

Wim Thiery

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

4,951
citations

94269

37
h-index

106150

65
g-index

153
all docs

153
docs citations

153
times ranked

4882
citing authors

#	ARTICLE	IF	CITATIONS
1	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 333-347.	12.2	536
2	Global terrestrial water storage and drought severity under climate change. <i>Nature Climate Change</i> , 2021, 11, 226-233.	8.1	345
3	Widespread deoxygenation of temperate lakes. <i>Nature</i> , 2021, 594, 66-70.	13.7	267
4	Globally observed trends in mean and extreme river flow attributed to climate change. <i>Science</i> , 2021, 371, 1159-1162.	6.0	213
5	Present-day irrigation mitigates heat extremes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1403-1422.	1.2	194
6	The Impact of the African Great Lakes on the Regional Climate. <i>Journal of Climate</i> , 2015, 28, 4061-4085.	1.2	156
7	Intergenerational inequities in exposure to climate extremes. <i>Science</i> , 2021, 374, 158-160.	6.0	148
8	Storm impacts on phytoplankton community dynamics in lakes. <i>Global Change Biology</i> , 2020, 26, 2756-2784.	4.2	144
9	Warming of hot extremes alleviated by expanding irrigation. <i>Nature Communications</i> , 2020, 11, 290.	5.8	118
10	Phenological shifts in lake stratification under climate change. <i>Nature Communications</i> , 2021, 12, 2318.	5.8	118
11	LakeMIP Kivu: evaluating the representation of a large, deep tropical lake by a set of one-dimensional lake models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 21390.	0.8	88
12	Hazardous thunderstorm intensification over Lake Victoria. <i>Nature Communications</i> , 2016, 7, 12786.	5.8	87
13	Climate change drives widespread shifts in lake thermal habitat. <i>Nature Climate Change</i> , 2021, 11, 521-529.	8.1	87
14	Understanding the performance of the FLake model over two African Great Lakes. <i>Geoscientific Model Development</i> , 2014, 7, 317-337.	1.3	82
15	Crop productivity changes in 1.5°C and 2°C worlds under climate sensitivity uncertainty. <i>Environmental Research Letters</i> , 2018, 13, 064007.	2.2	79
16	A new approach for assessing synergies of solar and wind power: implications for West Africa. <i>Environmental Research Letters</i> , 2018, 13, 094009.	2.2	77
17	The Rwenzori Mountains, a landslide-prone region?. <i>Landslides</i> , 2016, 13, 519-536.	2.7	74
18	The Regional Climate Impact of a Realistic Future Deforestation Scenario in the Congo Basin. <i>Journal of Climate</i> , 2014, 27, 2714-2734.	1.2	70

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19	Attribution of global lake systems change to anthropogenic forcing. <i>Nature Geoscience</i> , 2021, 14, 849-854.	5.4	70
20	Future projections of temperature and mixing regime of European temperate lakes. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1533-1551.	1.9	69
21	Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales. <i>Earth's Future</i> , 2020, 8, e2020EF001616.	2.4	69
22	Cloud and precipitation properties from ground-based remote-sensing instruments in East Antarctica. <i>Cryosphere</i> , 2015, 9, 285-304.	1.5	67
23	Drivers of future changes in East African precipitation. <i>Environmental Research Letters</i> , 2016, 11, 114011.	2.2	66
24	Can climate-effective land management reduce regional warming?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2269-2288.	1.2	66
25	Smart renewable electricity portfolios in West Africa. <i>Nature Sustainability</i> , 2020, 3, 710-719.	11.5	66
26	Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 787-810.	1.9	65
27	Vegetation response to precipitation variability in East Africa controlled by biogeographical factors. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2422-2444.	1.3	60
28	Modelling the water balance of Lake Victoria (East Africa) – Part 1: Observational analysis. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5509-5525.	1.9	60
29	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. <i>Scientific Reports</i> , 2020, 10, 20514.	1.6	56
30	COSMO-CLM regional climate simulations in the Coordinated Regional Climate Downscaling Experiment (CORDEX) framework: a review. <i>Geoscientific Model Development</i> , 2021, 14, 5125-5154.	1.3	55
31	Global climate response to idealized deforestation in CMIP6 models. <i>Biogeosciences</i> , 2020, 17, 5615-5638.	1.3	55
32	Linking solar and wind power in eastern Africa with operation of the Grand Ethiopian Renaissance Dam. <i>Nature Energy</i> , 2021, 6, 407-418.	19.8	49
33	Field-based landslide susceptibility assessment in a data-scarce environment: the populated areas of the Rwenzori Mountains. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 105-124.	1.5	42
34	Evaluating and improving the Community Land Model's sensitivity to land cover. <i>Biogeosciences</i> , 2018, 15, 4731-4757.	1.3	41
35	Landslide inventory for hazard assessment in a data-poor context: a regional-scale approach in a tropical African environment. <i>Landslides</i> , 2018, 15, 2195-2209.	2.7	41
36	Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication. <i>Geoscientific Model Development</i> , 2021, 14, 3843-3878.	1.3	41

