

Assefa M. Melesse

List of Publications by Citations

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261
papers

6,722
citations

44
h-index

73
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295
ext. papers

8,170
ext. citations

3.3
avg, IF

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L-index

#	Paper	IF	Citations
261	A Comprehensive Review on Water Quality Parameters Estimation Using Remote Sensing Techniques. <i>Sensors</i> , 2016 , 16,	3.8	346
260	Application of GIS-based data driven random forest and maximum entropy models for groundwater potential mapping: A case study at Mehran Region, Iran. <i>Catena</i> , 2016 , 137, 360-372	5.8	293
259	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. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 2245-2258	5.5	291
258	Suspended sediment load prediction of river systems: An artificial neural network approach. <i>Agricultural Water Management</i> , 2011 , 98, 855-866	5.9	196
257	A Coupled Remote Sensing and Simplified Surface Energy Balance Approach to Estimate Actual Evapotranspiration from Irrigated Fields. <i>Sensors</i> , 2007 , 7, 979-1000	3.8	171
256	Impact of climate change on the hydroclimatology of Lake Tana Basin, Ethiopia. <i>Water Resources Research</i> , 2011 , 47,	5.4	149
255	Remote Sensing Sensors and Applications in Environmental Resources Mapping and Modelling. <i>Sensors</i> , 2007 , 7, 3209-3241	3.8	143
254	A comparison of various artificial intelligence approaches performance for estimating suspended sediment load of river systems: a case study in United States. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 189	3.1	137
253	Water quality assessment and apportionment of pollution sources using APCS-MLR and PMF receptor modeling techniques in three major rivers of South Florida. <i>Science of the Total Environment</i> , 2016 , 566-567, 1552-1567	10.2	115
252	EVALUATION OF THE SWAT MODEL'S SNOWMELT HYDROLOGY IN A NORTHWESTERN MINNESOTA WATERSHED. <i>Transactions of the American Society of Agricultural Engineers</i> , 2005 , 48, 1359-1376		114
251	Effect of rainfall intensity, slope and antecedent moisture content on sediment concentration and sediment enrichment ratio. <i>Catena</i> , 2012 , 90, 47-52	5.8	106
250	Modeling of sediment yield in Maybar gauged watershed using SWAT, northeast Ethiopia. <i>Catena</i> , 2015 , 127, 191-205	5.8	97
249	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. <i>Remote Sensing</i> , 2020 , 12, 266	5	96
248	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. <i>Journal of Hydrology</i> , 2018 , 565, 248-261	6	96
247	A comparison study of DRASTIC methods with various objective methods for groundwater vulnerability assessment. <i>Science of the Total Environment</i> , 2018 , 642, 1032-1049	10.2	95
246	Modeling of Sediment Yield From Anjeni-Gauged Watershed, Ethiopia Using SWAT Model1. <i>Journal of the American Water Resources Association</i> , 2010 , 46, 514-526	2.1	95
245	Evaluating sediment storage dams: structural off-site sediment trapping measures in northwest Ethiopia. <i>Cuadernos De Investigacion Geografica</i> , 2015 , 41, 7	2.5	87

244	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. <i>Water (Switzerland)</i> , 2019 , 11, 1402	3	82
243	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. <i>Remote Sensing</i> , 2019 , 11, 1589	5	82
242	Using Hydrologic Equivalent Wetland Concept Within SWAT to Estimate Streamflow in Watersheds with Numerous Wetlands. <i>Transactions of the ASABE</i> , 2008 , 51, 55-72	0.9	74
241	Artificial neural network application for multi-ecosystem carbon flux simulation. <i>Ecological Modelling</i> , 2005 , 189, 305-314	3	74
240	GIS-based hydrological zones and soil geo-database of Ethiopia. <i>Catena</i> , 2013 , 104, 21-31	5.8	73
239	EFFECTS OF STATSGO AND SSURGO AS INPUTS ON SWAT MODEL'S SNOWMELT SIMULATION. <i>Journal of the American Water Resources Association</i> , 2006 , 42, 1217-1236	2.1	70
238	Application of Dempster-Shafer theory, spatial analysis and remote sensing for groundwater potentiality and nitrate pollution analysis in the semi-arid region of Khuzestan, Iran. <i>Science of the Total Environment</i> , 2016 , 568, 1110-1123	10.2	67
237	Spatial and Temporal Land Cover Changes in the Simen Mountains National Park, a World Heritage Site in Northwestern Ethiopia. <i>Remote Sensing</i> , 2011 , 3, 752-766	5	67
236	Modelling the rainfall-runoff process of the Mara River basin using the Soil and Water Assessment Tool. <i>Hydrological Processes</i> , 2012 , 26, 4038-4049	3.3	66
235	Spatial, inter and intra-annual variability of the Upper Blue Nile Basin rainfall. <i>Hydrological Processes</i> , 2009 , 23, 3075-3082	3.3	66
234	Impact of Climate Change on the Hydrology of Upper Tiber River Basin Using Bias Corrected Regional Climate Model. <i>Water Resources Management</i> , 2014 , 28, 1327-1343	3.7	63
233	Influences of Potential Evapotranspiration Estimation Methods on SWAT's Hydrologic Simulation in a Northwestern Minnesota Watershed. <i>Transactions of the ASABE</i> , 2006 , 49, 1755-1771	0.9	61
232	Water Quality Monitoring Using Remote Sensing and an Artificial Neural Network. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 4875-4887	2.6	60
231	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. <i>Catena</i> , 2012 , 89, 54-64	5.8	60
230	The effect of slope steepness and antecedent moisture content on interrill erosion, runoff and sediment size distribution in the highlands of Ethiopia. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 2367-2375	5.5	60
229	Novel ensembles of COPRAS multi-criteria decision-making with logistic regression, boosted regression tree, and random forest for spatial prediction of gully erosion susceptibility. <i>Science of the Total Environment</i> , 2019 , 688, 903-916	10.2	59
228	Assessment of water resources availability and demand in the Mara River Basin. <i>Catena</i> , 2014 , 115, 104-114	5.8	57
227	Modeling the impact of land use changes on runoff and sediment yield in the Le Sueur watershed, Minnesota using GeoWEPP. <i>Catena</i> , 2013 , 107, 35-45	5.8	54

