

Abeyou Wale Worqlul

List of Publications by Year in Descending Order

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Version: 2024-04-29

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Conservation and Conventional Vegetable Cultivation Increase Soil Organic Matter and Nutrients in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2022 , 14, 476	3	0
55	Self organizing hydrological processes in a runoff source area. <i>Catena</i> , 2022 , 211, 105955	5.8	2
54	Identification of suitable areas for fodder production in Ethiopia. <i>Catena</i> , 2022 , 213, 106154	5.8	
53	Identification of soil erosion hot-spot areas for prioritization of conservation measures using the SWAT model in Ribb watershed, Ethiopia. <i>Resources, Environment and Sustainability</i> , 2022 , 100059	3.2	0
52	Changes in observed rainfall and temperature extremes in the Upper Blue Nile Basin of Ethiopia. <i>Weather and Climate Extremes</i> , 2022 , 37, 100468	6	1
51	The impact of rainfall distribution methods on streamflow throughout multiple elevations in the Rocky Mountains using the APEX model-Price River watershed, Utah. <i>Journal of Environmental Quality</i> , 2021 , 50, 1395-1407	3.4	4
50	Multi-Dimensional Drought Assessment in Abbay/Upper Blue Nile Basin: The Importance of Shared Management and Regional Coordination Efforts for Mitigation. <i>Remote Sensing</i> , 2021 , 13, 1835	5	1
49	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. <i>Environmental Management</i> , 2021 , 68, 240-261	3.1	6
48	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. <i>Agricultural Systems</i> , 2021 , 186, 102987	6.1	7
47	Constraints of small-scale irrigated fodder production and nutrition assessment for livestock feed, a case study in Ethiopia. <i>Agricultural Water Management</i> , 2021 , 254, 106973	5.9	0
46	APEX-MODFLOW: A New integrated model to simulate hydrological processes in watershed systems. <i>Environmental Modelling and Software</i> , 2021 , 143, 105093	5.2	5
45	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. <i>Environmental Challenges</i> , 2021 , 5, 100381	2.6	8
44	Evaluating Land Suitability and Potential Climate Change Impacts on Alfalfa (<i>Medicago sativa</i>) Production in Ethiopia. <i>Atmosphere</i> , 2020 , 11, 1124	2.7	5
43	Water Balance for a Tropical Lake in the Volcanic Highlands: Lake Tana, Ethiopia. <i>Water (Switzerland)</i> , 2020 , 12, 2737	3	5
42	Optimizing irrigation strategies to synchronously improve the yield and water productivity of winter wheat under interannual precipitation variability in the North China Plain. <i>Agricultural Water Management</i> , 2020 , 240, 106298	5.9	24
41	Spatial and Temporal Dynamics of Water Hyacinth and Its Linkage with Lake-Level Fluctuation: Lake Tana, a Sub-Humid Region of the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2020 , 12, 1435	3	6
40	Field and simulation-based assessment of vetivergrass bioenergy feedstock production potential in Texas. <i>Agronomy Journal</i> , 2020 , 112, 2692-2707	2.2	2

39	Dynamics of Eutrophication and Its Linkage to Water Hyacinth on Lake Tana, Upper Blue Nile, Ethiopia: Understanding Land-Lake Interaction and Process. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020 , 228-241	0.2	1
38	Assessing Digital Soil Inventories for Predicting Streamflow in the Headwaters of the Blue Nile. <i>Hydrology</i> , 2020 , 7, 8	2.8	4
37	Development of multi-model ensemble approach for enhanced assessment of impacts of climate change on climate extremes. <i>Science of the Total Environment</i> , 2020 , 704, 135357	10.2	22
36	Evaluating potential impacts of land management practices on soil erosion in the Gilgel Abay watershed, upper Blue Nile basin. <i>Heliyon</i> , 2020 , 6, e04777	3.6	10
35	Evaluating satellite-based evapotranspiration estimates for hydrological applications in data-scarce regions: A case in Ethiopia. <i>Science of the Total Environment</i> , 2020 , 743, 140702	10.2	17
34	Spatiotemporal Dynamics and Environmental Controlling Factors of the Lake Tana Water Hyacinth in Ethiopia. <i>Remote Sensing</i> , 2020 , 12, 2706	5	4
33	Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. <i>Hydrology</i> , 2020 , 7, 44	2.8	5
32	The Response of Water and Nutrient Dynamics and of Crop Yield to Conservation Agriculture in the Ethiopian Highlands. <i>Sustainability</i> , 2020 , 12, 5989	3.6	5
31	Economic and food security effects of small-scale irrigation technologies in northern Ghana. <i>Water Resources and Economics</i> , 2020 , 29, 100141	2	17
30	Water resource assessment, gaps, and constraints of vegetable production in Robit and Dangishta watersheds, Upper Blue Nile Basin, Ethiopia. <i>Agricultural Water Management</i> , 2019 , 226, 105767	5.9	5
29	Potential of Water Hyacinth Infestation on Lake Tana, Ethiopia: A Prediction Using a GIS-Based Multi-Criteria Technique. <i>Water (Switzerland)</i> , 2019 , 11, 1921	3	16
28	Experimental Evaluation of Conservation Agriculture with Drip Irrigation for Water Productivity in Sub-Saharan Africa. <i>Water (Switzerland)</i> , 2019 , 11, 530	3	13
27	Conservation Agriculture Saves Irrigation Water in the Dry Monsoon Phase in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2019 , 11, 2103	3	10
26	Scaling-Up Conservation Agriculture Production System with Drip Irrigation by Integrating MCE Technique and the APEX Model. <i>Water (Switzerland)</i> , 2019 , 11, 2007	3	3
25	Modeling the impacts of land use and cover changes on soil erosion and sediment yield in the Andassa watershed, upper Blue Nile basin, Ethiopia. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	21
24	Effect of climate change on land suitability for surface irrigation and irrigation potential of the shallow groundwater in Ghana. <i>Computers and Electronics in Agriculture</i> , 2019 , 157, 110-125	6.5	20
23	Land capability classification for planning land uses in the Geleda watershed, Blue Nile Basin, Ethiopia. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 489-499	3.2	5
22	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	5.8	35

