Britta Schmalz

List of Publications by Year
in descending order

42 papers	1,285 citations	430442 18 h-index	360668 35 g-index
45 all docs	45 docs citations	45 times ranked	1526 citing authors

#	Article	IF	Citations
1	The impact of agricultural Best Management Practices on water quality in a North German lowland catchment. Environmental Monitoring and Assessment, 2011, 183, 351-379.	1.3	136
2	Modelling point and diffuse source pollution of nitrate in a rural lowland catchment using the SWAT model. Agricultural Water Management, 2010, 97, 317-325.	2.4	118
3	Development and testing of a phytoplankton index of biotic integrity (P-IBI) for a German lowland river. Ecological Indicators, 2012, 13, 158-167.	2.6	89
4	Distribution of phytoplankton in a German lowland river in relation to environmental factors. Journal of Plankton Research, 2011, 33, 807-820.	0.8	83
5	Incorporating landscape depressions and tile drainages of a northern German lowland catchment into a semiâ€distributed model. Hydrological Processes, 2010, 24, 1472-1486.	1.1	71
6	Integrating catchment properties in small scale species distribution models of stream macroinvertebrates. Ecological Modelling, 2014, 277, 77-86.	1.2	70
7	An attack on two fronts: predicting how changes in land use and climate affect the distribution of stream macroinvertebrates. Freshwater Biology, 2015, 60, 1443-1458.	1.2	66
8	Water-related ecosystem services in Western Siberian lowland basinsâ€"Analysing and mapping spatial and seasonal effects on regulating services based on ecohydrological modelling results. Ecological Indicators, 2016, 71, 55-65.	2.6	56
9	Modelling of riverine ecosystems by integrating models: conceptual approach, a case study and research agenda. Journal of Biogeography, 2012, 39, 2253-2263.	1.4	52
10	Evaluation of Land Use, Land Management and Soil Conservation Strategies to Reduce Non-Point Source Pollution Loads in the Three Gorges Region, China. Environmental Management, 2016, 58, 906-921.	1.2	52
11	Analyses of soil water content variations and GPR attribute distributions. Journal of Hydrology, 2002, 267, 217-226.	2.3	49
12	Modelling hydrological processes in mesoscale lowland river basins with SWATâ€"capabilities and challenges. Hydrological Sciences Journal, 2008, 53, 989-1000.	1.2	46
13	Flood hazard analysis in small catchments: Comparison of hydrological and hydrodynamic approaches by the use of direct rainfall. Journal of Flood Risk Management, 2020, 13, e12639.	1.6	45
14	Assessing the spatial and temporal variations of water quality in lowland areas, Northern Germany. Journal of Hydrology, 2012, 438-439, 137-147.	2.3	44
15	Modeling daily chlorophyll a dynamics in a German lowland river using artificial neural networks and multiple linear regression approaches. Limnology, 2014, 15, 47-56.	0.8	38
16	Impacts of land use changes on hydrological components and macroinvertebrate distributions in the Poyang lake area. Ecohydrology, 2015, 8, 1119-1136.	1.1	31
17	Application of a hydrological-hydraulic modelling cascade in lowlands for investigating water and sediment fluxes in catchment, channel and reach. Journal of Hydrology and Hydromechanics, 2013, 61, 334-346.	0.7	28
18	Comparison of Baseflow Separation Methods in the German Low Mountain Range. Water (Switzerland), 2020, 12, 1740.	1.2	20