226	Modelling lake stage and water balance of Lake Tana, Ethiopia. <i>Hydrological Processes</i> , 2009 , 23, 3534-3544	3.4	53
225	Global Daily Reference Evapotranspiration Modeling and Evaluation1. <i>Journal of the American Water Resources Association</i> , 2008 , 44, 969-979	2.1	53
224	Assortment and spatiotemporal analysis of surface water quality using cluster and discriminant analyses. <i>Catena</i> , 2017 , 151, 247-258	5.8	51
223	Comparing flow regime, channel hydraulics, and biological communities to infer flow-ecology relationships in the Mara River of Kenya and Tanzania. <i>Hydrological Sciences Journal</i> , 2014 , 59, 801-819	3.5	51
222	SWAT model application and prediction uncertainty analysis in the Lake Tana Basin, Ethiopia. <i>Hydrological Processes</i> , 2009 , 24, n/a-n/a	3.3	51
221	Spatially distributed storm runoff depth estimation using Landsat images and GIS. <i>Computers and Electronics in Agriculture</i> , 2002 , 37, 173-183	6.5	50
220	Simulated wetland conservation-restoration effects on water quantity and quality at watershed scale. <i>Journal of Environmental Management</i> , 2010 , 91, 1511-25	7.9	49
219	STORM RUNOFF PREDICTION BASED ON A SPATIALLY DISTRIBUTED TRAVEL TIME METHOD UTILIZING REMOTE SENSING AND GIS1. <i>Journal of the American Water Resources Association</i> , 2004 , 40, 863-879	2.1	48
218	Evaporation and Evapotranspiration 2013 ,		43
217	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. <i>Remote Sensing</i> , 2020 , 12, 3568	5	42
216	Surface Water and Groundwater Resources of Ethiopia: Potentials and Challenges of Water Resources Development 2014 , 97-117		42
215	MODSIM-based water allocation modeling of Awash River Basin, Ethiopia. <i>Catena</i> , 2013 , 109, 118-128	5.8	42
214	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. <i>Catena</i> , 2012 , 95, 63-72	5.8	41
213	Development of an automated GIS tool for reproducing the HAND terrain model. <i>Environmental Modelling and Software</i> , 2018 , 102, 1-12	5.2	40
212	Climate change, land-cover dynamics and ecohydrology of the Nile River Basin. <i>Hydrological Processes</i> , 2009 , 23, 3651-3652	3.3	40
211	Ensemble models of GLM, FDA, MARS, and RF for flood and erosion susceptibility mapping: a priority assessment of sub-basins. <i>Geocarto International</i> , 2020 , 1-20	2.7	39
210	SWPT: An automated GIS-based tool for prioritization of sub-watersheds based on morphometric and topo-hydrological factors. <i>Geoscience Frontiers</i> , 2019 , 10, 2167-2175	6	38
209	Erosion and Sediment Transport Modelling in Shallow Waters: A Review on Approaches, Models and Applications. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	37

208	Performance of High Resolution Satellite Rainfall Products over Data Scarce Parts of Eastern Ethiopia. <i>Remote Sensing</i> , 2015 , 7, 11639-11663	5	37
207	Nile River Basin 2014 ,		37
206	Nile River Basin 2011 ,		36
205	Spatiotemporal dynamics of land surface parameters in the Red River of the North Basin. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 795-810	3	35
204	Modeling Climate Change Impact on the Hydrology of Keleta Watershed in the Awash River Basin, Ethiopia. <i>Environmental Modeling and Assessment</i> , 2019 , 24, 95-107	2	34
203	Spatial delineation of soil erosion vulnerability in the Lake Tana Basin, Ethiopia. <i>Hydrological Processes</i> , 2009 , 23, n/a-n/a	3.3	34
202	Evaporation estimation of rift valley lakes: comparison of models. <i>Sensors</i> , 2009 , 9, 9603-15	3.8	33
201	Impact and uncertainties of climate change on the hydrology of the Mara River basin, Kenya/Tanzania. <i>Hydrological Processes</i> , 2012 , 27, n/a-n/a	3.3	32
200	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3495	2.6	31
199	Modeling hydrological variability of fresh water resources in the Rio Cobre watershed, Jamaica. <i>Catena</i> , 2014 , 120, 81-90	5.8	31
198	Effects of rainwater-harvesting-induced artificial recharge on the groundwater of wells in Rajasthan, India. <i>Hydrogeology Journal</i> , 2009 , 17, 2061-2073	3.1	31
197	Hydrological analysis of the Upper Tiber River Basin, Central Italy: a watershed modelling approach. <i>Hydrological Processes</i> , 2013 , 27, 2339-2351	3.3	30
196	Hydro-Meteorology and Water Budget of the Mara River Basin Under Land Use Change Scenarios 2011 , 39-68		30
195	Estimation of spatially distributed surface energy fluxes using remotely-sensed data for agricultural fields. <i>Hydrological Processes</i> , 2005 , 19, 2653-2670	3.3	29
194	Estimating the Sediment Flux and Budget for a Data Limited Rift Valley Lake in Ethiopia. <i>Hydrology</i> , 2019 , 6, 1	2.8	29
193	El Niño Southern Oscillation link to the Blue Nile River Basin hydrology. <i>Hydrological Processes</i> , 2009 , 23, n/a-n/a	3.3	28
192	Modelling the impacts of subsurface drainage on surface runoff and sediment yield in the Le Sueur Watershed, Minnesota, USA. <i>Hydrological Sciences Journal</i> , 2013 , 58, 570-586	3.5	27
191	Simulation of an Agricultural Watershed Using an Improved Curve Number Method in SWAT. <i>Transactions of the ASABE</i> , 2008 , 51, 1323-1339	0.9	27

