

Tammo Steenhuis

List of Publications by Year in descending order

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229
papers

8,365
citations

47409

49
h-index

84171

75
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258
all docs

258
docs citations

258
times ranked

7556
citing authors

#	ARTICLE	IF	CITATIONS
1	Using the Climate Forecast System Reanalysis as weather input data for watershed models. <i>Hydrological Processes</i> , 2014, 28, 5613-5623.	1.1	302
2	Re-conceptualizing the soil and water assessment tool (SWAT) model to predict runoff from variable source areas. <i>Journal of Hydrology</i> , 2008, 348, 279-291.	2.3	239
3	A soil-water-balance approach to quantify groundwater recharge from irrigated cropland in the North China Plain. <i>Hydrological Processes</i> , 2003, 17, 2011-2031.	1.1	208
4	SCS Runoff Equation Revisited for Variable-Source Runoff Areas. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1995, 121, 234-238.	0.6	204
5	Groundwater recharge from irrigated cropland in the North China Plain: case study of Luancheng County, Hebei Province, 1949-2000. <i>Hydrological Processes</i> , 2004, 18, 2289-2302.	1.1	181
6	Preferential Flow in Water-Repellent Sands. <i>Soil Science Society of America Journal</i> , 1998, 62, 1185-1190.	1.2	180
7	A GIS-based variable source area hydrology model. <i>Hydrological Processes</i> , 1999, 13, 805-822.	1.1	179
8	Incorporating variable source area hydrology into a curve-number-based watershed model. <i>Hydrological Processes</i> , 2007, 21, 3420-3430.	1.1	148
9	Using a topographic index to distribute variable source area runoff predicted with the SCS curve-number equation. <i>Hydrological Processes</i> , 2004, 18, 2757-2771.	1.1	138
10	Trends in rainfall and runoff in the Blue Nile Basin: 1964-2003. <i>Hydrological Processes</i> , 2010, 24, 3747-3758.	1.1	121
11	Identifying hydrologically sensitive areas: Bridging the gap between science and application. <i>Journal of Environmental Management</i> , 2006, 78, 63-76.	3.8	115
12	Transport and retention of biochar particles in porous media: effect of pH, ionic strength, and particle size. <i>Ecohydrology</i> , 2010, 3, 497-508.	1.1	109
13	Comparison of rainfall estimations by TRMM 3B42, MPEG and CFSR with ground-observed data for the Lake Tana basin in Ethiopia. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4871-4881.	1.9	109
14	Effect of grid size on runoff and soil moisture for a variable-source-area hydrology model. <i>Water Resources Research</i> , 1999, 35, 3419-3428.	1.7	105
15	Development and application of a physically based landscape water balance in the SWAT model. <i>Hydrological Processes</i> , 2011, 25, 915-925.	1.1	99
16	Impact of conservation practices on runoff and soil loss in the sub-humid Ethiopian Highlands: The Debre Mawi watershed. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 210-219.	0.7	96
17	Performance of in situ rainwater conservation tillage techniques on dry spell mitigation and erosion control in the drought-prone North Wello zone of the Ethiopian highlands. <i>Soil and Tillage Research</i> , 2007, 97, 19-36.	2.6	92
18	Estimation of Small Reservoir Storage Capacities with Remote Sensing in the Brazilian Savannah Region. <i>Water Resources Management</i> , 2012, 26, 873-882.	1.9	90

