Assefa M. Melesse

List of Publications by Year
in descending order

270	9,926	36303	51608
papers	citations	51	86
		h-index	g-index

295	295	295	8341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Comprehensive Review on Water Quality Parameters Estimation Using Remote Sensing Techniques. Sensors, 2016, 16, 1298.	3.8	581
2	Application of GIS-based data driven random forest and maximum entropy models for groundwater potential mapping: A case study at Mehran Region, Iran. Catena, 2016, 137, 360-372.	5.0	408
3	Land use and climate change impacts on the hydrology of the upper Mara River Basin, Kenya: results of a modeling study to support better resource management. Hydrology and Earth System Sciences, 2011, 15, 2245-2258.	4.9	359
4	Suspended sediment load prediction of river systems: An artificial neural network approach. Agricultural Water Management, 2011, 98, 855-866.	5.6	255
5	A Coupled Remote Sensing and Simplified Surface Energy Balance Approach to Estimate Actual Evapotranspiration from Irrigated Fields. Sensors, 2007, 7, 979-1000.	3.8	229
6	Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier. Remote Sensing, 2020, 12, 266.	4.0	210
7	Water quality assessment and apportionment of pollution sources using APCS-MLR and PMF receptor modeling techniques in three major rivers of South Florida. Science of the Total Environment, 2016, 566-567, 1552-1567.	8.0	206
8	Impact of climate change on the hydroclimatology of Lake Tana Basin, Ethiopia. Water Resources Research, 2011, 47, .	4.2	192
9	Remote Sensing Sensors and Applications in Environmental Resources Mapping and Modelling. Sensors, 2007, 7, 3209-3241.	3.8	181
10	A comparison of various artificial intelligence approaches performance for estimating suspended sediment load of river systems: a case study in United States. Environmental Monitoring and Assessment, 2015, 187, 189.	2.7	151
11	A comparison study of DRASTIC methods with various objective methods for groundwater vulnerability assessment. Science of the Total Environment, 2018, 642, 1032-1049.	8.0	151
12	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. Water (Switzerland), 2019, 11, 1402.	2.7	137
13	Effect of rainfall intensity, slope and antecedent moisture content on sediment concentration and sediment enrichment ratio. Catena, 2012, 90, 47-52.	5.0	135
14	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. Journal of Hydrology, 2018, 565, 248-261.	5.4	129
15	EVALUATION OF THE SWAT MODELÂ'S SNOWMELT HYDROLOGY IN A NORTHWESTERN MINNESOTA WATERSHED. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1359-1376.	0.9	125
16	Modeling of sediment yield in Maybar gauged watershed using SWAT, northeast Ethiopia. Catena, 2015, 127, 191-205.	5.0	125
17	Flood Spatial Modeling in Northern Iran Using Remote Sensing and GIS: A Comparison between Evidential Belief Functions and Its Ensemble with a Multivariate Logistic Regression Model. Remote Sensing, 2019, 11, 1589.	4.0	124
18	Spatial delineation of soil erosion vulnerability in the Lake Tana Basin, Ethiopia. Hydrological Processes, 2009, 23, 3738-3750.	2.6	119

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19	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. Remote Sensing, 2020, 12, 3568.	4.0	118
20	Modeling of Sediment Yield From Anjeniâ€Gauged Watershed, Ethiopia Using SWAT Model[1]. Journal of the American Water Resources Association, 2010, 46, 514-526.	2.4	112
21	SWAT model application and prediction uncertainty analysis in the Lake Tana Basin, Ethiopia. Hydrological Processes, 2010, 24, 357-367.	2.6	108
22	GIS-based hydrological zones and soil geo-database of Ethiopia. Catena, 2013, 104, 21-31.	5.0	107
23	Evaluating sediment storage dams: structural off-site sediment trapping measures in northwest Ethiopia. Cuadernos De Investigacion Geografica, 2015, 41, 7-22.	1.1	102