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37	Reconstruction of a flash flood event through a multi-hazard approach: focus on the Rwenzori Mountains, Uganda. <i>Natural Hazards</i> , 2016, 84, 851-876.	1.6	40
38	Evapotranspiration simulations in ISIMIP2â€”Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. <i>Environmental Research Letters</i> , 2018, 13, 075001.	2.2	38
39	Evaluating TMPA Rainfall over the Sparsely Gauged East African Rift. <i>Journal of Hydrometeorology</i> , 2018, 19, 1507-1528.	0.7	37
40	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. <i>Geoscientific Model Development</i> , 2022, 15, 4597-4623.	1.3	37
41	Modelling the water balance of Lake Victoria (East Africa) â€” Part 2: Future projections. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5527-5549.	1.9	36
42	Amplified Drought and Flood Risk Under Future Socioeconomic and Climatic Change. <i>Earth's Future</i> , 2021, 9, e2021EF002295.	2.4	36
43	Early warnings of hazardous thunderstorms over Lake Victoria. <i>Environmental Research Letters</i> , 2017, 12, 074012.	2.2	35
44	Surface and snowdrift sublimation at Princess Elisabeth station, East Antarctica. <i>Cryosphere</i> , 2012, 6, 841-857.	1.5	32
45	Landslide susceptibility and mobilization rates in the Mount Elgon region, Uganda. <i>Landslides</i> , 2019, 16, 571-584.	2.7	32
46	A convection-permitting model for the Lake Victoria Basin: evaluation and insight into the mesoscale versus synoptic atmospheric dynamics. <i>Climate Dynamics</i> , 2020, 54, 1779-1799.	1.7	32
47	Mass balance calibration and reservoir representations for large-scale hydrological impact studies using SWAT+. <i>Climatic Change</i> , 2020, 163, 1307-1327.	1.7	32
48	Estimating the effect of rainfall on the surface temperature of a tropical lake. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6357-6369.	1.9	31
49	Global Heat Uptake by Inland Waters. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087867.	1.5	31
50	Burning embers: towards more transparent and robust climate-change risk assessments. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 516-529.	12.2	29
51	Multi-year wind dynamics around Lake Tanganyika. <i>Climate Dynamics</i> , 2016, 47, 3191-3202.	1.7	28
52	Towards more predictive and interdisciplinary climate change ecosystem experiments. <i>Nature Climate Change</i> , 2019, 9, 809-816.	8.1	28
53	Modelled biophysical impacts of conservation agriculture on local climates. <i>Global Change Biology</i> , 2018, 24, 4758-4774.	4.2	27
54	Global increase in methane production under future warming of lake bottom waters. <i>Global Change Biology</i> , 2022, 28, 5427-5440.	4.2	27