190	Flow Regime Classification and Hydrological Characterization: A Case Study of Ethiopian Rivers. <i>Water (Switzerland)</i> , 2015 , 7, 3149-3165	3	26
189	Modeling Coastal Eutrophication at Florida Bay using Neural Networks. <i>Journal of Coastal Research</i> , 2008 , 2, 190-196	0.6	26
188	EVAPOTRANSPIRATION DYNAMICS AT AN ECOHYDROLOGICAL RESTORATION SITE: AN ENERGY BALANCE AND REMOTE SENSING APPROACH1. <i>Journal of the American Water Resources Association</i> , 2006 , 42, 565-582	2.1	26
187	Streamflow prediction uncertainty analysis and verification of SWAT model in a tropical watershed. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	26
186	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. <i>Journal of Hydrology: Regional Studies</i> , 2019 , 26, 100640	3.6	26
185	Water hyacinth: review of its impacts on hydrology and ecosystem services Lessons for management of Lake Tana 2019 , 237-251		25
184	The Nile River Basin 2014 , 7-21		25
183	Soil Erosion Modelling and Risk Assessment in Data Scarce Rift Valley Lake Regions, Ethiopia. <i>Water (Switzerland)</i> , 2018 , 10, 1684	3	25
182	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
181	Hydrological Variability and Climate of the Upper Blue Nile River Basin 2011 , 3-37		24
180	River Water Salinity Prediction Using Hybrid Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 2951	3	23
179	Soil Erosion Mapping and Hotspot Area Identification Using GIS and Remote Sensing in Northwest Ethiopian Highlands, Near Lake Tana 2011 , 207-224		22
178	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
177	Spaceborne and airborne sensors in water quality assessment. <i>International Journal of Remote Sensing</i> , 2016 , 37, 3143-3180	3.1	22
176	Evaluation of watershed scale changes in groundwater and soil moisture storage with the application of GRACE satellite imagery data. <i>Catena</i> , 2017 , 153, 50-60	5.8	21
175	Analysis of rainfall trend and variability for agricultural water management in Awash River Basin, Ethiopia. <i>Journal of Water and Climate Change</i> , 2017 , 8, 127-141	2.3	21
174	Applicability of a Spatially Semi-Distributed Hydrological Model for Watershed Scale Runoff Estimation in Northwest Ethiopia. <i>Water (Switzerland)</i> , 2018 , 10, 923	3	21
173	Monitoring prairie wet area with an integrated LANDSAT ETM+, RADARSAT-1 SAR and ancillary data from LIDAR. <i>Catena</i> , 2012 , 95, 12-23	5.8	21

172	Optimal Operation of Hydropower Reservoirs under Climate Change: The Case of Tekeze Reservoir, Eastern Nile. <i>Water (Switzerland)</i> , 2018 , 10, 273	3	20
171	Stage level, volume and time-frequency information content of Lake Tana using stochastic and wavelet analysis methods. <i>Hydrological Processes</i> , 2013 , 27, 1475-1483	3.3	20
170	Bathymetric study of Lake Hayq, Ethiopia. <i>Lakes and Reservoirs: Research and Management</i> , 2013 , 18, 155-165	1.2	19
169	Wetland Restoration Response Analysis using MODIS and Groundwater Data. <i>Sensors</i> , 2007 , 7, 1916-1933	3.8	19
168	Critical Water Resources Issues in the Nile River Basin 2011 , 401-416		19
167	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. <i>Sensors</i> , 2020 , 20,	3.8	18
166	Estimating major ion and nutrient concentrations in mangrove estuaries in Everglades National Park using leaf and satellite reflectance. <i>Remote Sensing of Environment</i> , 2014 , 154, 202-218	13.2	18
165	Spatiotemporal dynamics of evapotranspiration at the Glacial Ridge prairie restoration in northwestern Minnesota. <i>Hydrological Processes</i> , 2006 , 20, 1451-1464	3.3	18
164	Climate Change Projections in the Upper Gilgel Abay River Catchment, Blue Nile Basin Ethiopia 2014 , 363-388		18
163	Climate Change Impact on the Hydrology of Tekeze Basin, Ethiopia: Projection of Rainfall-Runoff for Future Water Resources Planning. <i>Water Conservation Science and Engineering</i> , 2018 , 3, 267-278	1.6	17
162	Rainfall trend and variability in Southeast Florida: Implications for freshwater availability in the Everglades. <i>PLoS ONE</i> , 2019 , 14, e0212008	3.7	17
161	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
160	Detecting land use/land cover changes in the Lake Hayq (Ethiopia) drainage basin, 1957-2007. <i>Lakes and Reservoirs: Research and Management</i> , 2015 , 20, 1-18	1.2	16
159	Satellite Estimation of Chlorophyll-a Using Moderate Resolution Imaging Spectroradiometer (MODIS) Sensor in Shallow Coastal Water Bodies: Validation and Improvement. <i>Water (Switzerland)</i> , 2019 , 11, 1621	3	16
158	The effect of tillage practices on grain yield and water use efficiency. <i>Catena</i> , 2013 , 100, 128-138	5.8	16
157	Supervised Classification of Benthic Reflectance in Shallow Subtropical Waters Using a Generalized Pixel-Based Classifier across a Time Series. <i>Remote Sensing</i> , 2015 , 7, 5098-5116	5	16
156	Climate Teleconnections and Water Management 2014 , 685-705		16
155	Transboundary Rivers and the Nile 2014 , 565-579		15

