

Philipp Kraft

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,429
citations

393982

19
h-index

344852

36
g-index

58
all docs

58
docs citations

58
times ranked

2392
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple Catchments and Where to Find Them: The Storage-Discharge Relationship as a Proxy for Catchment Complexity. <i>Frontiers in Water</i> , 2021, 3, .	1.0	4
2	Application of Machine Learning Models to Predict Maximum Event Water Fractions in Streamflow. <i>Frontiers in Water</i> , 2021, 3, .	1.0	12
3	Detection of hidden model errors by combining single and multi-criteria calibration. <i>Science of the Total Environment</i> , 2021, 777, 146218.	3.9	4
4	Unprecedented Retention Capabilities of Extensive Green Roofsâ€™ New Design Approaches and an Open-Source Model. <i>Frontiers in Water</i> , 2021, 3, .	1.0	5
5	Modelling Agroforestryâ€™s Contributions to Peopleâ€™ A Review of Available Models. <i>Agronomy</i> , 2021, 11, 2106.	1.3	16
6	Simulating Long-Term Development of Greenhouse Gas Emissions, Plant Biomass, and Soil Moisture of a Temperate Grassland Ecosystem under Elevated Atmospheric CO ₂ . <i>Agronomy</i> , 2020, 10, 50.	1.3	11
7	Using hydrological and climatic catchment clusters to explore drivers of catchment behavior. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1081-1100.	1.9	46
8	High-Resolution, In Situ Monitoring of Stable Isotopes of Water Revealed Insight into Hydrological Response Behavior. <i>Water (Switzerland)</i> , 2020, 12, 565.	1.2	11
9	Review of soil phosphorus routines in ecosystem models. <i>Environmental Modelling and Software</i> , 2020, 126, 104639.	1.9	8
10	Investigating unproductive water losses from irrigated agricultural crops in the humid tropics through analyses of stable isotopes of water. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3627-3642.	1.9	15
11	Modelling of rare flood meadow species distribution by a combined habitat surface waterâ€™groundwater model. <i>Ecohydrology</i> , 2019, 12, e2122.	1.1	6
12	Response of maize biomass and soil water fluxes on elevated CO ₂ and droughtâ€™ From field experiments to processâ€™based simulations. <i>Global Change Biology</i> , 2019, 25, 2947-2957.	4.2	22
13	Rainfallâ€™Runoff Modeling Using Crowdsourced Water Level Data. <i>Water Resources Research</i> , 2019, 55, 10856-10871.	1.7	12
14	Closing the N-Budget: How Simulated Groundwater-Borne Nitrate Supply Affects Plant Growth and Greenhouse Gas Emissions on Temperate Grassland. <i>Atmosphere</i> , 2018, 9, 407.	1.0	5
15	High-Frequency Water Isotopic Analysis Using an Automatic Water Sampling System in Rice-Based Cropping Systems. <i>Water (Switzerland)</i> , 2018, 10, 1327.	1.2	9
16	Incremental model breakdown to assess the multi-hypotheses problem. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4565-4581.	1.9	4
17	Quantification of plant water uptake by water stable isotopes in rice paddy systems. <i>Plant and Soil</i> , 2018, 429, 281-302.	1.8	28
18	Multi-Source Uncertainty Analysis in Simulating Floodplain Inundation under Climate Change. <i>Water (Switzerland)</i> , 2018, 10, 809.	1.2	3

