

# Christopher E Ndehedehe

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,655  
citations

257101

24  
h-index

301761

39  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing multi-satellite remote sensing, reanalysis, and land surface models' products in characterizing agricultural drought in East Africa. <i>Remote Sensing of Environment</i> , 2017, 194, 287-302.	4.6	185
2	Deep support vector machine for hyperspectral image classification. <i>Pattern Recognition</i> , 2020, 103, 107298.	5.1	147
3	Understanding changes in terrestrial water storage over West Africa between 2002 and 2014. <i>Advances in Water Resources</i> , 2016, 88, 211-230.	1.7	85
4	Spatio-temporal variability of droughts and terrestrial water storage over Lake Chad Basin using independent component analysis. <i>Journal of Hydrology</i> , 2016, 540, 106-128.	2.3	82
5	On the potentials of multiple climate variables in assessing the spatio-temporal characteristics of hydrological droughts over the Volta Basin. <i>Science of the Total Environment</i> , 2016, 557-558, 819-837.	3.9	62
6	Climate teleconnections influence on West Africa's terrestrial water storage. <i>Hydrological Processes</i> , 2017, 31, 3206-3224.	1.1	57
7	Changes in hydro-meteorological conditions over tropical West Africa (1980â€“2015) and links to global climate. <i>Global and Planetary Change</i> , 2018, 162, 321-341.	1.6	51
8	Space-based observations of crustal deflections for drought characterization in Brazil. <i>Science of the Total Environment</i> , 2018, 644, 256-273.	3.9	51
9	Modelling the impacts of global multi-scale climatic drivers on hydro-climatic extremes (1901â€“2014) over the Congo basin. <i>Science of the Total Environment</i> , 2019, 651, 1569-1587.	3.9	49
10	Evolutionary drought patterns over the Sahel and their teleconnections with low frequency climate oscillations. <i>Atmospheric Research</i> , 2020, 233, 104700.	1.8	49
11	The water resources of tropical West Africa: problems, progress, and prospects. <i>Acta Geophysica</i> , 2019, 67, 621-649.	1.0	45
12	Assessing land water storage dynamics over South America. <i>Journal of Hydrology</i> , 2020, 580, 124339.	2.3	45
13	What if the rains do not come?. <i>Journal of Hydrology</i> , 2021, 595, 126040.	2.3	45
14	Analysis of hydrological variability over the Volta river basin using in-situ data and satellite observations. <i>Journal of Hydrology: Regional Studies</i> , 2017, 12, 88-110.	1.0	44
15	Tropical Coastal Wetlands Ameliorate Nitrogen Export During Floods. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	41
16	Characterization of the hydro-geological regime of Yangtze River basin using remotely-sensed and modeled products. <i>Science of the Total Environment</i> , 2020, 718, 137354.	3.9	41
17	Hydropower dam operation strongly controls Lake Victoria's freshwater storage variability. <i>Science of the Total Environment</i> , 2020, 726, 138343.	3.9	35
18	Hydrological controls on surface vegetation dynamics over West and Central Africa. <i>Ecological Indicators</i> , 2019, 103, 494-508.	2.6	32

#	ARTICLE	IF	CITATIONS
19	Prospects for Imaging Terrestrial Water Storage in South America Using Daily GPS Observations. <i>Remote Sensing</i> , 2019, 11, 679.	1.8	30
20	Is terrestrial water storage a useful indicator in assessing the impacts of climate variability on crop yield in semi-arid ecosystems?. <i>Ecological Indicators</i> , 2018, 88, 51-62.	2.6	28
21	Influence of global climate on freshwater changes in Africa's largest endorheic basin using multi-scaled indicators. <i>Science of the Total Environment</i> , 2020, 737, 139643.	3.9	28
22	Exploring evapotranspiration dynamics over Sub-Sahara Africa (2000â€“2014). <i>Environmental Monitoring and Assessment</i> , 2018, 190, 400.	1.3	27
23	Impacts of climate change on the streamflow of a large river basin in the Australian tropics using optimally selected climate model outputs. <i>Journal of Cleaner Production</i> , 2021, 315, 128091.	4.6	27
24	Upstream flows drive the productivity of floodplain ecosystems in tropical Queensland. <i>Ecological Indicators</i> , 2021, 125, 107546.	2.6	26
25	Determining seasonal displacements of Earth's crust in South America using observations from space-borne geodetic sensors and surface-loading models. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	24
26	Satellite-derived changes in floodplain productivity and freshwater habitats in northern Australia (1991â€“2019). <i>Ecological Indicators</i> , 2020, 114, 106320.	2.6	23
27	Integrating machine learning with Markov chain and cellular automata models for modelling urban land use change. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 21, 100461.	0.8	23
28	Predicting hot spots of aquatic plant biomass in a large floodplain river catchment in the Australian wet-dry tropics. <i>Ecological Indicators</i> , 2020, 117, 106616.	2.6	22
29	Deep support vector machine for PolSAR image classification. <i>International Journal of Remote Sensing</i> , 2021, 42, 6498-6536.	1.3	21
30	Identifying the footprints of global climate modes in time-variable gravity hydrological signals. <i>Climatic Change</i> , 2020, 159, 481-502.	1.7	18
31	Assessing Freshwater Changes over Southern and Central Africa (2002â€“2017). <i>Remote Sensing</i> , 2021, 13, 2543.	1.8	18
32	Hydrological hotspots of climatic influence in Brazil: A two-step regularization approach. <i>Atmospheric Research</i> , 2020, 246, 105116.	1.8	16
33	Impacts of Fully Coupling Land Surface and Flood Models on the Simulation of Large Wetlands' Water Dynamics: The Case of the Inner Niger Delta. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002463.	1.3	16
34	Modeling streamflow using multiple precipitation products in a topographically complex catchment. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 1875-1885.	1.9	15
35	Tide modeling using partial least squares regression. <i>Ocean Dynamics</i> , 2020, 70, 1089-1101.	0.9	14
36	Application of a Conceptual Hydrological Model for Streamflow Prediction Using Multi-Source Precipitation Products in a Semi-Arid River Basin. <i>Water (Switzerland)</i> , 2022, 14, 1260.	1.2	14

