nile Basin. Earth Surface Processes and Landforms, 2017, 42, 1317-1328.	2.5	14

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73	Modeling contribution of shallow groundwater to evapotranspiration and yield of maize in an arid area. Scientific Reports, 2017, 7, 43122.	3.3	33
74	Characterization of Degraded Soils in the Humid Ethiopian Highlands. Land Degradation and Development, 2017, 28, 1891-1901.	3.9	40
75	Groundwater Evaporation and Recharge for a Floodplain in a Subâ€humid Monsoon Climate in Ethiopia. Land Degradation and Development, 2017, 28, 1831-1841.	3.9	12
76	Gully Head Retreat in the Subâ€Humid Ethiopian Highlands: The Eneâ€Chilala Catchment. Land Degradation and Development, 2017, 28, 1579-1588.	3.9	33
77	Spatio-temporal patterns of groundwater depths and soil nutrients in a small watershed in the Ethiopian highlands: Topographic and land-use controls. Journal of Hydrology, 2017, 555, 420-434.	5.4	16
78	Effects of land use on catchment runoff and soil loss in the sub-humid Ethiopian highlands. Ecohydrology and Hydrobiology, 2017, 17, 274-282.	2.3	22
79	Seasonal performance of denitrifying bioreactors in the Northeastern United States: Field trials. Journal of Environmental Management, 2017, 202, 242-253.	7.8	49
80	Sediment Loss Patterns in the Subâ€Humid Ethiopian Highlands. Land Degradation and Development, 2017, 28, 1795-1805.	3.9	25
81	Effect of Ionic Strength on the Transport and Retention of Polyacrylamide Microspheres in Reservoir Water Shutoff Treatment. Industrial & Engineering Chemistry Research, 2017, 56, 8158-8168.	3.7	32
82	Suitability of Watershed Models to Predict Distributed Hydrologic Response in the Awramba Watershed in Lake Tana Basin. Land Degradation and Development, 2017, 28, 1386-1397.	3.9	28
83	Longâ€Term Landscape Changes in the Lake Tana Basin as Evidenced by Delta Development and Floodplain Aggradation in Ethiopia. Land Degradation and Development, 2017, 28, 1820-1830.	3.9	29
84	Mitigating Groundwater Depletion in North China Plain with Cropping System that Alternate Deep and Shallow Rooted Crops. Frontiers in Plant Science, 2017, 8, 980.	3.6	23
85	Impact of Soil Depth and Topography on the Effectiveness of Conservation Practices on Discharge and Soil Loss in the Ethiopian Highlands. Land, 2017, 6, 78.	2.9	19
86	Modeling Regional Soil Water Balance in Farmland of the Middle Reaches of Heihe River Basin. Water (Switzerland), 2017, 9, 847.	2.7	9
87	Sustainable Water Management in the Tourism Economy: Linking the Mediterraneanâ€™s Traditional Rainwater Cisterns to Modern Needs. Water (Switzerland), 2017, 9, 868.	2.7	13
88	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. Soil Science Society of America Journal, 2017, 81, 450-458.	2.2	7
89	Improving watershed management practices in humid regions. Hydrological Processes, 2017, 31, 3294-3301.	2.6	23
90	Effect of Gully Headcut Treatment on Sediment Load and Gully Expansion in the Sub Humid Ethiopian Highlands. Environment and Ecology Research, 2017, 5, 138-144.	0.5	11

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91	Groundwater Quality in an Upland Agricultural Watershed in the Sub-Humid Ethiopian Highlands. Journal of Water Resource and Protection, 2017, 09, 1199-1212.	0.8	14
92	Predicting Reference Evaporation for the Ethiopian Highlands. Journal of Water Resource and Protection, 2017, 09, 1244-1269.	0.8	13
93	Water Quality Assessment by Measuring and Using Landsat 7 ETM+ Images for the Current and Previous Trend Perspective: Lake Tana Ethiopia. Journal of Water Resource and Protection, 2017, 09, 1564-1585.	0.8	22
94	Controls Influencing the Treatment of Excess Agricultural Nitrate with Denitrifying Bioreactors. Journal of Environmental Quality, 2016, 45, 772-778.	2.0	30
95	Effects of a deep-rooted crop and soil amended with charcoal on spatial and temporal runoff patterns in a degrading tropical highland watershed. Hydrology and Earth System Sciences, 2016, 20, 875-885.	4.9	22