24	Water Quality Monitoring Using Remote Sensing and an Artificial Neural Network. Water, Air, and Soil Pollution, 2012, 223, 4875-4887.	2.4	96
25	Application of Dempsterâ€"Shafer theory, spatial analysis and remote sensing for groundwater potentiality and nitrate pollution analysis in the semi-arid region of Khuzestan, Iran. Science of the Total Environment, 2016, 568, 1110-1123.	8.0	95
26	Artificial neural network application for multi-ecosystem carbon flux simulation. Ecological Modelling, 2005, 189, 305-314.	2.5	91
27	Using Hydrologic Equivalent Wetland Concept Within SWAT to Estimate Streamflow in Watersheds with Numerous Wetlands. Transactions of the ASABE, 2008, 51, 55-72.	1.1	91
28	Novel ensembles of COPRAS multi-criteria decision-making with logistic regression, boosted regression tree, and random forest for spatial prediction of gully erosion susceptibility. Science of the Total Environment, 2019, 688, 903-916.	8.0	91
29	Spatial and Temporal Land Cover Changes in the Simen Mountains National Park, a World Heritage Site in Northwestern Ethiopia. Remote Sensing, 2011, 3, 752-766.	4.0	85
30	Impact of Climate Change on the Hydrology of Upper Tiber River Basin Using Bias Corrected Regional Climate Model. Water Resources Management, 2014, 28, 1327-1343.	3.9	83
31	Assortment and spatiotemporal analysis of surface water quality using cluster and discriminant analyses. Catena, 2017, 151, 247-258.	5.0	79
32	Field-scale investigation of the effect of land use on sediment yield and runoff using runoff plot data and models in the Mara River basin, Kenya. Catena, 2012, 89, 54-64.	5.0	77
33	The effect of slope steepness and antecedent moisture content on interrill erosion, runoff and sediment size distribution in the highlands of Ethiopia. Hydrology and Earth System Sciences, 2011, 15, 2367-2375.	4.9	76
34	Surface Water and Groundwater Resources of Ethiopia: Potentials and Challenges of Water Resources Development. , 2014, , 97-117.		76
35	Assessment of water resources availability and demand in the Mara River Basin. Catena, 2014, 115, 104-114.	5.0	76
36	EFFECTS OF STATSGO AND SSURGO AS INPUTS ON SWAT MODEL'S SNOWMELT SIMULATION. Journal of the American Water Resources Association, 2006, 42, 1217-1236.	2.4	75

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37	Spatially distributed storm runoff depth estimation using Landsat images and GIS. Computers and Electronics in Agriculture, 2002, 37, 173-183.	7.7	74
38	Spatial, inter and intra‐annual variability of the Upper Blue Nile Basin rainfall. Hydrological Processes, 2009, 23, 3075-3082.	2.6	74
39	Modelling the rainfall–runoff process of the Mara River basin using the Soil and Water Assessment Tool. Hydrological Processes, 2012, 26, 4038-4049.	2.6	74
40	Influences of Potential Evapotranspiration Estimation Methods on SWAT's Hydrologic Simulation in a Northwestern Minnesota Watershed. Transactions of the ASABE, 2006, 49, 1755-1771.	1.1	73
41	Ensemble models of GLM, FDA, MARS, and RF for flood and erosion susceptibility mapping: a priority assessment of sub-basins. Geocarto International, 2022, 37, 2541-2560.	3.5	73
42	Modelling lake stage and water balance of Lake Tana, Ethiopia. Hydrological Processes, 2009, 23, 3534-3544.	2.6	69
43	Global Daily Reference Evapotranspiration Modeling and Evaluation[1]. Journal of the American Water Resources Association, 2008, 44, 969-979.	2.4	68
44	Modeling the impact of land use changes on runoff and sediment yield in the Le Sueur watershed, Minnesota using GeoWEPP. Catena, 2013, 107, 35-45.	5.0	67
45	Comparing flow regime, channel hydraulics, and biological communities to infer flow–ecology relationships in the Mara River of Kenya and Tanzania. Hydrological Sciences Journal, 2014, 59, 801-819.	2.6	67
