Lutz Breuer

List of Publications by Year
in descending order

184 papers	6,993 citations	53660 45 h-index	85405 71 g-index
228 all docs	228 docs citations	228 times ranked	8577 citing authors

#	Article	IF	Citations
1	Urbanisation process generates more independently-acting stressors and ecosystem functioning impairment in tropical Andean streams. Journal of Environmental Management, 2022, 304, 114211.	3.8	10
2	Carbon accounting in European agroforestry systems â€“ Key research gaps and data needs. Current Research in Environmental Sustainability, 2022, 4, 100134.	1.7	6
3	Multi-model evaluation of catchment- and global-scale hydrological model simulations of drought characteristics across eight large river catchments. Advances in Water Resources, 2022, 165, 104212.	1.7	5
4	Focus of the IPCC Assessment Reports Has Shifted to Lower Temperatures. Earth's Future, 2022, 10, .	2.4	11
5	Modification of the microclimate and water balance through the integration of trees into temperate cropping systems. Agricultural and Forest Meteorology, 2022, 323, 109065.	1.9	13
6	A field, laboratory, and literature review evaluation of the water retention curve of volcanic ash soils: How well do standard laboratory methods reflect field conditions?. Hydrological Processes, 2021, 35, e14011.	1.1	7
7	A National Nitrogen Target for Germany. Sustainability, 2021, 13, 1121.	1.6	4
8	Variability in tree water uptake determined with stable water isotopes in an African tropical montane forest. Ecohydrology, 2021, 14, e2278.	1.1	5
9	Simple Catchments and Where to Find Them: The Storage-Discharge Relationship as a Proxy for Catchment Complexity. Frontiers in Water, 2021, 3, .	1.0	4
10	Explainable AI Framework for Multivariate Hydrochemical Time Series. Machine Learning and Knowledge Extraction, 2021, 3, 170-204.	3.2	16
11	Particulate macronutrient exports from tropical African montane catchments point to the impoverishment of agricultural soils. Soil, 2021, 7, 53-70.	2.2	3
12	Assessment of multiple stable isotopes for tracking regional and organic authenticity of plant products in Hesse, Germany. Isotopes in Environmental and Health Studies, 2021, 57, 1-20.	0.5	11
13	Application of Machine Learning Models to Predict Maximum Event Water Fractions in Streamflow. Frontiers in Water, 2021, 3, .	1.0	12
14	Monitoring of Suspended Sediments in a Tropical Forested Landscape With Citizen Science. Frontiers in Water, 2021, 3, .	1.0	3
15	Calculation of a food consumption nitrogen footprint for Germany. Environmental Research Letters, 2021, 16, 075005.	2.2	9
16	Detection of hidden model errors by combining single and multi-criteria calibration. Science of the Total Environment, 2021, 777, 146218.	3.9	4
17	Betting on the best case: higher end warming is underrepresented in research. Environmental Research Letters, 2021, 16, 084036.	2.2	7
18	Storage-Discharge Relationships under Forest Cover Change in Ethiopian Highlands. Water (Switzerland), 2021, 13, 2310.	1.2	0

#	Article	IF	Citations
19	The Role of Small Woody Landscape Features and Agroforestry Systems for National Carbon Budgeting in Germany. Land, 2021, 10, 1028.	1.2	12
20	Deep Learning for Isotope Hydrology: The Application of Long Short-Term Memory to Estimate High Temporal Resolution of the Stable Isotope Concentrations in Stream and Groundwater. Frontiers in Water, 2021, 3, .	1.0	3
21	National nitrogen budget for Germany. Environmental Research Communications, 2021, 3, 095004.	0.9	4
22	Crowdsourced Water Level Monitoring in Kenyaâ€™s Sondu-Miriu Basinâ€"Who Is â€œThe Crowdâ€?. Frontiers in Earth Science, 2021, 8, .	0.8	2
23	A research framework for projecting ecosystem change in highly diverse tropical mountain ecosystems. Oecologia, 2021, 195, 589-600.	0.9	12
24	Modelling Agroforestryâ€™s Contributions to Peopleâ€"A Review of Available Models. Agronomy, 2021, 11, 2106.	1.3	16
25	Economic and environmental impact assessment of sustainable future irrigation practices in the Indus Basin of Pakistan. Scientific Reports, 2021, 11, 23466.	1.6	8
26	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.	1.3	11
27	Changing climate - Changing livelihood: Smallholder's perceptions and adaption strategies. Journal of Environmental Management, 2020, 259, 109702.	3.8	35
28	Spatial Distribution of Integrated Nitrate Reduction across the Unsaturated Zone and the Groundwater Body in Germany. Water (Switzerland), 2020, 12, 2456.	1.2	12
29	Tropical Montane Forest Conversion Is a Critical Driver for Sediment Supply in East African Catchments. Water Resources Research, 2020, 56, e2020WR027495.	1.7	11
30	Nation-wide estimation of groundwater redox conditions and nitrate concentrations through machine learning. Environmental Research Letters, 2020, 15, 064004.	2.2	52
31	Sampling soil water along the <scp>pF</scp> curve for <scp>Î´²H</scp> and <scp>Î´¹⁸O</scp> analysis. Hydrological Processes, 2020, 34, 4959-4972.	1.1	16
32	Agricultural land is the main source of stream sediments after conversion of an African montane forest. Scientific Reports, 2020, 10, 14827.	1.6	21
33	Projection of Droughts as Multivariate Phenomenon in the Rhine River. Water (Switzerland), 2020, 12, 2288.	1.2	1
34	Water Resources Management Strategies for Irrigated Agriculture in the Indus Basin of Pakistan. Water (Switzerland), 2020, 12, 1429.	1.2	29
35	Using hydrological and climatic catchment clusters to explore drivers of catchment behavior. Hydrology and Earth System Sciences, 2020, 24, 1081-1100.	1.9	46
36	Water transport and tracer mixing in volcanic ash soils at a tropical hillslope: A wet layered sloping sponge. Hydrological Processes, 2020, 34, 2032-2047.	1.1	21