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19	Combined effect of soil bund with biological soil and water conservation measures in the northwestern Ethiopian highlands. <i>Ecohydrology and Hydrobiology</i> , 2014, 14, 192-199.	1.0	88
20	Predicting discharge and sediment for the Abay (Blue Nile) with a simple model. <i>Hydrological Processes</i> , 2009, 23, 3728-3737.	1.1	87
21	Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Media. <i>Vadose Zone Journal</i> , 2004, 3, 444-450.	1.3	85
22	Rainfall–discharge relationships for a monsoonal climate in the Ethiopian highlands. <i>Hydrological Processes</i> , 2008, 22, 1059-1067.	1.1	81
23	Are runoff processes ecologically or topographically driven in the (sub) humid Ethiopian highlands? The case of the Maybar watershed. <i>Ecohydrology</i> , 2010, 3, 457-466.	1.1	81
24	Comparison of Ground Penetrating Radar and Time-Domain Reflectometry as Soil Water Sensors. <i>Soil Science Society of America Journal</i> , 1998, 62, 1237-1239.	1.2	79
25	Untapped Potential: Opportunities and Challenges for Sustainable Bioenergy Production from Marginal Lands in the Northeast USA. <i>Bioenergy Research</i> , 2015, 8, 482-501.	2.2	79
26	Preferential Movement of Pesticides and Tracers in Agricultural Soils. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1990, 116, 50-66.	0.6	78
27	Refined conceptualization of TOPMODEL for shallow subsurface flows. <i>Hydrological Processes</i> , 2002, 16, 2041-2046.	1.1	78
28	Suspended sediment concentration–discharge relationships in the (sub-) humid Ethiopian highlands. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1067-1077.	1.9	78
29	Assessing the potential of biochar and charcoal to improve soil hydraulic properties in the humid Ethiopian Highlands: The Anjeni watershed. <i>Geoderma</i> , 2015, 243-244, 115-123.	2.3	78
30	Assessment of surface water irrigation potential in the Ethiopian highlands: The Lake Tana Basin. <i>Catena</i> , 2015, 129, 76-85.	2.2	75
31	Transport and Retention Mechanisms of Colloids in Partially Saturated Porous Media. <i>Vadose Zone Journal</i> , 2005, 4, 184-195.	1.3	72
32	Grain Surface Roughness Effects on Colloidal Retention in the Vadose Zone. <i>Vadose Zone Journal</i> , 2009, 8, 11-20.	1.3	72
33	Temporal Variability of Nitrous Oxide from Fertilized Croplands: Hot Moment Analysis. <i>Soil Science Society of America Journal</i> , 2012, 76, 1728-1740.	1.2	71
34	Assessment of soil erosion processes and farmer perception of land conservation in Debre Mewi watershed near Lake Tana, Ethiopia. <i>Ecohydrology and Hydrobiology</i> , 2010, 10, 297-306.	1.0	70
35	Morphological changes of Gumara River channel over 50 years, upper Blue Nile basin, Ethiopia. <i>Journal of Hydrology</i> , 2015, 525, 152-164.	2.3	67
36	Transport and Retention Mechanisms of Colloids in Partially Saturated Porous Media. <i>Vadose Zone Journal</i> , 2005, 4, 184.	1.3	65

