

Theresa Blume

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

3,430
citations

159585
30
h-index

149698
56
g-index

93
all docs

93
docs citations

93
times ranked

4394
citing authors

#	ARTICLE	IF	CITATIONS
1	Holocene lake-level evolution of Lake Tiefer See, NE Germany, caused by climate and land cover changes. <i>Boreas</i> , 2022, 51, 299-316.	2.4	8
2	Comparative analysis of throughfall observations in six different forest stands: Influence of seasons, rainfall and stand characteristics. <i>Hydrological Processes</i> , 2022, 36, .	2.6	6
3	COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors. <i>Earth System Science Data</i> , 2022, 14, 1125-1151.	9.9	33
4	Event controls on intermittent streamflow in a temperate climate. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2671-2696.	4.9	1
5	Suspended sediment and discharge dynamics in a glaciated alpine environment: identifying crucial areas and time periods on several spatial and temporal scales in the Ätztal, Austria. <i>Earth Surface Dynamics</i> , 2022, 10, 653-669.	2.4	3
6	Field-scale Subsurface Flow Processes Inferred From Continuous Gravity Monitoring During a Sprinkling Experiment. <i>Water Resources Research</i> , 2021, 57, e2021WR030044.	4.2	3
7	Preface: Linking landscape organisation and hydrological functioning: from hypotheses and observations to concepts, models and understanding. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5277-5285.	4.9	3
8	Towards disentangling heterogeneous soil moisture patterns in cosmic-ray neutron sensor footprints. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6547-6566.	4.9	12
9	Estimates of tree root water uptake from soil moisture profile dynamics. <i>Biogeosciences</i> , 2020, 17, 5787-5808.	3.3	19
10	A dense network of cosmic-ray neutron sensors for soil moisture observation in a highly instrumented pre-Alpine headwater catchment in Germany. <i>Earth System Science Data</i> , 2020, 12, 2289-2309.	9.9	44
11	The impact of landscape evolution on soil physics: evolution of soil physical and hydraulic properties along two chronosequences of proglacial moraines. <i>Earth System Science Data</i> , 2020, 12, 3189-3204.	9.9	17
12	Soil moisture: variable in space but redundant in time. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2633-2653.	4.9	19
13	Field observations of soil hydrological flow path evolution over 10 millennia. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3271-3288.	4.9	13
14	Predicting probabilities of streamflow intermittency across a temperate mesoscale catchment. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5453-5472.	4.9	14
15	Characterising hillslope-stream connectivity with a joint event analysis of stream and groundwater levels. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5713-5744.	4.9	11
16	Reducing gravity data for the influence of water storage variations beneath observatory buildings. <i>Geophysics</i> , 2019, 84, EN15-EN31.	2.6	22
17	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
18	Does the Normalized Difference Vegetation Index explain spatial and temporal variability in sap velocity in temperate forest ecosystems?. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2077-2091.	4.9	11

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19	Energy states of soil water – a thermodynamic perspective on soil water dynamics and storage-controlled streamflow generation in different landscapes. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 971-987.	4.9	9
20	How can we model subsurface stormflow at the catchment scale if we cannot measure it?. <i>Hydrological Processes</i> , 2019, 33, 1378-1385.	2.6	19
21	Spatio-temporal relevance and controls of preferential flow at the landscape scale. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4869-4889.	4.9	41
22	Finding behavioral parameterization for a 1-D water balance model by multi-criteria evaluation. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 213-224.	2.0	4
23	Monitoring ephemeral, intermittent and perennial streamflow: a dataset from 182 sites in the Attert catchment, Luxembourg. <i>Earth System Science Data</i> , 2019, 11, 1363-1374.	9.9	27
24	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. <i>Hydrological Sciences Journal</i> , 2018, 63, 169-196.	2.6	151
25	Interdisciplinary Geo-ecological Research across Time Scales in the Northeast German Lowland Observatory (TERENO-NE). <i>Vadose Zone Journal</i> , 2018, 17, 1-25.	2.2	29
26	Tree-, stand- and site-specific controls on landscape-scale patterns of transpiration. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 13-30.	4.9	32
27	Why and when it is useful to publish and share inconclusive results and failures: reply to “Reporting negative results to stimulate experimental hydrology”. <i>Hydrological Sciences Journal</i> , 2018, 63, 1273-1274.	2.6	0
28	Incentives for field hydrology and data sharing: collaboration and compensation: reply to “A need for incentivizing field hydrology, especially in an era of open data”. <i>Hydrological Sciences Journal</i> , 2018, 63, 1266-1268.	2.6	8
29	Form and function in hillslope hydrology: characterization of subsurface flow based on response observations. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3727-3748.	4.9	47
30	Form and function in hillslope hydrology: in situ imaging and characterization of flow-relevant structures. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3749-3775.	4.9	39
31	Identifying, characterizing and predicting spatial patterns of lacustrine groundwater discharge. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5043-5063.	4.9	14
32	Dominant controls of transpiration along a hillslope transect inferred from ecohydrological measurements and thermodynamic limits. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2063-2083.	4.9	33
33	Use of cosmic-ray neutron sensors for soil moisture monitoring in forests. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1269-1288.	4.9	58
34	Travel times in the vadose zone: Variability in space and time. <i>Water Resources Research</i> , 2016, 52, 5727-5754.	4.2	103
35	Stream solute tracer timescales changing with discharge and reach length confound process interpretation. <i>Water Resources Research</i> , 2016, 52, 3227-3245.	4.2	37
36	Monitoring Snow Depth by GNSS Reflectometry in Built-up Areas: A Case Study for Wettzell, Germany. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 4809-4816.	4.9	26