96	Sediment concentration rating curves for a monsoonal climate: upper Blue Nile. Soil, 2016, 2, 337-349.	4.9	23
97	Morphological dynamics of gully systems in the subhumid Ethiopian Highlands: the Debre Mawi watershed. Soil, 2016, 2, 443-458.	4.9	55
98	Nitrous Oxide and Methane Fluxes from Smallholder Farms: A Scoping Study in the Anjeni Watershed. Climate, 2016, 4, 62.	2.8	2
99	Spring-Thaw Nitrous Oxide Emissions from Reed Canarygrass on Wetness-Prone Marginal Soil in New York State. Soil Science Society of America Journal, 2016, 80, 428-437.	2.2	1
100	A Biophysical and Economic Assessment of a Communityâ€based Rehabilitated Gully in the Ethiopian Highlands. Land Degradation and Development, 2016, 27, 270-280.	3.9	56
101	Revisiting storm runoff processes in the upper Blue Nile basin: The Debre Mawi watershed. Catena, 2016, 143, 47-56.	5.0	31
102	Nonâ€Point Source Pollution of Dissolved Phosphorus in the Ethiopian Highlands: The Awramba Watershed Near Lake Tana. Clean - Soil, Air, Water, 2016, 44, 703-709.	1.1	16
103	Impact of urban development on streamflow regime of a Portuguese peri-urban Mediterranean catchment. Journal of Soils and Sediments, 2016, 16, 2580-2593.	3.0	25
104	Impact of conservation practices on runoff and soil loss in the sub-humid Ethiopian Highlands: The Debre Mawi watershed. Journal of Hydrology and Hydromechanics, 2015, 63, 210-219.	2.0	96
105	Improving efficacy of landscape interventions in the (sub) humid Ethiopian highlands by improved understanding of runoff processes. Frontiers in Earth Science, 2015, 3, .	1.8	18
106	Recharge and Groundwater Use in the North China Plain for Six Irrigated Crops for an Eleven Year Period. PLoS ONE, 2015, 10, e0115269.	2.5	58
107	Distributed discharge and sediment concentration predictions in the subâ€humid Ethiopian highlands: the Debre Mawi watershed. Hydrological Processes, 2015, 29, 1817-1828.	2.6	48
108	Untapped Potential: Opportunities and Challenges for Sustainable Bioenergy Production from Marginal Lands in the Northeast USA. Bioenergy Research, 2015, 8, 482-501.	3.9	79

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109	Morphological changes of Gumara River channel over 50 years, upper Blue Nile basin, Ethiopia. Journal of Hydrology, 2015, 525, 152-164.	5.4	67
110	Variable Source Area Hydrology Modeling with the Water Erosion Prediction Project Model. Journal of the American Water Resources Association, 2015, 51, 330-342.	2.4	21
111	Evaluation of stream water quality data generated from MODIS images in modeling total suspended solid emission to a freshwater lake. Science of the Total Environment, 2015, 523, 170-177.	8.0	29
112	Assessing the potential of biochar and charcoal to improve soil hydraulic properties in the humid Ethiopian Highlands: The Anjeni watershed. Geoderma, 2015, 243-244, 115-123.	5.1	78
113	Assessment of surface water irrigation potential in the Ethiopian highlands: The Lake Tana Basin. Catena, 2015, 129, 76-85.	5.0	75
114	Agricultural <scp>BMP</scp> Effectiveness and Dominant Hydrological Flow Paths: Concepts and a Review. Journal of the American Water Resources Association, 2015, 51, 305-329.	2.4	51
115	Featured Collection Introduction: Synthesis and Analysis of Conservation Effects Assessment Projects for Improved Water Quality. Journal of the American Water Resources Association, 2015, 51, 302-304.	2.4	1
116	Assessing the potential of MODIS/Terra version 5 images to improve near shore lake bathymetric surveys. International Journal of Applied Earth Observation and Geoinformation, 2015, 36, 13-21.	2.8	11
117	Learning from the scientific legacies of W. Brutsaert and J.-Y. Parlange. Water Resources Research, 2014, 50, 1856-1857.	4.2	0
118	Comparison of rainfall estimations by TRMM 3B42, MPEG and CFSR with ground-observed data for the Lake Tana basin in Ethiopia. Hydrology and Earth System Sciences, 2014, 18, 4871-4881.	4.9	109
