Abeyou Wale Worqlul

List of Publications by Citations

56 papers	1,143 citations	20 h-index	32 g-index
59 ext. papers	1,575 ext. citations	4.3 avg, IF	4.91 L-index

#	Paper	IF	Citations
56	Modeling the hydrological impacts of land use/land cover changes in the Andassa watershed, Blue Nile Basin, Ethiopia. *Science of the Total Environment*, **2018**, 619-620, 1394-1408	10.2	120
55	Estimating the impacts of land use/land cover changes on Ecosystem Service Values: The case of the Andassa watershed in the Upper Blue Nile basin of Ethiopia. *Ecosystem Services*, **2018**, 31, 219-228	6.1	114
54	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	5.5	85
53	Evaluation and prediction of land use/land cover changes in the Andassa watershed, Blue Nile Basin, Ethiopia. *Environmental Systems Research*, **2017**, 6,	4.3	65
52	Assessing potential land suitable for surface irrigation using groundwater in Ethiopia. *Applied Geography*, **2017**, 85, 1-13	4.4	63
51	Impact of Climate Change on Streamflow Hydrology in Headwater Catchments of the Upper Blue Nile Basin, Ethiopia. *Water (Switzerland)*, **2018**, 10, 120	3	53
50	Assessment of surface water irrigation potential in the Ethiopian highlands: The Lake Tana Basin. *Catena*, **2015**, 129, 76-85	5.8	48
49	Evaluation of CFSR, TMPA 3B42 and ground-based rainfall data as input for hydrological models, in data-scarce regions: The upper Blue Nile Basin, Ethiopia. *Catena*, **2017**, 152, 242-251	5.8	46
48	Advances in water resources research in the Upper Blue Nile basin and the way forward: A review. *Journal of Hydrology*, **2018**, 560, 407-423	6	38
47	Evaluating hydrologic responses to soil characteristics using SWAT model in a paired-watersheds in the Upper Blue Nile Basin. *Catena*, **2018**, 163, 332-341	5.8	35
46	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	6	33
45	Suitability mapping framework for solar photovoltaic pumps for smallholder farmers in sub-Saharan Africa. *Applied Geography*, **2018**, 94, 41-57	4.4	28
44	Identification of Erosion Hotspot Area using GIS and MCE Technique for Koga Watershed in the Upper Blue Nile Basin, Ethiopia. *American Journal of Environmental Sciences*, **2015**, 11, 245-255	0.5	26
43	Evaluation of new farming technologies in Ethiopia using the Integrated Decision Support System (IDSS). *Agricultural Water Management*, **2017**, 180, 267-279	5.9	25
42	Climate Change Impact on Sediment Yield in the Upper Gilgel Abay Catchment, Blue Nile Basin, Ethiopia. *Springer Geography*, **2016**, 615-644	0.4	24
41	Optimizing irrigation strategies to synchronously improve the yield and water productivity of winter wheat under interannual precipitation variability in the North China Plain. *Agricultural Water Management*, **2020**, 240, 106298	5.9	24
40	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, 170-7	10.2	23

39	Development of multi-model ensemble approach for enhanced assessment of impacts of climate change on climate extremes. *Science of the Total Environment*, **2020**, 704, 135357	10.2	22
38	Modeling the impacts of land use□and cover changes on soil erosion and sediment yield in the Andassa watershed, upper Blue Nile basin, Ethiopia. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	21
37	Effect of climate change on land suitability for surface irrigation and irrigation potential of the shallow groundwater in Ghana. *Computers and Electronics in Agriculture*, **2019**, 157, 110-125	6.5	20
36	Assessment of Suitable Areas for Home Gardens for Irrigation Potential, Water Availability, and Water-Lifting Technologies. *Water (Switzerland)*, **2018**, 10, 495	3	19
35	Evaluating satellite-based evapotranspiration estimates for hydrological applications in data-scarce regions: A case in Ethiopia. *Science of the Total Environment*, **2020**, 743, 140702	10.2	17
34	Economic and food security effects of small-scale irrigation technologies in northern Ghana. *Water Resources and Economics*, **2020**, 29, 100141	2	17
33	Potential of Water Hyacinth Infestation on Lake Tana, Ethiopia: A Prediction Using a GIS-Based Multi-Criteria Technique. *Water (Switzerland)*, **2019**, 11, 1921	3	16
32	Modeling the Impacts of Conservation Agriculture with a Drip Irrigation System on the Hydrology and Water Management in Sub-Saharan Africa. *Sustainability*, **2018**, 10, 4763	3.6	15
31	Experimental Evaluation of Conservation Agriculture with Drip Irrigation for Water Productivity in Sub-Saharan Africa. *Water (Switzerland)*, **2019**, 11, 530	3	13
30	Multi-Dimensional Evaluation of Simulated Small-Scale Irrigation Intervention: A Case Study in Dimbasinia Watershed, Ghana. *Sustainability*, **2018**, 10, 1531	3.6	10
29	Conservation Agriculture Saves Irrigation Water in the Dry Monsoon Phase in the Ethiopian Highlands. *Water (Switzerland)*, **2019**, 11, 2103	3	10
28	Evaluating potential impacts of land management practices on soil erosion in the Gilgel Abay watershed, upper Blue Nile basin. *Heliyon*, **2020**, 6, e04777	3.6	10
27	Evaluating InVEST model for estimating soil loss and sediment export in data scarce regions of the Abbay (Upper Blue Nile) Basin: Implications for land managers. *Environmental Challenges*, **2021**, 5, 100381	2.6	8
26	Mapping development potential of dry-season small-scale irrigation in Sub-Saharan African countries under joint biophysical and economic constraints - An agent-based modeling approach with an application to Ethiopia. *Agricultural Systems*, **2021**, 186, 102987	6.1	7
25	Spatial and Temporal Dynamics of Water Hyacinth and Its Linkage with Lake-Level Fluctuation: Lake Tana, a Sub-Humid Region of the Ethiopian Highlands. *Water (Switzerland)*, **2020**, 12, 1435	3	6
24	Soil Erosion and Discharge in the Blue Nile Basin: Trends and Challenges **2014**, 133-147		6
23	Evaluating the Effectiveness of Best Management Practices On Soil Erosion Reduction Using the SWAT Model: for the Case of Gumara Watershed, Abbay (Upper Blue Nile) Basin. *Environmental Management*, **2021**, 68, 240-261	3.1	6
22	Water resource assessment, gaps, and constraints of vegetable production in Robit and Dangishta watersheds, Upper Blue Nile Basin, Ethiopia. *Agricultural Water Management*, **2019**, 226, 105767	5.9	5