154	Spatial and temporal variability in spectral-based surface energy evapotranspiration measured from Landsat 5TM across two mangrove ecotones. <i>Agricultural and Forest Meteorology</i> , 2015 , 213, 304-316	5.8	14
153	A simple temperature method for the estimation of evapotranspiration. <i>Hydrological Processes</i> , 2013 , 28, n/a-n/a	3.3	14
152	Low and high flow analyses and wavelet application for characterization of the Blue Nile River system. <i>Hydrological Processes</i> , 2009 , 24, n/a-n/a	3.3	14
151	Climate Change Impact on Agricultural Water Resources Variability in the Northern Highlands of Ethiopia 2011 , 241-265		14
150	Hydroclimatic Extremes Evaluation Using GRACE/GRACE-FO and Multidecadal Climatic Variables over the Nile River Basin. <i>Remote Sensing</i> , 2021 , 13, 651	5	14
149	Landscape Dynamics, Soils and Hydrological Processes in Varied Climates. <i>Springer Geography</i> , 2016	0.4	13
148	Long-term (11 years) study of water balance, flushing times and water chemistry of a coastal wetland undergoing restoration, Everglades, Florida, USA. <i>Catena</i> , 2016 , 144, 74-83	5.8	13
147	Climate Change and Evapotranspiration 2013 , 197-202		13
146	Vapor Pressure Calculation Methods 2013 , 53-62		13
145	Groundwater Evaporation and Recharge for a Floodplain in a Sub-humid Monsoon Climate in Ethiopia. <i>Land Degradation and Development</i> , 2017 , 28, 1831-1841	4.4	12
144	Operational Prediction of Groundwater Fluctuation in South Florida using Sequence Based Markovian Stochastic Model. <i>Water Resources Management</i> , 2011 , 25, 2279-2294	3.7	12
143	Analysis of energy fluxes and land surface parameters in a grassland ecosystem: a remote sensing perspective. <i>International Journal of Remote Sensing</i> , 2008 , 29, 3325-3341	3.1	12
142	Statistical Downscaling of Precipitation and Temperature for the Upper Tiber Basin in Central Italy 2012 , 1		12
141	Land use and land cover dynamics in the Keleta watershed, Awash River basin, Ethiopia. <i>Environmental Hazards</i> , 2019 , 18, 246-265	4.2	12
140	Projected changes in extreme precipitation indices from CORDEX simulations over Ethiopia, East Africa. <i>Atmospheric Research</i> , 2021 , 247, 105156	5.4	12
139	Spatial evaluation of satellite-retrieved extreme rainfall rates in the Upper Awash River Basin, Ethiopia. <i>Atmospheric Research</i> , 2021 , 249, 105297	5.4	12
138	Teleconnection of Regional Drought to ENSO, PDO, and AMO: Southern Florida and the Everglades. <i>Atmosphere</i> , 2019 , 10, 295	2.7	11
137	Bias correction and characterization of climate forecast system re-analysis daily precipitation in Ethiopia using fuzzy overlay. <i>Meteorological Applications</i> , 2016 , 23, 230-243	2.1	11