#	Article	IF	Citations
37	High-Resolution, In Situ Monitoring of Stable Isotopes of Water Revealed Insight into Hydrological Response Behavior. Water (Switzerland), 2020, 12, 565.	1.2	11
38	Analysis of future changes in meteorological drought patterns in Fulda, Germany. International Journal of Climatology, 2020, 40, 5515-5526.	1.5	3
39	Leaching of dissolved and particulate phosphorus <i>via</i> preferential flow pathways in a forest soil: An approach using zeroâ€tension lysimeters. Journal of Plant Nutrition and Soil Science, 2020, 183, 238-247.	1.1	11
40	Diurnal Patterns in Solute Concentrations Measured with In Situ UV-Vis Sensors: Natural Fluctuations or Artefacts?. Sensors, 2020, 20, 859.	2.1	5
41	Accounting for multiple ecosystem services in a simulation of landâ€use decisions: Does it reduce tropical deforestation?. Global Change Biology, 2020, 26, 2403-2420.	4.2	37
42	Review of soil phosphorus routines in ecosystem models. Environmental Modelling and Software, 2020, 126, 104639.	1.9	8
43	Assessment of potential implications of agricultural irrigation policy on surface water scarcity in Brazil. Hydrology and Earth System Sciences, 2020, 24, 307-324.	1.9	22
44	Nitrogen soil surface budgets for districts in Germany 1995 to 2017. Environmental Sciences Europe, 2020, 32, .	2.6	21
45	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.	1.9	15
46	Citizen science in hydrological monitoring and ecosystem services management: State of the art and future prospects. Science of the Total Environment, 2019, 693, 133531.	3.9	94
47	Trade-offs between parameter constraints and model realism: a case study. Scientific Reports, 2019, 9, 10729.	1.6	14
48	Modelling of rare flood meadow species distribution by a combined habitat surface waterâ€“groundwater model. Ecohydrology, 2019, 12, e2122.	1.1	6
49	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.	4.2	22
50	Large scale prediction of groundwater nitrate concentrations from spatial data using machine learning. Science of the Total Environment, 2019, 668, 1317-1327.	3.9	146
51	Moisture transport and seasonal variations in the stable isotopic composition of rainfall in <scp>Central American</scp> and <scp>Andean PÃ¡ramo</scp> during <scp>El NiÃ±o</scp> conditions (2015â€“2016). Hydrological Processes, 2019, 33, 1802-1817.	1.1	48
52	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	5.8	168
53	Rainfallâ€Runoff Modeling Using Crowdsourced Water Level Data. Water Resources Research, 2019, 55, 10856-10871.	1.7	12
54	The use of agri-environmental measures to address environmental pressures in Germany: Spatial mismatches and options for improvement. Land Use Policy, 2019, 84, 347-362.	2.5	36