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19	Simulation and comparison of stream power in-channel and on the floodplain in a German lowland area. Journal of Hydrology and Hydromechanics, 2014, 62, 133-144.	0.7	16
20	A Systematic Analysis of the Interaction between Rain-on-Grid-Simulations and Spatial Resolution in 2D Hydrodynamic Modeling. Water (Switzerland), 2021, 13, 2346.	1.2	16
21	Field data-based implementation of land management and terraces on the catchment scale for an eco-hydrological modelling approach in the Three Gorges Region, China. Agricultural Water Management, 2016, 175, 43-60.	2.4	15
22	Seasonality of Roughness - the Indicator of Annual River Flow Resistance Condition in a Lowland Catchment. Water Resources Management, 2017, 31, 3299-3312.	1.9	15
23	ANALYSIS OF UNSATURATED WATER FLOW IN A LARGE SAND TANK. Soil Science, 2003, 168, 3-14.	0.9	12
24	A new model linking macroinvertebrate assemblages to habitat composition in rivers: development, sensitivity and univariate application. Fundamental and Applied Limnology, 2015, 186, 117-133.	0.4	12
25	Impact of Land Use on Stream Water Quality in the German Low Mountain Range Basin Gersprenz. Landscape Online, 0, 72, 1-17.	0.0	12
26	Variability of water quality in a riparian wetland with interacting shallow groundwater and surface water. Journal of Plant Nutrition and Soil Science, 2009, 172, 757-768.	1.1	11
27	A comparison of phytoplankton assemblages generated by two sampling protocols in a German lowland catchment. Annales De Limnologie, 2011, 47, 313-323.	0.6	11
28	Accuracy, reproducibility and sensitivity of acoustic Doppler technology for velocity and discharge measurements in medium-sized rivers. Hydrological Sciences Journal, 2012, 57, 1626-1641.	1.2	10
29	Low Flow and Drought in a German Low Mountain Range Basin. Water (Switzerland), 2021, 13, 316.	1.2	10
30	Simulation, quantification and comparison of in-channel and floodplain sediment processes in a lowland area â€" A case study of the Upper StÃ¶r catchment in northern Germany. Ecological Indicators, 2015, 57, 118-127.	2.6	9
31	Modelling spatial distribution of surface runoff and sediment yield in a Chinese river basin without continuous sediment monitoring. Hydrological Sciences Journal, 0, , 1-24.	1.2	7
32	Projected changes in climate and hydrological regimes of the Western Siberian lowlands. Environmental Earth Sciences, 2019, 78, 1.	1.3	6
33	Application of modified Manning formula in the determination of vertical profile velocity in natural rivers. Hydrology Research, 2017, 48, 133-146.	1.1	5
34	Deriving the Main Cultivation Direction from Open Remote Sensing Data to Determine the Support Practice Measure Contouring. Land, 2021, 10, 1279.	1.2	5
35	Assessment of wavelet-SVR and wavelet-GP models in predicting the groundwater level using areal precipitation and consumption data. Hydrological Sciences Journal, 2022, 67, 1026-1039.	1.2	4
36	Improved structure of vertical flow velocity distribution in natural rivers based on mean vertical profile velocity and relative water depth. Hydrology Research, 2018, 49, 878-892.	1.1	2

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37	Assessing effects of land use and land cover changes on hydrological processes and sediment yield in the Xunwu River watershed, Jiangxi Province, China. Frontiers of Earth Science, 2022, 16, 819-833.	0.9	2
38	Water-Related Ecosystem Services â€" The Case Study of Regulating Ecosystem Services in the Kielstau Basin, Germany. , 2015, , 215-232.		1
39	Modelling of hydrological processes in snowmelt-governed permafrost-free catchments of the Western Siberian Lowlands. International Journal of Hydrology Science and Technology, 2018, 1, 1.	0.2	1
40	Preface: Innovative monitoring techniques and modelling approaches for analysing hydrological processes in small basins. Advances in Geosciences, 0, 48, 49-51.	12.0	1
41	Temporal variability of nitrogen and phosphorus concentrations in a German catchment: water sampling implication. Revista Brasileira De Engenharia Agricola E Ambiental, 2014, 18, 811-818.	0.4	0
42	Modelling of hydrological processes in snowmelt-governed permafrost-free catchments of the Western Siberian lowlands. International Journal of Hydrology Science and Technology, 2018, 8, 289.	0.2	0