136	Interrill erosion, runoff and sediment size distribution as affected by slope steepness and antecedent moisture content		11
135	Multitemporal Land Use/Land Cover Change Detection for the Batena Watershed, Rift Valley Lakes Basin, Ethiopia. <i>Springer Geography</i> , 2016 , 51-72	0.4	11
134	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	4.4	10
133	Assessing the potential of MODIS/Terra version 5 images to improve near shore lake bathymetric surveys. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 36, 13-21	7.3	10
132	Flood susceptibility mapping at Ningdu catchment, China using bivariate and data mining techniques 2019 , 419-434		10
131	Water Quality Changes as a Result of Coalbed Methane Development in a Rocky mountain Watershed1. <i>Journal of the American Water Resources Association</i> , 2007 , 43, 1383-1399	2.1	10
130	Modeling Sediment Dynamics: Effect of Land Use, Topography, and Land Management in the Wami-Ruvu Basin, Tanzania 2014 , 165-192		10
129	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. <i>Sensors</i> , 2020 , 20,	3.8	9
128	Analysis and prediction of meteorological drought using SPI index and ARIMA model in the Karkheh River Basin, Iran 2019 , 343-353		9
127	Spatial Runoff Estimation and Mapping of Potential Water Harvesting Sites: A GIS and Remote Sensing Perspective, Northwest Ethiopia. <i>Springer Geography</i> , 2016 , 565-584	0.4	8
126	Soil Erosion Susceptibility Mapping in Kozetopraghi Catchment, Iran: A Mixed Approach Using Rainfall Simulator and Data Mining Techniques. <i>Land</i> , 2020 , 9, 368	3.5	8
125	Multimodel Ensemble Projection of Hydro-climatic Extremes for Climate Change Impact Assessment on Water Resources. <i>Water Resources Management</i> , 2020 , 34, 3019-3035	3.7	8
124	GIS and Remote Sensing-Based Forest Resource Assessment, Quantification, and Mapping in Amhara Region, Ethiopia. <i>Springer Geography</i> , 2016 , 9-29	0.4	8
123	Numerical modeling of the groundwater flow system of the Gumera sub-basin in Lake Tana basin, Ethiopia. <i>Hydrological Processes</i> , 2009 , 23, n/a-n/a	3.3	8
122	Geospatial Mapping and Analysis of Water Availability, Demand, and Use Within the Mara River Basin 2011 , 359-382		8
121	Cumulative infiltration and infiltration rate prediction using optimized deep learning algorithms: A study in Western Iran. <i>Journal of Hydrology: Regional Studies</i> , 2021 , 35, 100825	3.6	8
120	Groundwater use of a small Eucalyptus patch during the dry monsoon phase. <i>Biologia (Poland)</i> , 2020 , 75, 853-864	1.5	8
119	Impacts on Global Temperature During the First Part of 2020 Due to the Reduction in Human Activities by COVID-19. <i>Air, Soil and Water Research</i> , 2022 , 15, 117862212211019	3.3	8

118	Characterization of the effect of tillage on furrow irrigation hydraulics for the Dire Dawa Area, Ethiopia. <i>Catena</i> , 2013 , 110, 161-175	5.8	7
117	Operational Actual Wetland Evapotranspiration Estimation for South Florida Using MODIS Imagery. <i>Remote Sensing</i> , 2015 , 7, 3613-3632	5	7
116	Climate Change Impact on Water Resources and Adaptation Strategies in the Blue Nile River Basin 2014 , 389-404		7
115	Performance of mungbean under deficit irrigation application in the semi-arid highlands of Ethiopia. <i>Agricultural Water Management</i> , 2014 , 136, 68-74	5.9	7
114	Wetland Evapotranspiration 2013 , 93-108		7
113	Hydrometeorological Analysis of the Mara River Basin, Kenya/Tanzania 2008 ,		7
112	Urban Flood Management through Urban Land Use Optimization Using LID Techniques, City of Addis Ababa, Ethiopia. <i>Water (Switzerland)</i> , 2021 , 13, 1721	3	7
111	Developing Benthic Class Specific, Chlorophyll-a Retrieving Algorithms for Optically-Shallow Water Using SeaWiFS. <i>Sensors</i> , 2016 , 16,	3.8	7
110	Linear spectral unmixing algorithm for modelling suspended sediment concentration of flash floods, upper Tekeze River, Ethiopia. <i>International Journal of Sediment Research</i> , 2020 , 35, 79-90	3	7
109	UpstreamDownstream Linkages of Hydrological Processes in the Nile River Basin. <i>Springer Geography</i> , 2016 , 207-223	0.4	6
108	Toward connecting subtropical algal blooms to freshwater nutrient sources using a long-term, spatially distributed, in situ chlorophyll-a record. <i>Catena</i> , 2015 , 133, 119-127	5.8	6
107	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
106	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. <i>Geosciences (Switzerland)</i> , 2020 , 10, 31	2.7	6
105	Estimation of design discharge for an ungauged overflow-receiving watershed using one-dimensional hydrodynamic model. <i>International Journal of River Basin Management</i> , 2010 , 8, 79-92	1.7	6
104	Land Cover and Land Use Change in the US Prairie Pothole Region Using the USDA Cropland Data Layer. <i>Land</i> , 2020 , 9, 166	3.5	5
103	Evaluating the Response of In Situ Moisture Conservation Techniques in Different Rainfall Distributions and Soil-Type Conditions on Sorghum Production and Soil Moisture Characteristics in Drought-Prone Areas of Northern Ethiopia. <i>Water Conservation Science and Engineering</i> , 2018 , 3, 157-167	1.6	5
102	Temporal relationships between time series CHIRPS-rainfall estimation and eMODIS-NDVI satellite images in Amhara Region, Ethiopia 2019 , 81-92		5
101	MULTITEMPORAL SCALE HYDROGRAPH PREDICTION USING ARTIFICIAL NEURAL NETWORKS1. <i>Journal of the American Water Resources Association</i> , 2006 , 42, 1647-1657	2.1	5