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55	The local climate impact of an African city during clear-sky conditions”Implications of the recent urbanization in Kampala (Uganda). <i>International Journal of Climatology</i> , 2020, 40, 4586-4608.	1.5	25
56	Pronounced and unavoidable impacts of low-end global warming on northern high-latitude land ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 044006.	2.2	25
57	Citizen science shows systematic changes in the temperature difference between air and inland waters with global warming. <i>Scientific Reports</i> , 2017, 7, 43890.	1.6	21
58	Multimodel simulation of vertical gas transfer in a temperate lake. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 697-715.	1.9	20
59	Climate change reduces winter overland travel across the Pan-Arctic even under low-end global warming scenarios. <i>Environmental Research Letters</i> , 2021, 16, 024049.	2.2	20
60	A quantitative evaluation of the issue of drought definition: a source of disagreement in future drought assessments. <i>Environmental Research Letters</i> , 2021, 16, 104001.	2.2	18
61	Long-term change of phytoplankton in Lake Kivu: The rise of the greens. <i>Freshwater Biology</i> , 2019, 64, 1940-1955.	1.2	17
62	Potential of global land water recycling to mitigate local temperature extremes. <i>Earth System Dynamics</i> , 2019, 10, 157-169.	2.7	17
63	User-friendly workflows for catchment modelling: Towards reproducible SWAT+ model studies. <i>Environmental Modelling and Software</i> , 2020, 134, 104812.	1.9	17
64	3D-modelling of Lake Kivu: Horizontal and vertical flow and temperature structure under spatially variable atmospheric forcing. <i>Journal of Great Lakes Research</i> , 2020, 46, 947-960.	0.8	16
65	One simulation, different conclusions”the baseline period makes the difference!. <i>Environmental Research Letters</i> , 2020, 15, 104014.	2.2	16
66	Can we use local climate zones for predicting malaria prevalence across sub-Saharan African cities?. <i>Environmental Research Letters</i> , 2020, 15, 124051.	2.2	16
67	Lack of vegetation exacerbates exposure to dangerous heat in dense settlements in a tropical African city. <i>Environmental Research Letters</i> , 2022, 17, 024004.	2.2	16
68	Need for harmonized long-term multi-lake monitoring of African Great Lakes. <i>Journal of Great Lakes Research</i> , 2023, 49, 101988.	0.8	16
69	A fully consistent and conservative vertically adaptive coordinate system for SLIM3D v0.4 with an application to the thermocline oscillations of Lake Tanganyika. <i>Geoscientific Model Development</i> , 2018, 11, 1161-1179.	1.3	15
70	Turbines of the Caribbean: Decarbonising Suriname's electricity mix through hydro-supported integration of wind power. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110352.	8.2	14
71	Global Economic Responses to Heat Stress Impacts on Worker Productivity in Crop Production. <i>Economics of Disasters and Climate Change</i> , 2021, 5, 367-390.	1.3	12
72	Evaluating a reservoir parametrization in the vector-based global routing model mizuRoute (v2.0.1) for Earth system model coupling. <i>Geoscientific Model Development</i> , 2022, 15, 4163-4192.	1.3	11

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73	The extent and variability of storm-induced temperature changes in lakes measured with long-term and high-frequency data. <i>Limnology and Oceanography</i> , 2021, 66, 1979-1992.	1.6	10
74	Simulating the Impact of Global Reservoir Expansion on the Present-Day Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034485.	1.2	9
75	A novel method for assessing climate change impacts in ecotron experiments. <i>International Journal of Biometeorology</i> , 2020, 64, 1709-1727.	1.3	8
76	Future intensification of precipitation and wind gust associated thunderstorms over Lake Victoria. <i>Weather and Climate Extremes</i> , 2021, 34, 100391.	1.6	8
77	Can local fieldwork help to represent intra-urban variability of canopy parameters relevant for tropical African climate studies?. <i>Theoretical and Applied Climatology</i> , 2021, 146, 457-474.	1.3	7
78	Global data set of long-term summertime vertical temperature profiles in 153 lakes. <i>Scientific Data</i> , 2021, 8, 200.	2.4	7
79	Agricultural management effects on mean and extreme temperature trends. <i>Earth System Dynamics</i> , 2022, 13, 419-438.	2.7	6
80	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 0, 1, 29.	2.0	6
81	Phytoplankton pigment analysis as a tool for monitoring a tropical great lake, Lake Kivu (East Africa). <i>Inland Waters</i> , 2021, 11, 223-233.	1.1	4
82	Validity of estimating flood and drought characteristics under equilibrium climates from transient simulations. <i>Environmental Research Letters</i> , 2021, 16, 104028.	2.2	4
83	Evaluation of high-resolution precipitation products over the Rwenzori Mountains (Uganda). <i>Journal of Hydrometeorology</i> , 2022, , .	0.7	4
84	REVUB-Light: A parsimonious model to assess power system balancing and flexibility for optimal intermittent renewable energy integration – A study of Suriname. <i>Renewable Energy</i> , 2021, 173, 57-75.	4.3	3
85	Pieces of a puzzle: solar-wind power synergies on seasonal and diurnal timescales tend to be excellent worldwide. <i>Environmental Research Communications</i> , 2022, 4, 055011.	0.9	3
86	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 0, 1, 29.	2.0	1
87	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 0, 1, 29.	2.0	1
88	Independent Quality Assessment of Essential Climate Variables: Lessons learnt from the Copernicus Climate Change Service. <i>Bulletin of the American Meteorological Society</i> , 2022, , .	1.7	1