46	Erosion and Sediment Transport Modelling in Shallow Waters: A Review on Approaches, Models and Applications. International Journal of Environmental Research and Public Health, 2018, 15, 518.	2.6	67
47	Evaporation and Evapotranspiration. , 2013, , .		66
48	River Water Salinity Prediction Using Hybrid Machine Learning Models. Water (Switzerland), 2020, 12, 2951.	2.7	66
49	Water hyacinth: review of its impacts on hydrology and ecosystem services—Lessons for management of Lake Tana. , 2019, , 237-251.		62
50	SWPT: An automated GIS-based tool for prioritization of sub-watersheds based on morphometric and topo-hydrological factors. Geoscience Frontiers, 2019, 10, 2167-2175.	8.4	60
51	El Niño Southern Oscillation link to the Blue Nile River Basin hydrology. Hydrological Processes, 2009, 23, 3653-3660.	2.6	59
52	Impact and uncertainties of climate change on the hydrology of the Mara River basin, Kenya/Tanzania. Hydrological Processes, 2013, 27, 2973-2986.	2.6	59
53	Simulated wetland conservation-restoration effects on water quantity and quality at watershed scale. Journal of Environmental Management, 2010, 91, 1511-1525.	7.8	58
54	Nile River Basin. , 2014, , .		57

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55	STORM RUNOFF PREDICTION BASED ON A SPATIALLY DISTRIBUTED TRAVEL TIME METHOD UTILIZING REMOTE SENSING AND GIS. Journal of the American Water Resources Association, 2004, 40, 863-879.	2.4	55
56	Performance of High Resolution Satellite Rainfall Products over Data Scarce Parts of Eastern Ethiopia. Remote Sensing, 2015, 7, 11639-11663.	4.0	55
57	Modeling Climate Change Impact on the Hydrology of Keleta Watershed in the Awash River Basin, Ethiopia. Environmental Modeling and Assessment, 2019, 24, 95-107.	2.2	54
58	MODSIM-based water allocation modeling of Awash River Basin, Ethiopia. Catena, 2013, 109, 118-128.	5.0	53
59	The response of water balance components to land cover change based on hydrologic modeling and partial least squares regression (PLSR) analysis in the Upper Awash Basin. Journal of Hydrology: Regional Studies, 2019, 26, 100640.	2.4	53
60	Development of an automated GIS tool for reproducing the HAND terrain model. Environmental Modelling and Software, 2018, 102, 1-12.	4.5	52
61	Analysis of rainfall trend and variability for agricultural water management in Awash River Basin, Ethiopia. Journal of Water and Climate Change, 2017, 8, 127-141.	2.9	50
62	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.	8.0	50
63	Soil Erosion Modelling and Risk Assessment in Data Scarce Rift Valley Lake Regions, Ethiopia. Water (Switzerland), 2018, 10, 1684.	2.7	49
64	Watershed scale application of WEPP and EROSION 3D models for assessment of potential sediment source areas and runoff flux in the Mara River Basin, Kenya. Catena, 2012, 95, 63-72.	5.0	47
65	Potential of Water Hyacinth Infestation on Lake Tana, Ethiopia: A Prediction Using a GIS-Based Multi-Criteria Technique. Water (Switzerland), 2019, 11, 1921.	2.7	45
66	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. Sensors, 2020, 20, 5763.	3.8	44
67	Evaporation Estimation of Rift Valley Lakes: Comparison of Models. Sensors, 2009, 9, 9603-9615.	3.8	43
68	Nile River Basin. , 2011, , .		43
69	Estimating the Sediment Flux and Budget for a Data Limited Rift Valley Lake in Ethiopia. Hydrology, 2019, 6, 1.	3.0	43
70	Climate change, land‐cover dynamics and ecohydrology of the Nile River Basin. Hydrological Processes, 2009, 23, 3651-3652.	2.6	42
71	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. Applied Sciences (Switzerland), 2019, 9, 3495.	2.5	42
72	Effects of rainwater-harvesting-induced artificial recharge on the groundwater of wells in Rajasthan, India. Hydrogeology Journal, 2009, 17, 2061-2073.	2.1	40

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73	Spatiotemporal dynamics of land surface parameters in the Red River of the North Basin. Physics and Chemistry of the Earth, 2004, 29, 795-810.	2.9	39
