Assefa M. Melesse

List of Publications by Year in Descending Order

261 papers	6,722 citations	44 h-index	73 g-index
295 ext. papers	8,170 ext. citations	3.3 avg, IF	6.58 L-index

#	Paper	IF	Citations
261	Merging satellite rainfall estimates and daily rain gauge observations for improved flood simulation in MelkaKuntire catchment, upper Awash Basin, Ethiopia. *Remote Sensing Applications: Society and Environment*, **2022**, 25, 100701	2.8	0
260	Soil Governance in Greece: A Snapshot. *Soil Security*, **2022**, 100035	6	1
259	How suitable are satellite rainfall estimates in simulating high flows and actual evapotranspiration in MelkaKunitre catchment, Upper Awash Basin, Ethiopia?. *Science of the Total Environment*, **2022**, 806, 150443	10.2	2
258	Compound flood modeling framework for surfaceSubsurface water interactions. *Natural Hazards and Earth System Sciences*, **2022**, 22, 775-793	3.9	1
257	Ecosystem Service Valuation along Landscape Transformation in Central Ethiopia. *Land*, **2022**, 11, 500	3.5	1
256	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	10.2	1
255	Evaluation of Global Precipitation Products over Wabi Shebelle River Basin, Ethiopia. *Hydrology*, **2022**, 9, 66	2.8	0
254	Assessment of Climate and Catchment Control on Drought Propagation in the Tekeze River Basin, Ethiopia. *Water (Switzerland)*, **2022**, 14, 1564	3	0
253	Suspended sediment load modeling using advanced hybrid rotation forest based elastic network approach. *Journal of Hydrology*, **2022**, 610, 127963	6	2
252	Impacts on Global Temperature During the First Part of 2020 Due to the Reduction in Human Activities by COVID-19. *Air, Soil and Water Research*, **2022**, 15, 117862212211019	3.3	8
251	Trends of Hydro-Meteorological Indices in Tendaho Catchment Part of Awash River Basin, Ethiopia. *Environmental Sciences Proceedings*, **2021**, 4, 33	1	
250	Trends of Hydro-Meteorological Indices in Tendaho Catchment Part of Awash River Basin, Ethiopia. *Environmental Sciences Proceedings*, **2021**, 4, 33	1	
249	Historical Trend Analysis of Rainfall in Amhara National Regional State. *Springer Geography*, **2021**, 475-491	0.4	0
248	Soil and Water Conservation Technology and Sediment Retention Assessment. *Springer Geography*, **2021**, 315-343	0.4	
247	WaterEnergyFood (WEF) Nexus Modelling Application to Estimate WEF Investment Portfolio in Ethiopia: A Case Study Applicable to Future Cooperative Investment in the Nile Basin. *Springer Geography*, **2021**, 195-211	0.4	
246	Sediment Yield and Reservoir Sedimentation in Highly Dynamic Watersheds: The Case of Koga Reservoir, Ethiopia. *Water (Switzerland)*, **2021**, 13, 3374	3	5
245	Water Conservation Through Decentralized Rainwater Harvesting Under Climate Uncertainty. *Springer Geography*, **2021**, 383-396	0.4	