21	Evaluating Land Suitability and Potential Climate Change Impacts on Alfalfa (Medicago sativa) Production in Ethiopia. *Atmosphere*, **2020**, 11, 1124	2.7	5
20	Water Balance for a Tropical Lake in the Volcanic Highlands: Lake Tana, Ethiopia. *Water (Switzerland)*, **2020**, 12, 2737	3	5
19	Land capability classification for planning land uses in the Geleda watershed, Blue Nile Basin, Ethiopia. *Modeling Earth Systems and Environment*, **2018**, 4, 489-499	3.2	5
18	Uncertainty in a Lumped and a Semi-Distributed Model for Discharge Prediction in Ghatshila Catchment. *Water (Switzerland)*, **2018**, 10, 381	3	5
17	Climate Change Impact on Stream Flow in the Upper Gilgel Abay Catchment, Blue Nile basin, Ethiopia. *Springer Geography*, **2016**, 645-673	0.4	5
16	Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. *Hydrology*, **2020**, 7, 44	2.8	5
15	The Response of Water and Nutrient Dynamics and of Crop Yield to Conservation Agriculture in the Ethiopian Highlands. *Sustainability*, **2020**, 12, 5989	3.6	5
14	APEX-MODFLOW: A New integrated model to simulate hydrological processes in watershed systems. *Environmental Modelling and Software*, **2021**, 143, 105093	5.2	5
13	The impact of rainfall distribution methods on streamflow throughout multiple elevations in the Rocky Mountains using the APEX model-Price River watershed, Utah. *Journal of Environmental Quality*, **2021**, 50, 1395-1407	3.4	4
12	Assessing Digital Soil Inventories for Predicting Streamflow in the Headwaters of the Blue Nile. *Hydrology*, **2020**, 7, 8	2.8	4
11	Spatiotemporal Dynamics and Environmental Controlling Factors of the Lake Tana Water Hyacinth in Ethiopia. *Remote Sensing*, **2020**, 12, 2706	5	4
10	Scaling-Up Conservation Agriculture Production System with Drip Irrigation by Integrating MCE Technique and the APEX Model. *Water (Switzerland)*, **2019**, 11, 2007	3	3
9	Field and simulation-based assessment of vetivergrass bioenergy feedstock production potential in Texas. *Agronomy Journal*, **2020**, 112, 2692-2707	2.2	2
8	Self organizing hydrological processes in a runoff source area. *Catena*, **2022**, 211, 105955	5.8	2
7	Dynamics of Eutrophication and Its Linkage to Water Hyacinth on Lake Tana, Upper Blue Nile, Ethiopia: Understanding Land-Lake Interaction and Process. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2020**, 228-241	0.2	1
6	Multi-Dimensional Drought Assessment in Abbay/Upper Blue Nile Basin: The Importance of Shared Management and Regional Coordination Efforts for Mitigation. *Remote Sensing*, **2021**, 13, 1835	5	1
5	Changes in observed rainfall and temperature extremes in the Upper Blue Nile Basin of Ethiopia. *Weather and Climate Extremes*, **2022**, 37, 100468	6	1
4	Conservation and Conventional Vegetable Cultivation Increase Soil Organic Matter and Nutrients in the Ethiopian Highlands. *Water (Switzerland)*, **2022**, 14, 476	3	0

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3	Constraints of small-scale irrigated fodder production and nutrition assessment for livestock feed, a case study in Ethiopia. *Agricultural Water Management*, **2021**, 254, 106973	5.9	0
2	Identification of soil erosion hot-spot areas for prioritization of conservation measures using the SWAT model in Ribb watershed, Ethiopia. *Resources, Environment and Sustainability*, **2022**, 100059	3.2	0
1	Identification of suitable areas for fodder production in Ethiopia. *Catena*, **2022**, 213, 106154	5.8	