74	Flow Regime Classification and Hydrological Characterization: A Case Study of Ethiopian Rivers. Water (Switzerland), 2015, 7, 3149-3165.	2.7	39
75	Climate Change Impact on the Hydrology of Tekeze Basin, Ethiopia: Projection of Rainfall-Runoff for Future Water Resources Planning. Water Conservation Science and Engineering, 2018, 3, 267-278.	1.7	39
76	Estimation of spatially distributed surface energy fluxes using remotely-sensed data for agricultural fields. Hydrological Processes, 2005, 19, 2653-2670.	2.6	38
77	Evaluation of watershed scale changes in groundwater and soil moisture storage with the application of GRACE satellite imagery data. Catena, 2017, 153, 50-60.	5.0	38
78	Applicability of a Spatially Semi-Distributed Hydrological Model for Watershed Scale Runoff Estimation in Northwest Ethiopia. Water (Switzerland), 2018, 10, 923.	2.7	37
79	EVAPOTRANSPIRATION DYNAMICS AT AN ECOHYDROLOGICAL RESTORATION SITE: AN ENERGY BALANCE AND REMOTE SENSING APPROACH. Journal of the American Water Resources Association, 2006, 42, 565-582.	2.4	35
80	Rainfall trend and variability in Southeast Florida: Implications for freshwater availability in the Everglades. PLoS ONE, 2019, 14, e0212008.	2.5	35
81	Modeling Coastal Eutrophication at Florida Bay using Neural Networks. Journal of Coastal Research, 2008, 2, 190-196.	0.3	34
82	Hydrological analysis of the Upper Tiber River Basin, Central Italy: a watershed modelling approach. Hydrological Processes, 2013, 27, 2339-2351.	2.6	34
83	Modeling hydrological variability of fresh water resources in the Rio Cobre watershed, Jamaica. Catena, 2014, 120, 81-90.	5.0	34
84	Streamflow prediction uncertainty analysis and verification of SWAT model in a tropical watershed. Environmental Earth Sciences, 2016, 75, 1.	2.7	34
85	Climate Change Impact on Sediment Yield in the Upper Gilgel Abay Catchment, Blue Nile Basin, Ethiopia. Springer Geography, 2016, , 615-644.	0.4	34
86	Optimal Operation of Hydropower Reservoirs under Climate Change: The Case of Tekeze Reservoir, Eastern Nile. Water (Switzerland), 2018, 10, 273.	2.7	34
87	Spaceborne and airborne sensors in water quality assessment. International Journal of Remote Sensing, 2016, 37, 3143-3180.	2.9	33
88	Satellite Estimation of Chlorophyll-a Using Moderate Resolution Imaging Spectroradiometer (MODIS) Sensor in Shallow Coastal Water Bodies: Validation and Improvement. Water (Switzerland), 2019, 11, 1621.	2.7	32
89	Simulation of an Agricultural Watershed Using an Improved Curve Number Method in SWAT. Transactions of the ASABE, 2008, 51, 1323-1339.	1.1	30
90	Hydro-Meteorology and Water Budget of the Mara River Basin Under Land Use Change Scenarios. , 2011, , 39-68.		30

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91	Spatial evaluation of satellite-retrieved extreme rainfall rates in the Upper Awash River Basin, Ethiopia. Atmospheric Research, 2021, 249, 105297.	4.1	30
92	Projected changes in extreme precipitation indices from CORDEX simulations over Ethiopia, East Africa. Atmospheric Research, 2021, 247, 105156.	4.1	29
93	Modelling the impacts of subsurface drainage on surface runoff and sediment yield in the Le Sueur Watershed, Minnesota, USA. Hydrological Sciences Journal, 2013, 58, 570-586.	2.6	28
94	The Nile River Basin. , 2014, , 7-21.		28
95	Landscape Dynamics, Soils and Hydrological Processes in Varied Climates. Springer Geography, 2016, , .	0.4	28
96	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.	2.7	28
97	Sediment Yield and Reservoir Sedimentation in Highly Dynamic Watersheds: The Case of Koga Reservoir, Ethiopia. Water (Switzerland), 2021, 13, 3374.	2.7	28
98	Hydrological Variability and Climate of the Upper Blue Nile River Basin. , 2011, , 3-37.		27