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37	Simple Estimation of Prevalence of Hortonian Flow in New York City Watersheds. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003, 8, 214-218.	0.8	63
38	Capillary retention of colloids in unsaturated porous media. <i>Water Resources Research</i> , 2008, 44, .	1.7	63
39	Eco-hydrological impacts of Eucalyptus in the semi humid Ethiopian Highlands: the Lake Tana Plain. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 21-29b.	0.7	63
40	Noninvasive Time Domain Reflectometry Moisture Measurement Probe. <i>Soil Science Society of America Journal</i> , 1993, 57, 934-936.	1.2	62
41	Dissecting the variable source area concept " Subsurface flow pathways and water mixing processes in a hillslope. <i>Journal of Hydrology</i> , 2012, 420-421, 125-141.	2.3	60
42	Recharge and Groundwater Use in the North China Plain for Six Irrigated Crops for an Eleven Year Period. <i>PLoS ONE</i> , 2015, 10, e0115269.	1.1	58
43	Hydrologic assessment of an urban variable source watershed in the northeast United States. <i>Water Resources Research</i> , 2007, 43, .	1.7	57
44	A Biophysical and Economic Assessment of a Community-based Rehabilitated Gully in the Ethiopian Highlands. <i>Land Degradation and Development</i> , 2016, 27, 270-280.	1.8	56
45	Morphological dynamics of gully systems in the subhumid Ethiopian Highlands: the Debre Mawi watershed. <i>Soil</i> , 2016, 2, 443-458.	2.2	55
46	Evaluation of spatial interpolation methods for groundwater level in an arid inland oasis, northwest China. <i>Environmental Earth Sciences</i> , 2014, 71, 1911-1924.	1.3	54
47	Preferential Flow and Transport of <i>Cryptosporidium parvum</i> Oocysts through the Vadose Zone: Experiments and Modeling. <i>Vadose Zone Journal</i> , 2004, 3, 262-270.	1.3	53
48	Evaluating hydrologic responses to soil characteristics using SWAT model in a paired-watersheds in the Upper Blue Nile Basin. <i>Catena</i> , 2018, 163, 332-341.	2.2	53
49	Application of SMR to Modeling Watersheds in the Catskill Mountains. <i>Environmental Modeling and Assessment</i> , 2004, 9, 77-89.	1.2	51
50	Agricultural <i>BMP</i> Effectiveness and Dominant Hydrological Flow Paths: Concepts and a Review. <i>Journal of the American Water Resources Association</i> , 2015, 51, 305-329.	1.0	51
51	Seasonal performance of denitrifying bioreactors in the Northeastern United States: Field trials. <i>Journal of Environmental Management</i> , 2017, 202, 242-253.	3.8	49
52	Analysis of a rural water supply project in three communities in Mali: Participation and sustainability. <i>Natural Resources Forum</i> , 2007, 31, 142-150.	1.8	48
53	Distributed discharge and sediment concentration predictions in the sub-humid Ethiopian highlands: the Debre Mawi watershed. <i>Hydrological Processes</i> , 2015, 29, 1817-1828.	1.1	48
54	Measurement of groundwater recharge on eastern Long Island, New York, U.S.A.. <i>Journal of Hydrology</i> , 1985, 79, 145-169.	2.3	47

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55	Water accounting for conjunctive groundwater/surface water management: case of the Singkarakâ€“Ombilin River basin, Indonesia. <i>Journal of Hydrology</i> , 2004, 292, 1-22.	2.3	45
56	Evaluating suitability of MODIS-Terra images for reproducing historic sediment concentrations in water bodies: Lake Tana, Ethiopia. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 26, 286-297.	1.4	44
57	Performance of bias corrected MPEG rainfall estimate for rainfall-runoff simulation in the upper Blue Nile Basin, Ethiopia. <i>Journal of Hydrology</i> , 2018, 556, 1182-1191.	2.3	44
58	Pore-Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Media. <i>Vadose Zone Journal</i> , 2004, 3, 444-450.	1.3	43
59	Evaluation of spring flow in the uplands of Matalom, Leyte, Philippines. <i>Advances in Water Resources</i> , 2005, 28, 1083-1090.	1.7	42
60	Detection of glyphosate residues in companion animal feeds. <i>Environmental Pollution</i> , 2018, 243, 1113-1118.	3.7	42
61	High Intensity Xâ€“Ray and Tensiometer Measurements in Rapidly Changing Preferential Flow Fields. <i>Soil Science Society of America Journal</i> , 1993, 57, 1188-1192.	1.2	40
62	Characterization of Degraded Soils in the Humid Ethiopian Highlands. <i>Land Degradation and Development</i> , 2017, 28, 1891-1901.	1.8	40
63	The desorption of silver and thallium from soils in the presence of a chelating resin with thiol functional groups. <i>Water, Air, and Soil Pollution</i> , 2005, 160, 41-54.	1.1	39
64	Water use and productivity of two small reservoir irrigation schemes in Ghana's upper east region. <i>Irrigation and Drainage</i> , 2008, 57, 151-163.	0.8	39
65	A Saturation Excess Erosion Model. <i>Transactions of the ASABE</i> , 2013, 56, 681-695.	1.1	39
66	A simple semiâ€“distributed water balance model for the Ethiopian highlands. <i>Hydrological Processes</i> , 2009, 23, 3718-3727.	1.1	37
67	Rainâ€“snow runoff events in New York. <i>Hydrological Processes</i> , 2013, 27, 3035-3049.	1.1	37
68	The hydrology of inland valleys in the sub-humid zone of West Africa: rainfall-runoff processes in the M'bâ€“ experimental watershed. <i>Hydrological Processes</i> , 2003, 17, 1213-1225.	1.1	36
69	Nitrous Oxide from Heterogeneous Agricultural Landscapes: Source Contribution Analysis by Eddy Covariance and Chambers. <i>Soil Science Society of America Journal</i> , 2011, 75, 1829-1838.	1.2	35
70	Streamflow Responses to Climate Change: Analysis of Hydrologic Indicators in a New York City Water Supply Watershed. <i>Journal of the American Water Resources Association</i> , 2013, 49, 1308-1326.	1.0	35
71	Causes and Controlling Factors of Valley Bottom Gullies. <i>Land</i> , 2019, 8, 141.	1.2	35
72	Budgeting suspended sediment fluxes in tropical monsoonal watersheds with limited data: the Lake Tana basin. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 65-78.	0.7	34