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37	Long-term soil moisture dynamics derived from GNSS interferometric reflectometry: a case study for Sutherland, South Africa. <i>GPS Solutions</i> , 2016, 20, 641-654.	4.3	49
38	Estimating flow and transport parameters in the unsaturated zone with pore water stable isotopes. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2617-2635.	4.9	79
39	From hillslope to stream: methods to investigate subsurface connectivity. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 177-198.	6.5	72
40	Impact of modellers' decisions on hydrological a priori predictions. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2065-2085.	4.9	25
41	HESS Opinions: From response units to functional units: a thermodynamic reinterpretation of the HRU concept to link spatial organization and functioning of intermediate scale catchments. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4635-4655.	4.9	78
42	The value of satellite-derived snow cover images for calibrating a hydrological model in snow-dominated catchments in Central Asia. <i>Water Resources Research</i> , 2014, 50, 2002-2021.	4.2	77
43	A decade of Predictions in Ungauged Basins (PUB) – a review. <i>Hydrological Sciences Journal</i> , 2013, 58, 1198-1255.	2.6	821
44	Impact of seasonal variability and monitoring mode on the adequacy of fiber-optic distributed temperature sensing at aquifer-river interfaces. <i>Water Resources Research</i> , 2013, 49, 2408-2423.	4.2	26
45	A thermodynamic approach to link self-organization, preferential flow and rainfall-runoff behaviour. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4297-4322.	4.9	46
46	Upscaling lacustrine groundwater discharge rates by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , 2013, 49, 7929-7944.	4.2	50
47	Investigating patterns and controls of groundwater up-welling in a lowland river by combining Fibre-optic Distributed Temperature Sensing with observations of vertical hydraulic gradients. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1775-1792.	4.9	88
48	A comparative analysis of the effectiveness of flood management measures based on the concept of 'retaining water in the landscape' in different European hydro-climatic regions. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3287-3306.	3.6	66
49	Predicting event response in a nested catchment with generalized linear models and a distributed watershed model. <i>Hydrological Processes</i> , 2012, 26, 3749-3769.	2.6	34
50	Relación de la variación del almacenamiento de agua local y el gravímetro superconductor en el Observatorio Geodésico TIGO, Concepción, Chile. <i>Obras Y Proyectos</i> , 2012, , 71-78.	0.2	2
51	Interstitial pore-water temperature dynamics across a pool-riffle-pool sequence. <i>Ecohydrology</i> , 2011, 4, 549-563.	2.4	36
52	The principle of 'maximum energy dissipation': a novel thermodynamic perspective on rapid water flow in connected soil structures. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1377-1386.	4.0	82
53	Investigation of runoff generation in a pristine, poorly gauged catchment in the Chilean Andes II: Qualitative and quantitative use of tracers at three spatial scales. <i>Hydrological Processes</i> , 2008, 22, 3676-3688.	2.6	53
54	Investigation of runoff generation in a pristine, poorly gauged catchment in the Chilean Andes I: A multi-method experimental study. <i>Hydrological Processes</i> , 2008, 22, 3661-3675.	2.6	43

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55	Rainfallâ€”runoff response, event-based runoff coefficients and hydrograph separation. Hydrological Sciences Journal, 2007, 52, 843-862.	2.6	202
56	On the critical salt concentrations for particle detachment in homogeneous sand and heterogeneous Hanford sediments. Geoderma, 2005, 124, 121-132.	5.1	30
57	Permeability Changes in Layered Sediments: Impact of Particle Release. Ground Water, 2002, 40, 466-474.	1.3	36
58	The role of experimental work in hydrological sciences â€” insights from a community survey. Hydrological Sciences Journal, 0, , 1-4.	2.6	25