99	Soil Erosion Mapping and Hotspot Area Identification Using GIS and Remote Sensing in Northwest Ethiopian Highlands, Near Lake Tana. , 2011, , 207-224.		27
100	Land use and land cover dynamics in the Keleta watershed, Awash River basin, Ethiopia. Environmental Hazards, 2019, 18, 246-265.	2.5	26
101	Numerical modeling of the groundwater flow system of the Gumera sub€basin in Lake Tana basin, Ethiopia. Hydrological Processes, 2009, 23, 3694-3704.	2.6	25
102	The effect of tillage practices on grain yield and water use efficiency. Catena, 2013, 100, 128-138.	5.0	25
103	Hydroclimatic Extremes Evaluation Using GRACE/GRACE-FO and Multidecadal Climatic Variables over the Nile River Basin. Remote Sensing, 2021, 13, 651.	4.0	25
104	Wetland Restoration Response Analysis using MODIS and Groundwater Data. Sensors, 2007, 7, 1916-1933.	3.8	24
105	Bathymetric study of Lake Hayq, Ethiopia. Lakes and Reservoirs: Research and Management, 2013, 18, 155-165.	0.9	24
106	Cumulative infiltration and infiltration rate prediction using optimized deep learning algorithms: A study in Western Iran. Journal of Hydrology: Regional Studies, 2021, 35, 100825.	2.4	24
107	Spatiotemporal dynamics of evapotranspiration at the Glacial Ridge prairie restoration in northwestern Minnesota. Hydrological Processes, 2006, 20, 1451-1464.	2.6	23
108	Low and high flow analyses and wavelet application for characterization of the Blue Nile River system. Hydrological Processes, 2010, 24, 241-252.	2.6	22

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109	Monitoring prairie wet area with an integrated LANDSAT ETM+, RADARSAT-1 SAR and ancillary data from LIDAR. Catena, 2012, 95, 12-23.	5.0	22
110	Stage level, volume and timeâ€frequency information content of Lake Tana using stochastic and wavelet analysis methods. Hydrological Processes, 2013, 27, 1475-1483.	2.6	22
111	Estimating major ion and nutrient concentrations in mangrove estuaries in Everglades National Park using leaf and satellite reflectance. Remote Sensing of Environment, 2014, 154, 202-218.	11.0	22
112	Detecting land use/land cover changes in the <scp>L</scp>ake <scp>H</scp>ayq (<scp>E</scp>thiopia) drainage basin, 1957â€"2007. Lakes and Reservoirs: Research and Management, 2015, 20, 1-18.	0.9	22
113	Flood susceptibility mapping at Ningdu catchment, China using bivariate and data mining techniques. , 2019, , 419-434.		22
114	Teleconnection of Regional Drought to ENSO, PDO, and AMO: Southern Florida and the Everglades. Atmosphere, 2019, 10, 295.	2.3	22
115	EFFECTS OF STATSGO AND SSURGO AS INPUTS ON SWAT MODEL'S SNOWMELT SIMULATION1. Journal of the American Water Resources Association, 2007, 42, 1217-1236.	2.4	21
116	Temporal relationships between time series CHIRPS-rainfall estimation and eMODIS-NDVI satellite images in Amhara Region, Ethiopia. , 2019, , 81-92.		21
117	Climate Change Projections in the Upper Gilgel Abay River Catchment, Blue Nile Basin Ethiopia. , 2014, , 363-388.		21
118	Climate Change Impact on Agricultural Water Resources Variability in the Northern Highlands of Ethiopia. , 2011, , 241-265.		21
119	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1585-1612.	3.1	21
120	Supervised Classification of Benthic Reflectance in Shallow Subtropical Waters Using a Generalized Pixel-Based Classifier across a Time Series. Remote Sensing, 2015, 7, 5098-5116.	4.0	20
121	Spatial and temporal variability in spectral-based surface energy evapotranspiration measured from Landsat 5TM across two mangrove ecotones. Agricultural and Forest Meteorology, 2015, 213, 304-316.	4.8	20
122	Bias correction and characterization of climate forecast system reâ€analysis daily precipitation in Ethiopia using fuzzy overlay. Meteorological Applications, 2016, 23, 230-243.	2.1	20
123	Climate Change and Evapotranspiration. , 2013, , 197-202.		19