100	Enhancing Land Cover Mapping using Landsat Derived Surface Temperature and NDVI 2001 , 1		5
99	Sediment Yield and Reservoir Sedimentation in Highly Dynamic Watersheds: The Case of Koga Reservoir, Ethiopia. <i>Water (Switzerland)</i> , 2021 , 13, 3374	3	5
98	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1585-1612	4.5	5
97	Climate Change Impact on the Hydrology of Weyb River Watershed, Bale Mountainous Area, Ethiopia. <i>Springer Geography</i> , 2016 , 587-613	0.4	5
96	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
95	Analyses of Land Use/Land Cover Change Dynamics in the Upland Watersheds of Upper Blue Nile Basin. <i>Springer Geography</i> , 2016 , 73-91	0.4	5
94	Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. <i>Hydrology</i> , 2020 , 7, 44	2.8	5
93	Effect of temporal sampling mismatches between satellite rainfall estimates and rain gauge observations on modelling extreme rainfall in the Upper Awash Basin, Ethiopia. <i>Journal of Hydrology</i> , 2021 , 598, 126467	6	5
92	Groundwater Vulnerability Analysis of the Tana Sub-basin: An Application of DRASTIC Index Method. <i>Springer Geography</i> , 2016 , 435-461	0.4	4
91	Evaluation of Technical Standards of Physical Soil and Water Conservation Practices and Their Role in Soil Loss Reduction: The Case of Debre Mewi Watershed, North-west Ethiopia. <i>Springer Geography</i> , 2016 , 789-818	0.4	4
90	Evaluation of the Effects of Water Harvesting on Downstream Water Availability Using SWAT. <i>Springer Geography</i> , 2016 , 763-787	0.4	4
89	Precipitation and streamflow variability in Tekeze River basin, Ethiopia 2019 , 103-121		4
88	Spatiotemporal Surface-Groundwater Interaction Simulation in South Florida. <i>Water Resources Management</i> , 2012 , 26, 4449-4466	3.7	4
87	Evaluation and Comparison of Satellite and GCM Rainfall Estimates for the Mara River Basin, Kenya/Tanzania. <i>Handbook of Environmental Chemistry</i> , 2013 , 29-45	0.8	4
86	Modeling the Impact of Land-Cover and Rainfall Regime Change Scenarios on the Flow of Mara River, Kenya 2008 ,		4
85	EFFECTS OF STATSGO AND SSURGO AS INPUTS ON SWAT MODEL'S SNOWMELT SIMULATION1. <i>Journal of the American Water Resources Association</i> , 2007 , 42, 1217-1236	2.1	4
84	Energy and Carbon Flux Coupling: Multi-ecosystem Comparisons Using Artificial Neural Network. <i>American Journal of Applied Sciences</i> , 2005 , 2, 491-495	0.8	4
83	Seasonal Rainfall Runoff Variability Analysis, Lake Tana Sub-Basin, Upper Blue Nile Basin, Ethiopia. <i>Springer Geography</i> , 2016 , 341-363	0.4	4

82	Flood Forecasting and Stream Flow Simulation of the Upper Awash River Basin, Ethiopia Using Geospatial Stream Flow Model (GeoSFM). <i>Springer Geography</i> , 2016 , 367-384	0.4	4
81	An analysis on the urban heat island effect using radiosonde profiles and Landsat imagery with ground meteorological data in South Florida. <i>International Journal of Remote Sensing</i> , 2016 , 37, 2313-2337	3.1	4
80	Historical flood events and hydrological extremes in Ethiopia 2019 , 379-384		4
79	Land Surface Phenologies and Seasonalities in the US Prairie Pothole Region Coupling AMSR Passive Microwave Data with the USDA Cropland Data Layer. <i>Remote Sensing</i> , 2019 , 11, 2550	5	4
78	Land use dynamics and base and peak flow responses in the Choke mountain range, Upper Blue Nile Basin, Ethiopia. <i>International Journal of River Basin Management</i> , 2021 , 19, 109-121	1.7	4
77	Land Use and Land Cover Change Impact on Groundwater Recharge: The Case of Lake Haramaya Watershed, Ethiopia. <i>Springer Geography</i> , 2016 , 93-110	0.4	3
76	Analysis of Spatiotemporal Trends of Water Quality Parameters Using Cluster Analysis in South Florida 2016 ,		3
75	Spatial relationship of groundwater-phosphorus interaction in the Kissimmee river basin, South Florida. <i>Hydrological Processes</i> , 2015 , 29, 1188-1197	3.3	3
74	Development of a Modified Rational Equation for Arid-Region Runoff Estimation 2011 ,		3
73	Modeling Rainfall Erosivity From Daily Rainfall Events, Upper Blue Nile Basin, Ethiopia 2014 , 307-335		3
72	Groundwater Recharge and Contribution to the Tana Sub-basin, Upper Blue Nile Basin, Ethiopia. <i>Springer Geography</i> , 2016 , 463-481	0.4	3
71	Evaporation and Evapotranspiration Measurement 2013 , 29-42		3
70	Discriminant analysis application in spatiotemporal evaluation of water quality in South Florida. <i>Journal of Hydroinformatics</i> , 2016 , 18, 1019-1032	2.6	3
69	Dam break analysis and flood inundation mapping: The case study of Sefid-Roud Dam, Iran 2019 , 395-405		3
68	Modeling Hydrological Responses to Land Use Dynamics, Choke, Ethiopia. <i>Water Conservation Science and Engineering</i> , 2019 , 4, 201-212	1.6	3
67	Development and application of a priority rated optimization model (PROM) for multi-sector water resource management systems. <i>Environmental Modelling and Software</i> , 2019 , 113, 84-97	5.2	3
66	Land-Lake Linkage and Remote Sensing Application in Water Quality Monitoring in Lake Okeechobee, Florida, USA. <i>Land</i> , 2021 , 10, 147	3.5	3
65	Runoff Estimation and Water Demand Analysis for Holetta River, Awash Subbasin, Ethiopia Using SWAT and CropWat Models. <i>Springer Geography</i> , 2016 , 113-140	0.4	2