244	Restoring Lake Tana Through Reduction of Outflow and Compensation of the Power Gap with an Alternative Energy Source. *Springer Geography*, **2021**, 423-433	0.4	
243	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	4.5	5
242	Rainfall-Runoff and Sediment Yield Modeling in Headwater Catchments of Lake Tana Sub-Basin, Ethiopia. *Springer Geography*, **2021**, 363-381	0.4	
241	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). *Springer Geography*, **2021**, 273-293	0.4	1
240	Long-term water–energy–food security and resources sustainability: a case study of Ethiopia by 2030 and 2050. *International Journal of Energy and Water Resources*, **2021**, 5, 343-356	2.2	1
239	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
238	Cumulative infiltration and infiltration rate prediction using optimized deep learning algorithms: A study in Western Iran. *Journal of Hydrology: Regional Studies*, **2021**, 35, 100825	3.6	8
237	Urban Flood Management through Urban Land Use Optimization Using LID Techniques, City of Addis Ababa, Ethiopia. *Water (Switzerland)*, **2021**, 13, 1721	3	7
236	Projected changes in extreme precipitation indices from CORDEX simulations over Ethiopia, East Africa. *Atmospheric Research*, **2021**, 247, 105156	5.4	12
235	Spatial evaluation of satellite-retrieved extreme rainfall rates in the Upper Awash River Basin, Ethiopia. *Atmospheric Research*, **2021**, 249, 105297	5.4	12
234	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	2.8	1
233	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	1.7	4
232	Modeling the impacts of land use and land cover dynamics on hydrological processes of the Keleta watershed, Ethiopia. *Sustainable Environment*, **2021**, 7, 1947632		2
231	Land–Lake Linkage and Remote Sensing Application in Water Quality Monitoring in Lake Okeechobee, Florida, USA. *Land*, **2021**, 10, 147	3.5	3
230	Hydroclimatic Extremes Evaluation Using GRACE/GRACE-FO and Multidecadal Climatic Variables over the Nile River Basin. *Remote Sensing*, **2021**, 13, 651	5	14
229	Effect of temporal sampling mismatches between satellite rainfall estimates and rain gauge observations on modelling extreme rainfall in the Upper Awash Basin, Ethiopia. *Journal of Hydrology*, **2021**, 598, 126467	6	5
228	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	6	2
227	Assessing geomorphic floodplain models for large scale coarse resolution 2D flood modelling in data scarce regions. *Geomorphology*, **2021**, 389, 107841	4.3	2

226	Evaluation of Regional Climate Models (RCMs) Using Precipitation and Temperature-Based Climatic Indices: A Case Study of Florida, USA. *Water (Switzerland)*, **2021**, 13, 2411	3	0
225	A Deterministic Topographic Wetland Index Based on LiDAR-Derived DEM for Delineating Open-Water Wetlands. *Water (Switzerland)*, **2021**, 13, 2487	3	1
224	Shared water resources management **2021**, 153-189		2
223	Scrutinizing Relationships between Submarine Groundwater Discharge and Upstream Areas Using Thermal Remote Sensing: A Case Study in the Northern Persian Gulf. *Remote Sensing*, **2021**, 13, 358	5	2
222	Soil Erosion Susceptibility Mapping in Kozetopraghi Catchment, Iran: A Mixed Approach Using Rainfall Simulator and Data Mining Techniques. *Land*, **2020**, 9, 368	3.5	8
221	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. *Remote Sensing*, **2020**, 12, 3568	5	42
220	River Water Salinity Prediction Using Hybrid Machine Learning Models. *Water (Switzerland)*, **2020**, 12, 2951	3	23
219	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. *Sensors*, **2020**, 20,	3.8	18
218	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,	3.8	9
217	Land Cover and Land Use Change in the US Prairie Pothole Region Using the USDA Cropland Data Layer. *Land*, **2020**, 9, 166	3.5	5
216	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
215	Multimodel Ensemble Projection of Hydro-climatic Extremes for Climate Change Impact Assessment on Water Resources. *Water Resources Management*, **2020**, 34, 3019-3035	3.7	8
214	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	2.7	6
213	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	5	96
212	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
211	Double-stage linear spectral unmixing analysis for improving accuracy of sediment concentration estimation from MODIS data: the case of Tekeze River, Ethiopia. *Modeling Earth Systems and Environment*, **2020**, 6, 407-416	3.2	1
210	Impacts of longterm conservation measures on ecosystem services in Northwest Ethiopia. *International Soil and Water Conservation Research*, **2020**, 8, 47-55	6.9	2
209	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