124	Multimodel Ensemble Projection of Hydro-climatic Extremes for Climate Change Impact Assessment on Water Resources. Water Resources Management, 2020, 34, 3019-3035.	3.9	19
125	Urban Flood Management through Urban Land Use Optimization Using LID Techniques, City of Addis Ababa, Ethiopia. Water (Switzerland), 2021, 13, 1721.	2.7	19
126	A simple temperature method for the estimation of evapotranspiration. Hydrological Processes, 2013, 28, n/a-n/a.	2.6	18

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127	Analysis and prediction of meteorological drought using SPI index and ARIMA model in the Karkheh River Basin, Iran. , 2019, , 343-353.		18
128	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
129	Climate Teleconnections and Water Management. , 2014, , 685-705.		17
130	Vapor Pressure Calculation Methods. , 2013, , 53-62.		17
131	Water Quality Changes as a Result of Coalbed Methane Development in a Rocky mountain Watershed[1]. Journal of the American Water Resources Association, 2007, 43, 1383-1399.	2.4	16
132	Analysis of energy fluxes and land surface parameters in a grassland ecosystem: a remote sensing perspective. International Journal of Remote Sensing, 2008, 29, 3325-3341.	2.9	16
133	Operational Prediction of Groundwater Fluctuation in South Florida using Sequence Based Markovian Stochastic Model. Water Resources Management, 2011, 25, 2279-2294.	3.9	16
134	Impacts of longterm conservation measures on ecosystem services in Northwest Ethiopia. International Soil and Water Conservation Research, 2020, 8, 47-55.	6.5	16
135	Historical flood events and hydrological extremes in Ethiopia. , 2019, , 379-384.		15
136	Soil Erosion Susceptibility Mapping in Kozetopraghi Catchment, Iran: A Mixed Approach Using Rainfall Simulator and Data Mining Techniques. Land, 2020, 9, 368.	2.9	15
137	Transboundary Rivers and the Nile. , 2014, , 565-579.		15
138	Statistical Downscaling of Precipitation and Temperature for the Upper Tiber Basin in Central Italy. International Journal of Water Sciences, 2012, , 1.	0.4	15
139	Ecosystem Service Valuation along Landscape Transformation in Central Ethiopia. Land, 2022, 11, 500.	2.9	15
140	Suspended sediment load modeling using advanced hybrid rotation forest based elastic network approach. Journal of Hydrology, 2022, 610, 127963.	5.4	15
141	Long-term (11 years) study of water balance, flushing times and water chemistry of a coastal wetland undergoing restoration, Everglades, Florida, USA. Catena, 2016, 144, 74-83.	5.0	14
142	An Alternative Empirical Model to Estimate Watershed Sediment Yield Based on Hydrology and Geomorphology of the Basin in Data-Scarce Rift Valley Lake Regions, Ethiopia. Geosciences (Switzerland), 2020, 10, 31.	2.2	14
143	Modeling the impacts of land use and land cover dynamics on hydrological processes of the Keleta watershed, Ethiopia. Sustainable Environment, 2021, 7, .	2.4	14
144	Performance of mungbean under deficit irrigation application in the semi-arid highlands of Ethiopia. Agricultural Water Management, 2014, 136, 68-74.	5.6	13

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145	GIS and Remote Sensing-Based Forest Resource Assessment, Quantification, and Mapping in Amhara Region, Ethiopia. Springer Geography, 2016, , 9-29.	0.4	13
146	Effects of drought on vegetative cover changes: Investigating spatiotemporal patterns. , 2019, , 213-222.		13
147	Land–Lake Linkage and Remote Sensing Application in Water Quality Monitoring in Lake Okeechobee, Florida, USA. Land, 2021, 10, 147.	2.9	13
148	Groundwater quality evaluation of the alluvial aquifers using GIS and water quality indices in the Upper Blue Nile Basin, Ethiopia. Groundwater for Sustainable Development, 2021, 14, 100636.	4.6	13
149	Groundwater Evaporation and Recharge for a Floodplain in a Sub–humid Monsoon Climate in Ethiopia. Land Degradation and Development, 2017, 28, 1831-1841.	3.9	12