119	Biohydrology of low flows in the humid Ethiopian highlands: The Gilgel Abay catchment. Biologia (Poland), 2014, 69, 1502-1509.	1.5	26
120	Evaluation of spatial interpolation methods for groundwater level in an arid inland oasis, northwest China. Environmental Earth Sciences, 2014, 71, 1911-1924.	2.7	54
121	Spatial evidence of cross-crop pesticide contamination in small-holder Thai farms. Agronomy for Sustainable Development, 2014, 34, 773-782.	5.3	2
122	Using the Climate Forecast System Reanalysis as weather input data for watershed models. Hydrological Processes, 2014, 28, 5613-5623.	2.6	302
123	<scp>SWAT</scp>model: A Multiâ€Operating System, Multiâ€Platform <scp>SWAT</scp> Model Package in R. Journal of the American Water Resources Association, 2014, 50, 1349-1353.	2.4	17
124	Combined effect of soil bund with biological soil and water conservation measures in the northwestern Ethiopian highlands. Ecohydrology and Hydrobiology, 2014, 14, 192-199.	2.3	88
125	Evaluating suitability of MODIS-Terra images for reproducing historic sediment concentrations in water bodies: Lake Tana, Ethiopia. International Journal of Applied Earth Observation and Geoinformation, 2014, 26, 286-297.	2.8	44
126	Capillary pressure overshoot for unstable wetting fronts is explained by Hoffman's velocityâ€dependent contactâ€angle relationship. Water Resources Research, 2014, 50, 5290-5297.	4.2	16

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127	Soil Erosion and Discharge in the Blue Nile Basin: Trends and Challenges. , 2014, , 133-147.		10
128	Phosphorus Modeling, in Lake Tana Basin, Ethiopia. Journal of Environment and Human, 2014, 2014, 47-55.	0.2	4
129	Streamflow Responses to Climate Change: Analysis of Hydrologic Indicators in a New York City Water Supply Watershed. Journal of the American Water Resources Association, 2013, 49, 1308-1326.	2.4	35
130	Determinants of household participation in the management of rural water supply systems: A case from Ethiopia. Water Policy, 2013, 15, 985-1000.	1.5	9
131	Evaluating the bio-hydrological impact of a cloud forest in Central America using a semi-distributed water balance model. Journal of Hydrology and Hydromechanics, 2013, 61, 9-20b.	2.0	29
132	Pore scale consideration in unstable gravity driven finger flow. Water Resources Research, 2013, 49, 7815-7819.	4.2	15
133	Rainâ€onâ€snow runoff events in New York. Hydrological Processes, 2013, 27, 3035-3049.	2.6	37
134	Eco-hydrological impacts of Eucalyptus in the semi humid Ethiopian Highlands: the Lake Tana Plain. Journal of Hydrology and Hydromechanics, 2013, 61, 21-29b.	2.0	63
135	Suspended sediment concentrationâ€“discharge relationships in the (sub-) humid Ethiopian highlands. Hydrology and Earth System Sciences, 2013, 17, 1067-1077.	4.9	78
136	Real-Time Forecast of Hydrologically Sensitive Areas in the Salmon Creek Watershed, New York State, Using an Online Prediction Tool. Water (Switzerland), 2013, 5, 917-944.	2.7	9
137	A Saturation Excess Erosion Model. Transactions of the ASABE, 2013, 56, 681-695.	1.1	39
138	A Saturated Excess Runoff Pedotransfer Function for Vegetated Watersheds. Vadose Zone Journal, 2013, 12, 1-10.	2.2	23
139	Temporal Variability of Nitrous Oxide from Fertilized Croplands: Hot Moment Analysis. Soil Science Society of America Journal, 2012, 76, 1728-1740.	2.2	71
140	A Simple Processâ€Based Snowmelt Routine to Model Spatially Distributed Snow Depth and Snowmelt in the SWAT Model¹. Journal of the American Water Resources Association, 2012, 48, 1151-1161.	2.4	21
141	Field Test of the Variable Source Area Interpretation of the Curve Number Rainfall-Runoff Equation. Journal of Irrigation and Drainage Engineering - ASCE, 2012, 138, 235-244.	1.0	17
142	Economic Analysis of Best Management Practices to Reduce Watershed Phosphorus Losses. Journal of Environmental Quality, 2012, 41, 855-864.	2.0	17