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73	Erosion hotspot identification in the sub-humid Ethiopian highlands. <i>Ecohydrology and Hydrobiology</i> , 2019, 19, 146-154.	1.0	34
74	Deficit irrigation enhances contribution of shallow groundwater to crop water consumption in arid area. <i>Agricultural Water Management</i> , 2017, 185, 116-125.	2.4	33
75	Predicting saturationâ€‘excess runoff distribution with a lumped hillslope model: SWATâ€‘HS. <i>Hydrological Processes</i> , 2017, 31, 2226-2243.	1.1	33
76	Modeling contribution of shallow groundwater to evapotranspiration and yield of maize in an arid area. <i>Scientific Reports</i> , 2017, 7, 43122.	1.6	33
77	Gully Head Retreat in the Subâ€‘Humid Ethiopian Highlands: The Eneâ€‘Chilala Catchment. <i>Land Degradation and Development</i> , 2017, 28, 1579-1588.	1.8	33
78	Gullies, a critical link in landscape soil loss: A case study in the subhumid highlands of Ethiopia. <i>Land Degradation and Development</i> , 2018, 29, 1222-1232.	1.8	33
79	Equation for Describing Solute Transport in Field Soils with Preferential Flow Paths. <i>Soil Science Society of America Journal</i> , 2005, 69, 291-300.	1.2	33
80	Quantifying colloid retention in partially saturated porous media. <i>Water Resources Research</i> , 2006, 42, .	1.7	32
81	Effect of Ionic Strength on the Transport and Retention of Polyacrylamide Microspheres in Reservoir Water Shutoff Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8158-8168.	1.8	32
82	Suitability and Limitations of ENVISAT ASAR for Monitoring Small Reservoirs in a Semiarid Area. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1536-1547.	2.7	31
83	Revisiting storm runoff processes in the upper Blue Nile basin: The Debre Mawi watershed. <i>Catena</i> , 2016, 143, 47-56.	2.2	31
84	Root reinforcement to soils provided by common Ethiopian highland plants for gully erosion control. <i>Ecohydrology</i> , 2018, 11, e1940.	1.1	31
85	One-Dimensional Model to Evaluate the Performance of Wick Samplers in Soils. <i>Soil Science Society of America Journal</i> , 1995, 59, 88-92.	1.2	30
86	Controls Influencing the Treatment of Excess Agricultural Nitrate with Denitrifying Bioreactors. <i>Journal of Environmental Quality</i> , 2016, 45, 772-778.	1.0	30
87	Evaluating infiltration models and pedotransfer functions: Implications for hydrologic modeling. <i>Geoderma</i> , 2019, 338, 159-169.	2.3	30
88	Diversified crop rotations enhance groundwater and economic sustainability of food production. <i>Food and Energy Security</i> , 2021, 10, e311.	2.0	30
89	Preferential Flow and Transport of Oocysts through the Vadose Zone. <i>Vadose Zone Journal</i> , 2004, 3, 262.	1.3	30
90	Evaluating the bio-hydrological impact of a cloud forest in Central America using a semi-distributed water balance model. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 9-20b.	0.7	29