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37	Tide modelling using support vector machine regression. <i>Journal of Spatial Science</i> , 0, , 1-18.	1.0	13
38	Impacts of Climate Change on the Hydrometeorological Characteristics of the Soan River Basin, Pakistan. <i>Atmosphere</i> , 2021, 12, 792.	1.0	12
39	Understanding uncertainty of model-reanalysis soil moisture within Greater Horn of Africa (1982â€“2014). <i>Journal of Hydrology</i> , 2021, 603, 127169.	2.3	11
40	Estimation of the Niger River cross-section and discharge from remotely-sensed products. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100862.	1.0	9
41	Digital terrain model height estimation using support vector machine regression. <i>South African Journal of Science</i> , 2015, 111, 5.	0.3	8
42	Fracture aquifers identification in the Zou basin (West Africa) using remote sensing and GIS. <i>Geocarto International</i> , 2022, 37, 3199-3222.	1.7	6
43	Estimating the seven transformational parameters between two geodetic datums using the steepest descent algorithm of machine learning. <i>Applied Computing and Geosciences</i> , 2022, 14, 100086.	1.0	5
44	Boosted Regression Tree Algorithm for the Reconstruction of GRACE-Based Terrestrial Water Storage Anomalies in the Yangtze River Basin. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	5
45	A comparison of existing transformation models to improve coordinate conversion between geodetic reference frames in Nigeria. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 611-624.	1.9	4
46	Modelling impacts of climate change on coastal West African rainfall. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 3325-3340.	1.9	4
47	Integration of satellite geodetic observations for regional geoid modeling using remove-compute-restore technique. <i>Earth Science Informatics</i> , 2022, 15, 233-251.	1.6	4
48	Assessing Changes in Terrestrial Water Storage Components over the Great Artesian Basin Using Satellite Observations. <i>Remote Sensing</i> , 2021, 13, 4458.	1.8	4
49	Satellite Geodetic Missions. , 2022, , 53-70.		4
50	The versatility of GNSS observations in hydrological studies. , 2021, , 281-298.		3
51	Remote Sensing of Surface Vegetation. , 2022, , 131-176.		3
52	Drought Events. , 2022, , 249-280.		3
53	Characterization of the hydro-geological regime of fractured aquifers in Benin (West-Africa) using multi-satellites and models. <i>Journal of Hydrology: Regional Studies</i> , 2022, 39, 100987.	1.0	2
54	Anthropogenic Influence on Terrestrial Hydrology. , 2022, , 283-298.		2

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55	Satellite Observations of Terrestrial Water Storage. , 2022, , 331-386.		2
56	Global Freshwater Systems. , 2022, , 19-32.		2
57	Hotspots of Climatic Influence. , 2022, , 629-688.		2
58	Impacts of Water Resources Development on Hydrology. , 2022, , 389-437.		2
59	Modeling implications of climate induced streamflow changes on the fish species of the Soan River, Pakistan. Modeling Earth Systems and Environment, 0, , 1.	1.9	1
60	Cloud-Based Geospatial Analysis. , 2022, , 73-95.		1
61	Optical Remote Sensing Systems. , 2022, , 35-52.		1