208	Ensemble models of GLM, FDA, MARS, and RF for flood and erosion susceptibility mapping: a priority assessment of sub-basins. *Geocarto International*, **2020**, 1-20	2.7	39
207	Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. *Hydrology*, **2020**, 7, 44	2.8	5
206	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	7
205	Groundwater use of a small Eucalyptus patch during the dry monsoon phase. *Biologia (Poland)*, **2020**, 75, 853-864	1.5	8
204	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. *Applied Sciences (Switzerland)*, **2019**, 9, 3495	2.6	31
203	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
202	Teleconnection of Regional Drought to ENSO, PDO, and AMO: Southern Florida and the Everglades. *Atmosphere*, **2019**, 10, 295	2.7	11
201	SWPT: An automated GIS-based tool for prioritization of sub-watersheds based on morphometric and topo-hydrological factors. *Geoscience Frontiers*, **2019**, 10, 2167-2175	6	38
200	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	34
199	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	3	16
198	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. *Water (Switzerland)*, **2019**, 11, 1402	3	82
197	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	5	82
196	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	10.2	59
195	Water hyacinth: review of its impacts on hydrology and ecosystem services lessons for management of Lake Tana **2019**, 237-251		25
194	Analysis and prediction of meteorological drought using SPI index and ARIMA model in the Karkheh River Basin, Iran **2019**, 343-353		9
193	Effects of large-scale climate signals on snow cover in Khersan watershed, Iran **2019**, 1-10		2
192	A regional hourly maximum rainfall extraction method for part of Upper Blue Nile Basin, Ethiopia **2019**, 93-102		1
191	Precipitation and streamflow variability in Tekeze River basin, Ethiopia **2019**, 103-121		4

190	Drought and climate teleconnection and drought monitoring **2019**, 275-295		1
189	Temporal relationships between time series CHIRPS-rainfall estimation and eMODIS-NDVI satellite images in Amhara Region, Ethiopia **2019**, 81-92		5
188	Flood susceptibility mapping at Ningdu catchment, China using bivariate and data mining techniques **2019**, 419-434		10
187	Rainfall trend and variability in Southeast Florida: Implications for freshwater availability in the Everglades. *PLoS ONE*, **2019**, 14, e0212008	3.7	17
186	Historical flood events and hydrological extremes in Ethiopia **2019**, 379-384		4
185	Effects of drought on vegetative cover changes: Investigating spatiotemporal patterns **2019**, 213-222		2
184	Land Surface Phenologies and Seasonalities in the US Prairie Pothole Region Coupling AMSR Passive Microwave Data with the USDA Cropland Data Layer. *Remote Sensing*, **2019**, 11, 2550	5	4
183	Reservoir operation analysis for Ribb reservoir in the Blue Nile basin **2019**, 191-211		0
182	Dam break analysis and flood inundation mapping: The case study of Sefid-Roud Dam, Iran **2019**, 395-405		3
181	Climate-induced flood inundation in Fogera-Dera Floodplain, Lake Tana basin, Ethiopia **2019**, 407-418		1
180	Modeling Hydrological Responses to Land Use Dynamics, Choke, Ethiopia. *Water Conservation Science and Engineering*, **2019**, 4, 201-212	1.6	3
179	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	3.6	26
178	Estimating the Sediment Flux and Budget for a Data Limited Rift Valley Lake in Ethiopia. *Hydrology*, **2019**, 6, 1	2.8	29
177	Land use and land cover dynamics in the Keleta watershed, Awash River basin, Ethiopia. *Environmental Hazards*, **2019**, 18, 246-265	4.2	12
176	Development and application of a priority rated optimization model (PROM) for multi-sector water resource management systems. *Environmental Modelling and Software*, **2019**, 113, 84-97	5.2	3
175	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. *Water Conservation Science and Engineering*, **2018**, 3, 157-167	1.6	5
174	Development of an automated GIS tool for reproducing the HAND terrain model. *Environmental Modelling and Software*, **2018**, 102, 1-12	5.2	40
173	Applicability of a Spatially Semi-Distributed Hydrological Model for Watershed Scale Runoff Estimation in Northwest Ethiopia. *Water (Switzerland)*, **2018**, 10, 923	3	21