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91	Evaluation of stream water quality data generated from MODIS images in modeling total suspended solid emission to a freshwater lake. <i>Science of the Total Environment</i> , 2015, 523, 170-177.	3.9	29
92	Longâ€Term Landscape Changes in the Lake Tana Basin as Evidenced by Delta Development and Floodplain Aggradation in Ethiopia. <i>Land Degradation and Development</i> , 2017, 28, 1820-1830.	1.8	29
93	The link between hydrology and restoration of tidal marshes in the New York/New Jersey Estuary. <i>Wetlands</i> , 2004, 24, 414-425.	0.7	28
94	Modelling variable source area dynamics in a CEAP watershed. <i>Ecohydrology</i> , 2009, 2, 337-349.	1.1	28
95	Transport and retention of colloidal particles in partially saturated porous media: Effect of ionic strength. <i>Water Resources Research</i> , 2009, 45, .	1.7	28
96	Suitability of Watershed Models to Predict Distributed Hydrologic Response in the Awramba Watershed in Lake Tana Basin. <i>Land Degradation and Development</i> , 2017, 28, 1386-1397.	1.8	28
97	Biohydrology of low flows in the humid Ethiopian highlands: The Gilgel Abay catchment. <i>Biologia (Poland)</i> , 2014, 69, 1502-1509.	0.8	26
98	Identifying dissolved phosphorus source areas and predicting transport from an urban watershed using distributed hydrologic modeling. <i>Water Resources Research</i> , 2007, 43, .	1.7	25
99	Impact of urban development on streamflow regime of a Portuguese peri-urban Mediterranean catchment. <i>Journal of Soils and Sediments</i> , 2016, 16, 2580-2593.	1.5	25
100	Sediment Loss Patterns in the Subâ€Humid Ethiopian Highlands. <i>Land Degradation and Development</i> , 2017, 28, 1795-1805.	1.8	25
101	Determination of hydraulic behavior of hillsides with a hillslope infiltrometer. <i>Soil Science Society of America Journal</i> , 2002, 66, 1501-1504.	1.2	24
102	Drying front in a sloping aquifer: Nonlinear effects. <i>Water Resources Research</i> , 2004, 40, .	1.7	24
103	Biocolloid retention in partially saturated soils. <i>Biologia (Poland)</i> , 2006, 61, S229-S233.	0.8	24
104	The Hydrological Effects of Lateral Preferential Flow Paths in a Glaciated Watershed in the Northeastern USA. <i>Vadose Zone Journal</i> , 2010, 9, 397-414.	1.3	24
105	Effect of Soil Reduction on Phosphorus Sorption of an Organicâ€Rich Silt Loam. <i>Soil Science Society of America Journal</i> , 2010, 74, 240-249.	1.2	23
106	Sediment concentration rating curves for a monsoonal climate: upper Blue Nile. <i>Soil</i> , 2016, 2, 337-349.	2.2	23
107	Modeling discharge and sediment concentrations after landscape interventions in a humid monsoon climate: The Anjeni watershed in the highlands of Ethiopia. <i>Hydrological Processes</i> , 2017, 31, 1239-1257.	1.1	23
108	Mitigating Groundwater Depletion in North China Plain with Cropping System that Alternate Deep and Shallow Rooted Crops. <i>Frontiers in Plant Science</i> , 2017, 8, 980.	1.7	23