64	Effects of large-scale climate signals on snow cover in Khersan watershed, Iran 2019 , 1-10		2
63	Watershed Storage Dynamics in the Upper Blue Nile Basin: The Anjeni Experimental Watershed, Ethiopia. <i>Springer Geography</i> , 2016 , 261-277	0.4	2
62	Sediment Production in Ravines in the Lower Le Sueur River Watershed, Minnesota. <i>Springer Geography</i> , 2016 , 485-522	0.4	2
61	Spatiotemporal Variability of Hydrological Variables of Dapo Watershed, Upper Blue Nile Basin, Ethiopia. <i>Springer Geography</i> , 2016 , 141-161	0.4	2
60	Evaporation and Evapotranspiration Estimation Methods 2013 , 63-91		2
59	Impacts of longterm conservation measures on ecosystem services in Northwest Ethiopia. <i>International Soil and Water Conservation Research</i> , 2020 , 8, 47-55	6.9	2
58	Effects of drought on vegetative cover changes: Investigating spatiotemporal patterns 2019 , 213-222		2
57	Modeling the impacts of land use and land cover dynamics on hydrological processes of the Keleta watershed, Ethiopia. <i>Sustainable Environment</i> , 2021 , 7, 1947632		2
56	Groundwater quality evaluation of the alluvial aquifers using GIS and water quality indices in the Upper Blue Nile Basin, Ethiopia. <i>Groundwater for Sustainable Development</i> , 2021 , 14, 100636	6	2
55	Assessing geomorphic floodplain models for large scale coarse resolution 2D flood modelling in data scarce regions. <i>Geomorphology</i> , 2021 , 389, 107841	4.3	2
54	How suitable are satellite rainfall estimates in simulating high flows and actual evapotranspiration in MelkaKunitre catchment, Upper Awash Basin, Ethiopia?. <i>Science of the Total Environment</i> , 2022 , 806, 150443	10.2	2
53	Shared water resources management 2021 , 153-189		2
52	Scrutinizing Relationships between Submarine Groundwater Discharge and Upstream Areas Using Thermal Remote Sensing: A Case Study in the Northern Persian Gulf. <i>Remote Sensing</i> , 2021 , 13, 358	5	2
51	Suspended sediment load modeling using advanced hybrid rotation forest based elastic network approach. <i>Journal of Hydrology</i> , 2022 , 610, 127963	6	2
50	Water Resources Assessment and Geographic Information System (GIS)-Based Stormwater Runoff Estimates for Artificial Recharge of Freshwater Aquifers in New Providence, Bahamas. <i>Springer Geography</i> , 2016 , 411-434	0.4	1
49	Effect of Filter Press Mud Application on Nutrient Availability in Aquert and Fluvent Soils of Wonji/Shoa Sugarcane Plantation of Ethiopia. <i>Springer Geography</i> , 2016 , 549-563	0.4	1
48	A regional hourly maximum rainfall extraction method for part of Upper Blue Nile Basin, Ethiopia 2019 , 93-102		1
47	Drought and climate teleconnection and drought monitoring 2019 , 275-295		1

46	Lake Evaporation 2013 , 109-132		1
45	Spatially Distributed Surface Energy Flux Modeling 2013 , 141-159		1
44	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
43	Scientific Misconduct and Partisan Research on the Stability of the Grand Ethiopian Renaissance Dam: A Critical Review of a Contribution to Environmental Remote Sensing in Egypt (Springer, 2020). <i>Springer Geography</i> , 2021 , 273-293	0.4	1
42	Soil Governance in Greece: A Snapshot. <i>Soil Security</i> , 2022 , 100035	6	1
41	Climate Change Impact Assessment on Groundwater Recharge of the Upper Tiber Basin (Central Italy). <i>Springer Geography</i> , 2016 , 675-701	0.4	1
40	Bathymetry, Lake Area and Volume Mapping: A Remote-Sensing Perspective 2014 , 253-267		1
39	Double-stage linear spectral unmixing analysis for improving accuracy of sediment concentration estimation from MODIS data: the case of Tekeze River, Ethiopia. <i>Modeling Earth Systems and Environment</i> , 2020 , 6, 407-416	3.2	1
38	Long-term waterEnergyFood security and resources sustainability: a case study of Ethiopia by 2030 and 2050. <i>International Journal of Energy and Water Resources</i> , 2021 , 5, 343-356	2.2	1
37	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
36	Climate-induced flood inundation in Fogera-Dera Floodplain, Lake Tana basin, Ethiopia 2019 , 407-418		1
35	Comparison of Trend Preserving Statistical Downscaling Algorithms Toward an Improved Precipitation Extremes Projection in the Headwaters of Blue Nile River in Ethiopia. <i>Environmental Processes</i> , 2021 , 8, 59-75	2.8	1
34	Implications of land management practices on selected ecosystem services in the agricultural landscapes of Ethiopia: a review. <i>International Journal of River Basin Management</i> , 1-18	1.7	1
33	A Deterministic Topographic Wetland Index Based on LiDAR-Derived DEM for Delineating Open-Water Wetlands. <i>Water (Switzerland)</i> , 2021 , 13, 2487	3	1
32	Compound flood modeling framework for surfaceSubsurface water interactions. <i>Natural Hazards and Earth System Sciences</i> , 2022 , 22, 775-793	3.9	1
31	Ecosystem Service Valuation along Landscape Transformation in Central Ethiopia. <i>Land</i> , 2022 , 11, 500	3.5	1
30	Crop production response to soil moisture and groundwater depletion in the Nile Basin based on multi-source data.. <i>Science of the Total Environment</i> , 2022 , 825, 154007	10.2	1
29	Performance Evaluation of Synthetic Unit Hydrograph Methods in Mediterranean Climate. A Case Study at Guvenc Micro-watershed, Turkey. <i>Springer Geography</i> , 2016 , 293-315	0.4	0