150	Modeling Hydrological Responses to Land Use Dynamics, Choke, Ethiopia. Water Conservation Science and Engineering, 2019, 4, 201-212.	1.7	12
151	Linear spectral unmixing algorithm for modelling suspended sediment concentration of flash floods, upper Tekeze River, Ethiopia. International Journal of Sediment Research, 2020, 35, 79-90.	3.5	12
152	Combined Use of Sentinel-1 SAR and Landsat Sensors Products for Residual Soil Moisture Retrieval over Agricultural Fields in the Upper Blue Nile Basin, Ethiopia. Sensors, 2020, 20, 3282.	3.8	12
153	Groundwater use of a small Eucalyptus patch during the dry monsoon phase. Biologia (Poland), 2020, 75, 853-864.	1.5	12
154	A Deterministic Topographic Wetland Index Based on LiDAR-Derived DEM for Delineating Open-Water Wetlands. Water (Switzerland), 2021, 13, 2487.	2.7	12
155	Multitemporal Land Use/Land Cover Change Detection for the Batena Watershed, Rift Valley Lakes Basin, Ethiopia. Springer Geography, 2016, , 51-72.	0.4	12
156	Operational Actual Wetland Evapotranspiration Estimation for South Florida Using MODIS Imagery. Remote Sensing, 2015, 7, 3613-3632.	4.0	11
157	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
158	Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. Hydrology, 2020, 7, 44.	3.0	11
159	Land Cover and Land Use Change in the US Prairie Pothole Region Using the USDA Cropland Data Layer. Land, 2020, 9, 166.	2.9	11
160	Crop production response to soil moisture and groundwater depletion in the Nile Basin based on multi-source data. Science of the Total Environment, 2022, 825, 154007.	8.0	11
161	Geospatial Mapping and Analysis of Water Availability, Demand, and Use Within the Mara River Basin. , 2011, , 359-382.		10
162	Spatial Runoff Estimation and Mapping of Potential Water Harvesting Sites: A GIS and Remote Sensing Perspective, Northwest Ethiopia. Springer Geography, 2016, , 565-584.	0.4	10

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163	Comparison of Trend Preserving Statistical Downscaling Algorithms Toward an Improved Precipitation Extremes Projection in the Headwaters of Blue Nile River in Ethiopia. Environmental Processes, 2021, 8, 59-75.	3.5	10
164	Climate Change Impact on Stream Flow in the Upper Gilgel Abay Catchment, Blue Nile basin, Ethiopia. Springer Geography, 2016, , 645-673.	0.4	10
165	Soil governance in Greece: A snapshot. Soil Security, 2022, 6, 100035.	2.3	10
166	Water Quality Characteristics of a Water Hyacinth Infested Tropical Highland Lake: Lake Tana, Ethiopia. Frontiers in Water, 2022, 4, .	2.3	10
167	Evaluation of Global Precipitation Products over Wabi Shebelle River Basin, Ethiopia. Hydrology, 2022, 9, 66.	3.0	10
168	Characterization of the effect of tillage on furrow irrigation hydraulics for the Dire Dawa Area, Ethiopia. Catena, 2013, 110, 161-175.	5.0	9
169	An analysis on the urban heat island effect using radiosonde profiles and Landsat imagery with ground meteorological data in South Florida. International Journal of Remote Sensing, 2016, 37, 2313-2337.	2.9	9
170	Land use dynamics and base and peak flow responses in the Choke mountain range, Upper Blue Nile Basin, Ethiopia. International Journal of River Basin Management, 2021, 19, 109-121.	2.7	9
171	Wetland Evapotranspiration. , 2013, , 93-108.		8
172	Toward connecting subtropical algal blooms to freshwater nutrient sources using a long-term, spatially distributed, in situ chlorophyll-a record. Catena, 2015, 133, 119-127.	5.0	8
173	Upstreamâ€"Downstream Linkages of Hydrological Processes in the Nile River Basin. Springer Geography, 2016, , 207-223.	0.4	8
174	Precipitation and streamflow variability in Tekeze River basin, Ethiopia. , 2019, , 103-121.		8
175	Dam break analysis and flood inundation mapping: The case study of Sefid-Roud Dam, Iran. , 2019, , 395-405.		8
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