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109	Evaluating erosion control practices in an actively gullyng watershed in the highlands of Ethiopia. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2835-2843.	1.2	23
110	Deep Tillage Improves Degraded Soils in the (Sub) Humid Ethiopian Highlands. <i>Land</i> , 2019, 8, 159.	1.2	23
111	Impact of Soil Conservation and Eucalyptus on Hydrology and Soil Loss in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2019, 11, 2299.	1.2	23
112	Improving watershed management practices in humid regions. <i>Hydrological Processes</i> , 2017, 31, 3294-3301.	1.1	23
113	Watershed Hydrology of the (Semi) Humid Ethiopian Highlands. , 2011, , 145-162.		23
114	A Saturated Excess Runoff Pedotransfer Function for Vegetated Watersheds. <i>Vadose Zone Journal</i> , 2013, 12, 1-10.	1.3	23
115	Preferential Movement of Oxygen in Soils?. <i>Soil Science Society of America Journal</i> , 1997, 61, 1607-1610.	1.2	22
116	Enhancement of seepage and lateral preferential flow by biopores on hillslopes. <i>Biologia (Poland)</i> , 2006, 61, S225-S228.	0.8	22
117	A simple concept for calibrating runoff thresholds in quasi-distributed variable source area watershed models. <i>Hydrological Processes</i> , 2011, 25, 3131-3143.	1.1	22
118	Effects of a deep-rooted crop and soil amended with charcoal on spatial and temporal runoff patterns in a degrading tropical highland watershed. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 875-885.	1.9	22
119	Effects of land use on catchment runoff and soil loss in the sub-humid Ethiopian highlands. <i>Ecohydrology and Hydrobiology</i> , 2017, 17, 274-282.	1.0	22
120	Water Quality Assessment by Measuring and Using Landsat 7 ETM+ Images for the Current and Previous Trend Perspective: Lake Tana Ethiopia. <i>Journal of Water Resource and Protection</i> , 2017, 09, 1564-1585.	0.3	22
121	Movement of Heavy Metals in Soil through Preferential Flow Paths under Different Rainfall Intensities. <i>Clean - Soil, Air, Water</i> , 2008, 36, 984-989.	0.7	21
122	A Simple Process-Based Snowmelt Routine to Model Spatially Distributed Snow Depth and Snowmelt in the SWAT Model. <i>Journal of the American Water Resources Association</i> , 2012, 48, 1151-1161.	1.0	21
123	Variable Source Area Hydrology Modeling with the Water Erosion Prediction Project Model. <i>Journal of the American Water Resources Association</i> , 2015, 51, 330-342.	1.0	21
124	Establishing irrigation potential of a hillside aquifer in the African highlands. <i>Hydrological Processes</i> , 2020, 34, 1741-1753.	1.1	21
125	Hydrological Foundation as a Basis for a Holistic Environmental Flow Assessment of Tropical Highland Rivers in Ethiopia. <i>Water (Switzerland)</i> , 2020, 12, 547.	1.2	21
126	A simple model for predicting water table fluctuations in a tidal marsh. <i>Water Resources Research</i> , 2007, 43, .	1.7	20