143	Estimation of Small Reservoir Storage Capacities with Remote Sensing in the Brazilian Savannah Region. Water Resources Management, 2012, 26, 873-882.	3.9	90
144	Rainfall Runoff Relationships for a Cloud Forest Watershed in Central America: Implications for Water Resource Engineering¹. Journal of the American Water Resources Association, 2012, 48, 1022-1031.	2.4	10

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145	Dissecting the variable source area concept â€“ Subsurface flow pathways and water mixing processes in a hillslope. Journal of Hydrology, 2012, 420-421, 125-141.	5.4	60
146	Development and application of a physically based landscape water balance in the SWAT model. Hydrological Processes, 2011, 25, 915-925.	2.6	99
147	A simple concept for calibrating runoff thresholds in quasiâ€distributed variable source area watershed models. Hydrological Processes, 2011, 25, 3131-3143.	2.6	22
148	COMPARISON OF LANDUSE AND LANDCOVER CHANGES, DRIVERS AND IMPACTS FOR A MOISTURE-SUFFICIENT AND DROUGHT-PRONE REGION IN THE ETHIOPIAN HIGHLANDS. Experimental Agriculture, 2011, 47, 71-83.	0.9	8
149	Nitrous Oxide from Heterogeneous Agricultural Landscapes: Source Contribution Analysis by Eddy Covariance and Chambers. Soil Science Society of America Journal, 2011, 75, 1829-1838.	2.2	35
150	Watershed Hydrology of the (Semi) Humid Ethiopian Highlands. , 2011, , 145-162.		23
151	Relating hydrogeomorphic properties to stream buffering chemistry in the Neversink River watershed, New York State, USA. Hydrological Processes, 2010, 24, 3759-3771.	2.6	11
152	Trends in rainfall and runoff in the Blue Nile Basin: 1964â€“2003. Hydrological Processes, 2010, 24, 3747-3758.	2.6	121
153	Transport and retention of biochar particles in porous media: effect of pH, ionic strength, and particle size. Ecohydrology, 2010, 3, 497-508.	2.4	109
154	Are runoff processes ecologically or topographically driven in the (sub) humid Ethiopian highlands? The case of the Maybar watershed. Ecohydrology, 2010, 3, 457-466.	2.4	81
155	Effect of Soil Reduction on Phosphorus Sorption of an Organicâ€Rich Silt Loam. Soil Science Society of America Journal, 2010, 74, 240-249.	2.2	23
156	The Hydrological Effects of Lateral Preferential Flow Paths in a Glaciated Watershed in the Northeastern USA. Vadose Zone Journal, 2010, 9, 397-414.	2.2	24
157	Assessment of soil erosion processes and farmer perception of land conservation in Debre Mewi watershed near Lake Tana, Ethiopia. Ecohydrology and Hydrobiology, 2010, 10, 297-306.	2.3	70
158	Grain Surfaceâ€Roughness Effects on Colloidal Retention in the Vadose Zone. Vadose Zone Journal, 2009, 8, 11-20.	2.2	72
159	Including Source-Specific Phosphorus Mobility in a Nonpoint Source Pollution Model for Agricultural Watersheds. Journal of Environmental Engineering, ASCE, 2009, 135, 25-35.	1.4	14
160	Suitability and Limitations of ENVISAT ASAR for Monitoring Small Reservoirs in a Semiarid Area. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1536-1547.	6.3	31
161	Predicting discharge and sediment for the Abay (Blue Nile) with a simple model. Hydrological Processes, 2009, 23, 3728-3737.	2.6	87
162	A simple semiâ€distributed water balance model for the Ethiopian highlands. Hydrological Processes, 2009, 23, 3718-3727.	2.6	37

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163	Modelling variable source area dynamics in a CEAP watershed. Ecohydrology, 2009, 2, 337-349.	2.4	28
164	The impact of biofilm-forming potential and tafi production on transport of environmental Salmonella through unsaturated porous media. Biologia (Poland), 2009, 64, 460-464.	1.5	11
165	Transport and retention of colloidal particles in partially saturated porous media: Effect of ionic strength. Water Resources Research, 2009, 45, .	4.2	28
166	Gaseous Nitrogen Emission from Soil Aggregates as Affected by Clay Mineralogy and Repeated Urine Applications. Water, Air, and Soil Pollution, 2008, 195, 285-299.	2.4	4
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