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19	Exploring impacts of vegetated buffer strips on nitrogen cycling using a spatially explicit hydro-biogeochemical modeling approach. <i>Environmental Modelling and Software</i> , 2017, 90, 55-67.	1.9	17
20	A coupled hydrological-plant growth model for simulating the effect of elevated CO ₂ on a temperate grassland. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 42-50.	1.9	17
21	Rejecting hydro-biogeochemical model structures by multi-criteria evaluation. <i>Environmental Modelling and Software</i> , 2017, 93, 1-12.	1.9	19
22	Prediction and uncertainty analysis of a parsimonious floodplain surface water-groundwater interaction model. <i>Water Resources Research</i> , 2017, 53, 7678-7695.	1.7	8
23	Effect of (quasi-)optimum model parameter sets and model characteristics on future discharge projection of two basins from Europe and Asia. <i>Climatic Change</i> , 2017, 142, 559-573.	1.7	4
24	Development of a dual permeability model within a hydrological catchment modeling framework: 1D application. <i>Science of the Total Environment</i> , 2017, 575, 1429-1437.	3.9	13
25	Evaluation of an ensemble of regional hydrological models in 12 large-scale river basins worldwide. <i>Climatic Change</i> , 2017, 141, 381-397.	1.7	76
26	Exploring water cycle dynamics by sampling multiple stable water isotope pools in a developed landscape in Germany. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3873-3894.	1.9	33
27	Uncertainty Analysis of a Coupled Hydrological-plant Growth Model for Grassland under Elevated CO ₂ . <i>Procedia Environmental Sciences</i> , 2015, 29, 79-80.	1.3	0
28	HydroCrowd: a citizen science snapshot to assess the spatial control of nitrogen solutes in surface waters. <i>Scientific Reports</i> , 2015, 5, 16503.	1.6	33
29	SPOTting Model Parameters Using a Ready-Made Python Package. <i>PLoS ONE</i> , 2015, 10, e0145180.	1.1	118
30	Simulation of Land Management Effects on Soil N ₂ O Emissions Using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. , 2015, , 2207-2231.		0
31	Linking Spatial Patterns of Groundwater Table Dynamics and Streamflow Generation Processes in a Small Developed Catchment. <i>Water (Switzerland)</i> , 2014, 6, 3085-3117.	1.2	21
32	Stable water isotope tracing through hydrological models for disentangling runoff generation processes at the hillslope scale. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4113-4127.	1.9	33
33	Impact of modellers' decisions on hydrological a priori predictions. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2065-2085.	1.9	25
34	Monte Carlo-based calibration and uncertainty analysis of a coupled plant growth and hydrological model. <i>Biogeosciences</i> , 2014, 11, 2069-2082.	1.3	42
35	Set Up of an Automatic Water Quality Sampling System in Irrigation Agriculture. <i>Sensors</i> , 2014, 14, 212-228.	2.1	20
36	LandscapeDNDC: a process model for simulation of biosphere-atmosphere-hydrosphere exchange processes at site and regional scale. <i>Landscape Ecology</i> , 2013, 28, 615-636.	1.9	126

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37	Degradation kinetics of biochar from pyrolysis and hydrothermal carbonization in temperate soils. <i>Plant and Soil</i> , 2013, 372, 375-387.	1.8	60
38	Simulation of Land Management Effects on Soil N ₂ O Emissions using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. , 2013, , 1-22.		1
39	Model intercomparison to explore catchment functioning: Results from a remote montane tropical rainforest. <i>Ecological Modelling</i> , 2012, 239, 3-13.	1.2	42
40	CMF: A Hydrological Programming Language Extension For Integrated Catchment Models. <i>Environmental Modelling and Software</i> , 2011, 26, 828-830.	1.9	73
41	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. <i>Hydrological Processes</i> , 2010, 24, 1745-1754.	1.1	276
42	Comparative predictions of discharge from an artificial catchment (Chicken Creek) using sparse data. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2069-2094.	1.9	97
43	Critical loads and their exceedances at intensive forest monitoring sites in Europe. <i>Environmental Pollution</i> , 2008, 155, 426-435.	3.7	34
44	Using Python as a coupling platform for integrated catchment models. <i>Advances in Geosciences</i> , 0, 27, 51-56.	12.0	11
45	Maize response to free air CO ₂ enrichment under ample and restricted water supply: field experimental data and output of a process-based hydrological plant growth model. <i>Open Data Journal for Agricultural Research</i> , 0, 6, 34-38.	1.3	0