21	Suitability mapping framework for solar photovoltaic pumps for smallholder farmers in sub-Saharan Africa. <i>Applied Geography</i> , 2018 , 94, 41-57	4.4	28
20	Advances in water resources research in the Upper Blue Nile basin and the way forward: A review. <i>Journal of Hydrology</i> , 2018 , 560, 407-423	6	38
19	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	6	33
18	Multi-Dimensional Evaluation of Simulated Small-Scale Irrigation Intervention: A Case Study in Dimbasinia Watershed, Ghana. <i>Sustainability</i> , 2018 , 10, 1531	3.6	10
17	Impact of Climate Change on Streamflow Hydrology in Headwater Catchments of the Upper Blue Nile Basin, Ethiopia. <i>Water (Switzerland)</i> , 2018 , 10, 120	3	53
16	Uncertainty in a Lumped and a Semi-Distributed Model for Discharge Prediction in Ghatshila Catchment. <i>Water (Switzerland)</i> , 2018 , 10, 381	3	5
15	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. <i>Ecosystem Services</i> , 2018 , 31, 219-228	6.1	114
14	Assessment of Suitable Areas for Home Gardens for Irrigation Potential, Water Availability, and Water-Lifting Technologies. <i>Water (Switzerland)</i> , 2018 , 10, 495	3	19
13	Modeling the hydrological impacts of land use/land cover changes in the Andassa watershed, Blue Nile Basin, Ethiopia. <i>Science of the Total Environment</i> , 2018 , 619-620, 1394-1408	10.2	120
12	Modeling the Impacts of Conservation Agriculture with a Drip Irrigation System on the Hydrology and Water Management in Sub-Saharan Africa. <i>Sustainability</i> , 2018 , 10, 4763	3.6	15
11	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. <i>Catena</i> , 2017 , 152, 242-251	5.8	46
10	Assessing potential land suitable for surface irrigation using groundwater in Ethiopia. <i>Applied Geography</i> , 2017 , 85, 1-13	4.4	63
9	Evaluation and prediction of land use/land cover changes in the Andassa watershed, Blue Nile Basin, Ethiopia. <i>Environmental Systems Research</i> , 2017 , 6,	4.3	65
8	Evaluation of new farming technologies in Ethiopia using the Integrated Decision Support System (IDSS). <i>Agricultural Water Management</i> , 2017 , 180, 267-279	5.9	25
7	Climate Change Impact on Sediment Yield in the Upper Gilgel Abay Catchment, Blue Nile Basin, Ethiopia. <i>Springer Geography</i> , 2016 , 615-644	0.4	24
6	Climate Change Impact on Stream Flow in the Upper Gilgel Abay Catchment, Blue Nile basin, Ethiopia. <i>Springer Geography</i> , 2016 , 645-673	0.4	5
5	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, 170-7	10.2	23
4	Assessment of surface water irrigation potential in the Ethiopian highlands: The Lake Tana Basin. <i>Catena</i> , 2015 , 129, 76-85	5.8	48

3	Identification of Erosion Hotspot Area using GIS and MCE Technique for Koga Watershed in the Upper Blue Nile Basin, Ethiopia. <i>American Journal of Environmental Sciences</i> , 2015 , 11, 245-255	0.5	26
2	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	5.5	85
1	Soil Erosion and Discharge in the Blue Nile Basin: Trends and Challenges 2014 , 133-147		6