28	Historical Trend Analysis of Rainfall in Amhara National Regional State. <i>Springer Geography</i> , 2021 , 475-491	1.4	0
27	Merging satellite rainfall estimates and daily rain gauge observations for improved flood simulation in MelkaKuntire catchment, upper Awash Basin, Ethiopia. <i>Remote Sensing Applications: Society and Environment</i> , 2022 , 25, 100701	2.8	0
26	Landscape Changes Impact on Regional Hydrology and Climate. <i>Springer Geography</i> , 2016 , 31-50	0.4	0
25	Reservoir operation analysis for Ribb reservoir in the Blue Nile basin 2019 , 191-211		0
24	Evaluation of Regional Climate Models (RCMs) Using Precipitation and Temperature-Based Climatic Indices: A Case Study of Florida, USA. <i>Water (Switzerland)</i> , 2021 , 13, 2411	3	0
23	Evaluation of Global Precipitation Products over Wabi Shebelle River Basin, Ethiopia. <i>Hydrology</i> , 2022 , 9, 66	2.8	0
22	Assessment of Climate and Catchment Control on Drought Propagation in the Tekeze River Basin, Ethiopia. <i>Water (Switzerland)</i> , 2022 , 14, 1564	3	0
21	Understanding the Spatiotemporal Variability of Hydrological Processes for Integrating Watershed Management and Environmental Public Health in the Great River Basin, Jamaica 2015 , 533-561		
20	Effect of Filter Press Mud on Compaction and Consistency of Aquert and Fluvent Soils in Ethiopia. <i>Springer Geography</i> , 2016 , 523-547	0.4	
19	4th International Symposium on Sensor Science (I3S2015): Conference Report. <i>Sensors</i> , 2015 , 15, 24458-65	6.5	
18	Wetland Restoration Assessment Using Remote Sensing- and Surface Energy Budget-Based Evapotranspiration 2013 , 177-195		
17	Crop Yield Estimation Using Remote Sensing and Surface Energy Flux Model 2013 , 161-175		
16	Reference and Crop Evapotranspiration 2013 , 133-140		
15	Reply To Discussionby Xixi Wang, Assefa M. Melesse, Steve W. Kelsch, and Wanhong Yang1. <i>Journal of the American Water Resources Association</i> , 2006 , 42, 1715-1716	2.1	
14	Trends of Hydro-Meteorological Indices in Tendaho Catchment Part of Awash River Basin, Ethiopia. <i>Environmental Sciences Proceedings</i> , 2021 , 4, 33	1	
13	Trends of Hydro-Meteorological Indices in Tendaho Catchment Part of Awash River Basin, Ethiopia. <i>Environmental Sciences Proceedings</i> , 2021 , 4, 33	1	
12	Soil and Water Conservation Technology and Sediment Retention Assessment. <i>Springer Geography</i> , 2021 , 315-343	0.4	
11	WaterEnergyFood (WEF) Nexus Modelling Application to Estimate WEF Investment Portfolio in Ethiopia: A Case Study Applicable to Future Cooperative Investment in the Nile Basin. <i>Springer Geography</i> , 2021 , 195-211	0.4	

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| 10 | Water Conservation Through Decentralized Rainwater Harvesting Under Climate Uncertainty. <i>Springer Geography</i> , 2021 , 383-396 | 0.4 |
| 9 | Restoring Lake Tana Through Reduction of Outflow and Compensation of the Power Gap with an Alternative Energy Source. <i>Springer Geography</i> , 2021 , 423-433 | 0.4 |
| 8 | Rainfall-Runoff and Sediment Yield Modeling in Headwater Catchments of Lake Tana Sub-Basin, Ethiopia. <i>Springer Geography</i> , 2021 , 363-381 | 0.4 |
| 7 | Regional Scale Groundwater Flow Modeling for Wakel River Basin: A Case Study of Southern Rajasthan. <i>Springer Geography</i> , 2016 , 385-409 | 0.4 |
| 6 | Rainfall-Runoff Processes and Modeling: The Case of Meja Watershed in the Upper Blue Nile Basin of Ethiopia. <i>Springer Geography</i> , 2016 , 183-206 | 0.4 |
| 5 | Runoff and Soil Loss Estimation Using N-SPECT in the Rio Grande de Anasco Watershed, Puerto Rico. <i>Springer Geography</i> , 2016 , 163-181 | 0.4 |
| 4 | Estimation of Climate Change Impacts on Water Resources in the Great River Watershed, Jamaica. <i>Springer Geography</i> , 2016 , 703-723 | 0.4 |
| 3 | Energy Requirements of Dew Evaporation 2013 , 43-51 | |
| 2 | Meteorological Parameter Monitoring and Data Quality 2013 , 5-27 | |
| 1 | Multi-model Approach for Spatial Evapotranspiration Mapping: Comparison of Models Performance for Different Ecosystems 2014 , 285-305 | |