Philipp Kraft

List of Publications by Year
in descending order

45 papers	1,429 citations	394421 19 h-index	345221 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. Frontiers in Water, 2021, 3, .	2.3	4
2	Application of Machine Learning Models to Predict Maximum Event Water Fractions in Streamflow. Frontiers in Water, 2021, 3, .	2.3	12
3	Detection of hidden model errors by combining single and multi-criteria calibration. Science of the Total Environment, 2021, 777, 146218.	8.0	4
4	Unprecedented Retention Capabilities of Extensive Green Roofsâ€"New Design Approaches and an Open-Source Model. Frontiers in Water, 2021, 3, .	2.3	5
5	Modelling Agroforestryâ€™s Contributions to Peopleâ€"A Review of Available Models. Agronomy, 2021, 11, 2106.	3.0	16
6	Simulating Long-Term Development of Greenhouse Gas Emissions, Plant Biomass, and Soil Moisture of a Temperate Grassland Ecosystem under Elevated Atmospheric CO2. Agronomy, 2020, 10, 50.	3.0	11
7	Using hydrological and climatic catchment clusters to explore drivers of catchment behavior. Hydrology and Earth System Sciences, 2020, 24, 1081-1100.	4.9	46
8	High-Resolution, In Situ Monitoring of Stable Isotopes of Water Revealed Insight into Hydrological Response Behavior. Water (Switzerland), 2020, 12, 565.	2.7	11
9	Review of soil phosphorus routines in ecosystem models. Environmental Modelling and Software, 2020, 126, 104639.	4.5	8
10	Investigating unproductive water losses from irrigated agricultural crops in the humid tropics through analyses of stable isotopes of water. Hydrology and Earth System Sciences, 2020, 24, 3627-3642.	4.9	15
11	Modelling of rare flood meadow species distribution by a combined habitat surface waterâ€"groundwater model. Ecohydrology, 2019, 12, e2122.	2.4	6
12	Response of maize biomass and soil water fluxes on elevated CO₂ and droughtâ€"From field experiments to processâ€based simulations. Global Change Biology, 2019, 25, 2947-2957.	9.5	22
13	Rainfallâ€Runoff Modeling Using Crowdsourced Water Level Data. Water Resources Research, 2019, 55, 10856-10871.	4.2	12
14	Closing the N-Budget: How Simulated Groundwater-Borne Nitrate Supply Affects Plant Growth and Greenhouse Gas Emissions on Temperate Grassland. Atmosphere, 2018, 9, 407.	2.3	5
15	High-Frequency Water Isotopic Analysis Using an Automatic Water Sampling System in Rice-Based Cropping Systems. Water (Switzerland), 2018, 10, 1327.	2.7	9
16	Incremental model breakdown to assess the multi-hypotheses problem. Hydrology and Earth System Sciences, 2018, 22, 4565-4581.	4.9	4
17	Quantification of plant water uptake by water stable isotopes in rice paddy systems. Plant and Soil, 2018, 429, 281-302.	3.7	28
18	Multi-Source Uncertainty Analysis in Simulating Floodplain Inundation under Climate Change. Water (Switzerland), 2018, 10, 809.	2.7	3

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19	Exploring impacts of vegetated buffer strips on nitrogen cycling using a spatially explicit hydro-biogeochemical modeling approach. Environmental Modelling and Software, 2017, 90, 55-67.	4.5	17
20	A coupled hydrological-plant growth model for simulating the effect of elevated CO 2 on a temperate grassland. Agricultural and Forest Meteorology, 2017, 246, 42-50.	4.8	17
21	Rejecting hydro-biogeochemical model structures by multi-criteria evaluation. Environmental Modelling and Software, 2017, 93, 1-12.	4.5	19
22	Prediction and uncertainty analysis of a parsimonious floodplain surface waterâ€groundwater interaction model. Water Resources Research, 2017, 53, 7678-7695.	4.2	8
23	Effect of (quasi-)optimum model parameter sets and model characteristics on future discharge projection of two basins from Europe and Asia. Climatic Change, 2017, 142, 559-573.	3.6	4
24	Development of a dual permeability model within a hydrological catchment modeling framework: 1D application. Science of the Total Environment, 2017, 575, 1429-1437.	8.0	13
25	Evaluation of an ensemble of regional hydrological models in 12 large-scale river basins worldwide. Climatic Change, 2017, 141, 381-397.	3.6	76
26	Exploring water cycle dynamics by sampling multiple stable water isotope pools in a developed landscape in Germany. Hydrology and Earth System Sciences, 2016, 20, 3873-3894.	4.9	33
27	Uncertainty Analysis of a Coupled Hydrological-plant Growth Model for Grassland under Elevated CO2. Procedia Environmental Sciences, 2015, 29, 79-80.	1.4	0
28	HydroCrowd: a citizen science snapshot to assess the spatial control of nitrogen solutes in surface waters. Scientific Reports, 2015, 5, 16503.	3.3	33
29	SPOTting Model Parameters Using a Ready-Made Python Package. PLoS ONE, 2015, 10, e0145180.	2.5	118
30	Simulation of Land Management Effects on Soil N2O 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. Water (Switzerland), 2014, 6, 3085-3117.	2.7	21
32	Stable water isotope tracing through hydrological models for disentangling runoff generation processes at the hillslope scale. Hydrology and Earth System Sciences, 2014, 18, 4113-4127.	4.9	33
33	Impact of modellers' decisions on hydrological a priori predictions. Hydrology and Earth System Sciences, 2014, 18, 2065-2085.	4.9	25
34	Monte Carlo-based calibration and uncertainty analysis of a coupled plant growth and hydrological model. Biogeosciences, 2014, 11, 2069-2082.	3.3	42
35	Set Up of an Automatic Water Quality Sampling System in Irrigation Agriculture. Sensors, 2014, 14, 212-228.	3.8	20
36	LandscapeDNDC: a process model for simulation of biosphereâ€“atmosphereâ€“hydrosphere exchange processes at site and regional scale. Landscape Ecology, 2013, 28, 615-636.	4.2	126

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37	Degradation kinetics of biochar from pyrolysis and hydrothermal carbonization in temperate soils. Plant and Soil, 2013, 372, 375-387.	3.7	60
38	Simulation of Land Management Effects on Soil N2O 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. Ecological Modelling, 2012, 239, 3-13.	2.5	42
40	CMF: A Hydrological Programming Language Extension For Integrated Catchment Models. Environmental Modelling and Software, 2011, 26, 828-830.	4.5	73
41	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. Hydrological Processes, 2010, 24, 1745-1754.	2.6	276
42	Comparative predictions of discharge from an artificial catchment (Chicken Creek) using sparse data. Hydrology and Earth System Sciences, 2009, 13, 2069-2094.	4.9	97
43	Critical loads and their exceedances at intensive forest monitoring sites in Europe. Environmental Pollution, 2008, 155, 426-435.	7.5	34
44	Using Python as a coupling platform for integrated catchment models. Advances in Geosciences, 0, 27, 51-56.	12.0	11
45	Maize response to free air CO2 enrichment under ample and restricted water supply: field experimental data and output of a process-based hydrological plant growth model. Open Data Journal for Agricultural Research, 0, 6, 34-38.	1.3	0