172	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	1.6	17
171	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,	4.6	37
170	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. *Journal of Hydrology*, **2018**, 565, 248-261	6	96
169	Optimal Operation of Hydropower Reservoirs under Climate Change: The Case of Tekeze Reservoir, Eastern Nile. *Water (Switzerland)*, **2018**, 10, 273	3	20
168	A comparison study of DRASTIC methods with various objective methods for groundwater vulnerability assessment. *Science of the Total Environment*, **2018**, 642, 1032-1049	10.2	95
167	Soil Erosion Modelling and Risk Assessment in Data Scarce Rift Valley Lake Regions, Ethiopia. *Water (Switzerland)*, **2018**, 10, 1684	3	25
166	Assortment and spatiotemporal analysis of surface water quality using cluster and discriminant analyses. *Catena*, **2017**, 151, 247-258	5.8	51
165	Evaluation of watershed scale changes in groundwater and soil moisture storage with the application of GRACE satellite imagery data. *Catena*, **2017**, 153, 50-60	5.8	21
164	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	4.4	10
163	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	2.3	21
162	Groundwater Evaporation and Recharge for a Floodplain in a Sub-humid Monsoon Climate in Ethiopia. *Land Degradation and Development*, **2017**, 28, 1831-1841	4.4	12
161	UpstreamDownstream Linkages of Hydrological Processes in the Nile River Basin. *Springer Geography*, **2016**, 207-223	0.4	6
160	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	5.8	293
159	Climate Change Impact on Sediment Yield in the Upper Gilgel Abay Catchment, Blue Nile Basin, Ethiopia. *Springer Geography*, **2016**, 615-644	0.4	24
158	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	8
157	Land Use and Land Cover Change Impact on Groundwater Recharge: The Case of Lake Haramaya Watershed, Ethiopia. *Springer Geography*, **2016**, 93-110	0.4	3
156	Groundwater Vulnerability Analysis of the Tana Sub-basin: An Application of DRASTIC Index Method. *Springer Geography*, **2016**, 435-461	0.4	4
155	Water Resources Assessment and Geographic Information System (GIS)-Based Stormwater Runoff Estimates for Artificial Recharge of Freshwater Aquifers in New Providence, Bahamas. *Springer Geography*, **2016**, 411-434	0.4	1

154	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. *Springer Geography*, **2016**, 789-818	0.4	4
153	Performance Evaluation of Synthetic Unit Hydrograph Methods in Mediterranean Climate. A Case Study at Guvenc Micro-watershed, Turkey. *Springer Geography*, **2016**, 293-315	0.4	0
152	Landscape Dynamics, Soils and Hydrological Processes in Varied Climates. *Springer Geography*, **2016** ,	0.4	13
151	Effect of Filter Press Mud Application on Nutrient Availability in Aquert and Fluvent Soils of Wonji/Shoa Sugarcane Plantation of Ethiopia. *Springer Geography*, **2016**, 549-563	0.4	1
150	Analysis of Spatiotemporal Trends of Water Quality Parameters Using Cluster Analysis in South Florida **2016**,		3
149	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	5.8	13
148	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	10.2	115
147	Bias correction and characterization of climate forecast system re-analysis daily precipitation in Ethiopia using fuzzy overlay. *Meteorological Applications*, **2016**, 23, 230-243	2.1	11
146	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. *Science of the Total Environment*, **2016**, 568, 1110-1123	10.2	67
145	Evaluation of the Effects of Water Harvesting on Downstream Water Availability Using SWAT. *Springer Geography*, **2016**, 763-787	0.4	4
144	Runoff Estimation and Water Demand Analysis for Holetta River, Awash Subbasin, Ethiopia Using SWAT and CropWat Models. *Springer Geography*, **2016**, 113-140	0.4	2
143	GIS and Remote Sensing-Based Forest Resource Assessment, Quantification, and Mapping in Amhara Region, Ethiopia. *Springer Geography*, **2016**, 9-29	0.4	8
142	Effect of Filter Press Mud on Compaction and Consistency of Aquert and Fluvent Soils in Ethiopia. *Springer Geography*, **2016**, 523-547	0.4	
141	Watershed Storage Dynamics in the Upper Blue Nile Basin: The Anjeni Experimental Watershed, Ethiopia. *Springer Geography*, **2016**, 261-277	0.4	2
140	Seasonal Rainfall-Runoff Variability Analysis, Lake Tana Sub-Basin, Upper Blue Nile Basin, Ethiopia. *Springer Geography*, **2016**, 341-363	0.4	4
139	Flood Forecasting and Stream Flow Simulation of the Upper Awash River Basin, Ethiopia Using Geospatial Stream Flow Model (GeoSFM). *Springer Geography*, **2016**, 367-384	0.4	4
138	Groundwater Recharge and Contribution to the Tana Sub-basin, Upper Blue Nile Basin, Ethiopia. *Springer Geography*, **2016**, 463-481	0.4	3
137	Sediment Production in Ravines in the Lower Le Sueur River Watershed, Minnesota. *Springer Geography*, **2016**, 485-522	0.4	2

