

Matthias Zink

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9137278/publications.pdf>

Version: 2024-02-01

24
papers

1,799
citations

430874

18
h-index

642732

23
g-index

38
all docs

38
docs citations

38
times ranked

2714
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic warming exacerbates European soil moisture droughts. <i>Nature Climate Change</i> , 2018, 8, 421-426.	18.8	439
2	Climate change alters low flows in Europe under global warming of 1.5, 2, and 3°C. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1017-1032.	4.9	146
3	Implications of Parameter Uncertainty on Soil Moisture Drought Analysis in Germany. <i>Journal of Hydrometeorology</i> , 2013, 14, 47-68.	1.9	130
4	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. <i>Journal of Hydrometeorology</i> , 2016, 17, 287-307.	1.9	120
5	The German drought monitor. <i>Environmental Research Letters</i> , 2016, 11, 074002.	5.2	108
6	Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. <i>Environmental Research Letters</i> , 2018, 13, 014003.	5.2	104
7	The Bode hydrological observatory: a platform for integrated, interdisciplinary hydro-ecological research within the TERENO Harz/Central German Lowland Observatory. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	93
8	A high-resolution dataset of water fluxes and states for Germany accounting for parametric uncertainty. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1769-1790.	4.9	83
9	Toward seamless hydrologic predictions across spatial scales. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4323-4346.	4.9	81
10	Exploring Controls on Rainfall-Runoff Events: 1. Time Series-Based Event Separation and Temporal Dynamics of Event Runoff Response in Germany. <i>Water Resources Research</i> , 2018, 54, 7711-7732.	4.2	75
11	Conditioning a Hydrologic Model Using Patterns of Remotely Sensed Land Surface Temperature. <i>Water Resources Research</i> , 2018, 54, 2976-2998.	4.2	61
12	Computationally inexpensive identification of noninformative model parameters by sequential screening. <i>Water Resources Research</i> , 2015, 51, 6417-6441.	4.2	54
13	Spatial Patterns of Water Age: Using Young Water Fractions to Improve the Characterization of Transit Times in Contrasting Catchments. <i>Water Resources Research</i> , 2018, 54, 4767-4784.	4.2	52
14	The importance of topography-controlled sub-grid process heterogeneity and semi-quantitative prior constraints in distributed hydrological models. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1151-1176.	4.9	47
15	A New Fully Distributed Model of Nitrate Transport and Removal at Catchment Scale. <i>Water Resources Research</i> , 2018, 54, 5856-5877.	4.2	39
16	Discharge Driven Nitrogen Dynamics in a Mesoscale River Basin As Constrained by Stable Isotope Patterns. <i>Environmental Science & Technology</i> , 2016, 50, 9187-9196.	10.0	34
17	Effects of uncertainty in soil properties on simulated hydrological states and fluxes at different spatio-temporal scales. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2301-2320.	4.9	33
18	Stochastic temporal disaggregation of monthly precipitation for regional gridded data sets. <i>Water Resources Research</i> , 2014, 50, 8714-8735.	4.2	20

#	ARTICLE	IF	CITATIONS
19	Hydrometeorology of the Dhofar cloud forest and its implications for groundwater recharge. <i>Journal of Hydrology: Regional Studies</i> , 2018, 16, 54-66.	2.4	19
20	Improved regional-scale groundwater representation by the coupling of the mesoscale Hydrologic Model (mHM v5.7) to the groundwater model OpenGeoSys (OGS). <i>Geoscientific Model Development</i> , 2018, 11, 1989-2007.	3.6	18
21	Spatially distributed characterization of soil-moisture dynamics using travel-time distributions. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 549-570.	4.9	16
22	HESS Opinions: Science in today's media landscape – challenges and lessons from hydrologists and journalists. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3589-3599.	4.9	5
23	A National Scale Planning Tool for Agricultural Droughts in Germany. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2018, 3, 147-169.	0.5	3
24	Wissenschaftliche Information für die Anwendung. , 2017, , 119-141.		1