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127	Watershed modeling for reducing future non-point source sediment and phosphorus load in the Lake Tana Basin, Ethiopia. <i>Journal of Soils and Sediments</i> , 2018, 18, 309-322.	1.5	20
128	Impact of Soil Depth and Topography on the Effectiveness of Conservation Practices on Discharge and Soil Loss in the Ethiopian Highlands. <i>Land</i> , 2017, 6, 78.	1.2	19
129	Effect of Peri-urban Development and Lithology on Streamflow in a Mediterranean Catchment. <i>Land Degradation and Development</i> , 2018, 29, 1141-1153.	1.8	19
130	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. <i>Journal of Environmental Management</i> , 2020, 270, 110885.	3.8	19
131	Sustainable futures over the next decade are rooted in soil science. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	19
132	The long-term effect of sludge application on Cu, Zn, and Mo behavior in soils and accumulation in soybean seeds. <i>Plant and Soil</i> , 2007, 299, 227-236.	1.8	18
133	Improving efficacy of landscape interventions in the (sub) humid Ethiopian highlands by improved understanding of runoff processes. <i>Frontiers in Earth Science</i> , 2015, 3, .	0.8	18
134	Conservation Agriculture Saves Irrigation Water in the Dry Monsoon Phase in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2019, 11, 2103.	1.2	18
135	Application of denitrifying bioreactors for the removal of atrazine in agricultural drainage water. <i>Journal of Environmental Management</i> , 2019, 239, 48-56.	3.8	18
136	Predicting Shallow Groundwater Tables for Sloping Highland Aquifers. <i>Water Resources Research</i> , 2019, 55, 11088-11100.	1.7	18
137	Transport and Retention Behaviors of Deformable Polyacrylamide Microspheres in Convergent-Divergent Microchannels. <i>Environmental Science & Technology</i> , 2020, 54, 10876-10884.	4.6	18
138	Water Balance for a Tropical Lake in the Volcanic Highlands: Lake Tana, Ethiopia. <i>Water (Switzerland)</i> , 2020, 12, 2737.	1.2	18
139	Experimental Evaluation for the Impacts of Conservation Agriculture with Drip Irrigation on Crop Coefficient and Soil Properties in the Sub-Humid Ethiopian Highlands. <i>Water (Switzerland)</i> , 2020, 12, 947.	1.2	18
140	Field Test of the Variable Source Area Interpretation of the Curve Number Rainfall-Runoff Equation. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012, 138, 235-244.	0.6	17
141	Economic Analysis of Best Management Practices to Reduce Watershed Phosphorus Losses. <i>Journal of Environmental Quality</i> , 2012, 41, 855-864.	1.0	17
142	<sc>SWAT</sc> model: A Multi-Operating System, Multi-Platform <sc>SWAT</sc> Model Package in R. <i>Journal of the American Water Resources Association</i> , 2014, 50, 1349-1353.	1.0	17
143	Spatial and Temporal Trends of Recent Dissolved Phosphorus Concentrations in Lake Tana and its Four Main Tributaries. <i>Land Degradation and Development</i> , 2017, 28, 1742-1751.	1.8	17
144	The effect of input data resolution and complexity on the uncertainty of hydrological predictions in a humid vegetated watershed. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5947-5965.	1.9	17

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145	Assessment of Suitable Land for Surface Irrigation in Ungauged Catchments: Blue Nile Basin, Ethiopia. <i>Water (Switzerland)</i> , 2019, 11, 1465.	1.2	17
146	Capillary pressure overshoot for unstable wetting fronts is explained by Hoffman's velocity-dependent contact angle relationship. <i>Water Resources Research</i> , 2014, 50, 5290-5297.	1.7	16
147	Non-Point Source Pollution of Dissolved Phosphorus in the Ethiopian Highlands: The Awramba Watershed Near Lake Tana. <i>Clean - Soil, Air, Water</i> , 2016, 44, 703-709.	0.7	16
148	Modeling sediment concentration and discharge variations in a small Ethiopian watershed with contributions from an unpaved road. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 1-17.	0.7	16
149	Spatio-temporal patterns of groundwater depths and soil nutrients in a small watershed in the Ethiopian highlands: Topographic and land-use controls. <i>Journal of Hydrology</i> , 2017, 555, 420-434.	2.3	16
150	Variability of soil surface characteristics in a mountainous watershed in Valle del Cauca, Colombia: Implications for runoff, erosion, and conservation. <i>Journal of Hydrology</i> , 2019, 576, 273-286.	2.3	16
151	Nitrous Oxide and Ammonia Emissions from Urine-Treated Soils: Texture Effect. <i>Vadose Zone Journal</i> , 2006, 5, 1236-1245.	1.3	16
152	Pore scale consideration in unstable gravity driven finger flow. <i>Water Resources Research</i> , 2013, 49, 7815-7819.	1.7	15
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