136	Climate Change Impact on the Hydrology of Weyb River Watershed, Bale Mountainous Area, Ethiopia. *Springer Geography*, **2016**, 587-613	0.4	5
135	Climate Change Impact on Stream Flow in the Upper Gilgel Abay Catchment, Blue Nile basin, Ethiopia. *Springer Geography*, **2016**, 645-673	0.4	5
134	Climate Change Impact Assessment on Groundwater Recharge of the Upper Tiber Basin (Central Italy). *Springer Geography*, **2016**, 675-701	0.4	1
133	Multitemporal Land Use/Land Cover Change Detection for the Batena Watershed, Rift Valley Lakes Basin, Ethiopia. *Springer Geography*, **2016**, 51-72	0.4	11
132	Analyses of Land Use/Land Cover Change Dynamics in the Upland Watersheds of Upper Blue Nile Basin. *Springer Geography*, **2016**, 73-91	0.4	5
131	Spatiotemporal Variability of Hydrological Variables of Dapo Watershed, Upper Blue Nile Basin, Ethiopia. *Springer Geography*, **2016**, 141-161	0.4	2
130	Regional Scale Groundwater Flow Modeling for Wakel River Basin: A Case Study of Southern Rajasthan. *Springer Geography*, **2016**, 385-409	0.4	
129	RainfallRunoff Processes and Modeling: The Case of Meja Watershed in the Upper Blue Nile Basin of Ethiopia. *Springer Geography*, **2016**, 183-206	0.4	
128	Runoff and Soil Loss Estimation Using N-SPECT in the Rio Grande de Anasco Watershed, Puerto Rico. *Springer Geography*, **2016**, 163-181	0.4	
127	Estimation of Climate Change Impacts on Water Resources in the Great River Watershed, Jamaica. *Springer Geography*, **2016**, 703-723	0.4	
126	Landscape Changes Impact on Regional Hydrology and Climate. *Springer Geography*, **2016**, 31-50	0.4	0
125	Developing Benthic Class Specific, Chlorophyll-a Retrieving Algorithms for Optically-Shallow Water Using SeaWiFS. *Sensors*, **2016**, 16,	3.8	7
124	A Comprehensive Review on Water Quality Parameters Estimation Using Remote Sensing Techniques. *Sensors*, **2016**, 16,	3.8	346
123	Spaceborne and airborne sensors in water quality assessment. *International Journal of Remote Sensing*, **2016**, 37, 3143-3180	3.1	22
122	Discriminant analysis application in spatiotemporal evaluation of water quality in South Florida. *Journal of Hydroinformatics*, **2016**, 18, 1019-1032	2.6	3
121	Streamflow prediction uncertainty analysis and verification of SWAT model in a tropical watershed. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	26
120	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	3.1	4
119	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	5.8	6

118	Detecting land use/land cover changes in the Lake Hayq (Ethiopia) drainage basin, 1957–2007. *Lakes and Reservoirs: Research and Management*, **2015**, 20, 1-18	1.2	16
117	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	3.1	137
116	Understanding the Spatiotemporal Variability of Hydrological Processes for Integrating Watershed Management and Environmental Public Health in the Great River Basin, Jamaica **2015**, 533-561		
115	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	7.3	10
114	Spatial relationship of groundwater–phosphorus interaction in the Kissimmee river basin, South Florida. *Hydrological Processes*, **2015**, 29, 1188-1197	3.3	3
113	Flow Regime Classification and Hydrological Characterization: A Case Study of Ethiopian Rivers. *Water (Switzerland)*, **2015**, 7, 3149-3165	3	26
112	Operational Actual Wetland Evapotranspiration Estimation for South Florida Using MODIS Imagery. *Remote Sensing*, **2015**, 7, 3613-3632	5	7
111	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	5	16
110	Performance of High Resolution Satellite Rainfall Products over Data Scarce Parts of Eastern Ethiopia. *Remote Sensing*, **2015**, 7, 11639-11663	5	37
109	4th International Symposium on Sensor Science (I3S2015): Conference Report. *Sensors*, **2015**, 15, 24458-65	3.3	
108	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	5.8	14
107	Modeling of sediment yield in Maybar gauged watershed using SWAT, northeast Ethiopia. *Catena*, **2015**, 127, 191-205	5.8	97
106	Evaluating sediment storage dams: structural off-site sediment trapping measures in northwest Ethiopia. *Cuadernos De Investigacion Geografica*, **2015**, 41, 7	2.5	87
105	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	3.7	63
104	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	13.2	18
103	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	3.5	51
102	Assessment of water resources availability and demand in the Mara River Basin. *Catena*, **2014**, 115, 104-114	5.8	57
101	Modeling hydrological variability of fresh water resources in the Rio Cobre watershed, Jamaica. *Catena*, **2014**, 120, 81-90	5.8	31

100	Climate Change Impact on Water Resources and Adaptation Strategies in the Blue Nile River Basin **2014**, 389-404		7
99	The Nile River Basin **2014**, 7-21		25
98	Surface Water and Groundwater Resources of Ethiopia: Potentials and Challenges of Water Resources Development **2014**, 97-117		42
97	Performance of mungbean under deficit irrigation application in the semi-arid highlands of Ethiopia. *Agricultural Water Management*, **2014**, 136, 68-74	5.9	7
96	Nile River Basin **2014**,		37
95	Modeling Sediment Dynamics: Effect of Land Use, Topography, and Land Management in the Wami-Ruvu Basin, Tanzania **2014**, 165-192		10
94	Modeling Rainfall Erosivity From Daily Rainfall Events, Upper Blue Nile Basin, Ethiopia **2014**, 307-335		3
93	Climate Change Projections in the Upper Gilgel Abay River Catchment, Blue Nile Basin Ethiopia **2014**, 363-388		18
92	Transboundary Rivers and the Nile **2014**, 565-579		15
91	Climate Teleconnections and Water Management **2014**, 685-705		16
90	Multi-model Approach for Spatial Evapotranspiration Mapping: Comparison of Models Performance for Different Ecosystems **2014**, 285-305		
89	Bathymetry, Lake Area and Volume Mapping: A Remote-Sensing Perspective **2014**, 253-267		1
88	Hydrological analysis of the Upper Tiber River Basin, Central Italy: a watershed modelling approach. *Hydrological Processes*, **2013**, 27, 2339-2351	3.3	30
87	Stage level, volume and time-frequency information content of Lake Tana using stochastic and wavelet analysis methods. *Hydrological Processes*, **2013**, 27, 1475-1483	3.3	20
86	Evaporation and Evapotranspiration **2013**,		43
85	Characterization of the effect of tillage on furrow irrigation hydraulics for the Dire Dawa Area, Ethiopia. *Catena*, **2013**, 110, 161-175	5.8	7
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