#	Article	IF	Citations
55	Recent insights on uncertainties present in integrated catchment water quality modelling. Water Research, 2019, 150, 368-379.	5.3	54
56	Is observation uncertainty masking the signal of land use change impacts on hydrology?. Journal of Hydrology, 2019, 570, 393-400.	2.3	8
57	Detection of artificial sweeteners and iodinated X-ray contrast media in wastewater via LC-MS/MS and their potential use as anthropogenic tracers in flowing waters. Chemosphere, 2019, 218, 189-196.	4.2	16
58	Spatially distributed hydro-chemical data with temporally high-resolution is needed to adequately assess the hydrological functioning of headwater catchments. Science of the Total Environment, 2019, 651, 1613-1626.	3.9	33
59	A simple greenhouse experiment to explore the effect of cryogenic water extraction for tracing plant source water. Ecohydrology, 2018, 11, e1967.	1.1	23
60	Using Highâ€Resolution Data to Assess Land Use Impact on Nitrate Dynamics in East African Tropical Montane Catchments. Water Resources Research, 2018, 54, 1812-1830.	1.7	27
61	Citizen science pioneers in Kenya â€“ A crowdsourced approach for hydrological monitoring. Science of the Total Environment, 2018, 631-632, 1590-1599.	3.9	65
62	Spatial correlation of agri-environmental measures with high levels of ecosystem services. Ecological Indicators, 2018, 84, 364-370.	2.6	22
63	Conversion of natural forest results in a significant degradation of soil hydraulic properties in the highlands of Kenya. Soil and Tillage Research, 2018, 176, 36-44.	2.6	41
64	Sources of uncertainty in hydrological climate impact assessment: a cross-scale study. Environmental Research Letters, 2018, 13, 015006.	2.2	109
65	Land-use effects on structural and functional composition of benthic and leaf-associated macroinvertebrates in four Andean streams. Aquatic Ecology, 2018, 52, 77-92.	0.7	23
66	Closing the N-Budget: How Simulated Groundwater-Borne Nitrate Supply Affects Plant Growth and Greenhouse Gas Emissions on Temperate Grassland. Atmosphere, 2018, 9, 407.	1.0	5
67	High-Frequency Water Isotopic Analysis Using an Automatic Water Sampling System in Rice-Based Cropping Systems. Water (Switzerland), 2018, 10, 1327.	1.2	9
68	Incremental model breakdown to assess the multi-hypotheses problem. Hydrology and Earth System Sciences, 2018, 22, 4565-4581.	1.9	4
69	Climate Vulnerability in Rainfed Farming: Analysis from Indian Watersheds. Sustainability, 2018, 10, 3357.	1.6	32
70	Assessment of hydrological pathways in East African montane catchments under different land use. Hydrology and Earth System Sciences, 2018, 22, 4981-5000.	1.9	30
71	Inter-laboratory comparison of cryogenic water extraction systems for stable isotope analysis of soil water. Hydrology and Earth System Sciences, 2018, 22, 3619-3637.	1.9	92
72	Quantification of plant water uptake by water stable isotopes in rice paddy systems. Plant and Soil, 2018, 429, 281-302.	1.8	28

#	Article	IF	Citations
73	Effect of land cover and hydroâ€meteorological controls on soil water DOC concentrations in a highâ€elevation tropical environment. Hydrological Processes, 2018, 32, 2624-2635.	1.1	28
74	Effects of Input Data Content on the Uncertainty of Simulating Water Resources. Water (Switzerland), 2018, 10, 621.	1.2	14
75	Multi-Source Uncertainty Analysis in Simulating Floodplain Inundation under Climate Change. Water (Switzerland), 2018, 10, 809.	1.2	3
76	Sensitivity analysis of a climate vulnerability index - a case study from Indian watershed development programmes. Climate Change Responses, 2018, 5, .	2.6	22
77	Water-saving strategies for irrigation agriculture in Saudi Arabia. International Journal of Water Resources Development, 2017, 33, 292-309.	1.2	11
78	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.	1.9	17
79	Multicriteria assessment of water dynamics reveals subcatchment variability in a seemingly homogeneous tropical cloud forest catchment. Hydrological Processes, 2017, 31, 1456-1468.	1.1	3
80	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.	1.9	17
81	Land use affects total dissolved nitrogen and nitrate concentrations in tropical montane streams in Kenya. Science of the Total Environment, 2017, 603-604, 519-532.	3.9	56
82	Response to commentary on â€˜Current economic obstacles to biochar use in agriculture and climate change mitigationâ€™. Carbon Management, 2017, 8, 219-221.	1.2	1
83	Rejecting hydro-biogeochemical model structures by multi-criteria evaluation. Environmental Modelling and Software, 2017, 93, 1-12.	1.9	19
84	Climate change impacts on runoff in the Ferghana Valley (Central Asia). Water Resources, 2017, 44, 707-730.	0.3	23
85	Prediction and uncertainty analysis of a parsimonious floodplain surface waterâ€groundwater interaction model. Water Resources Research, 2017, 53, 7678-7695.	1.7	8
86	Temporal dynamics in dominant runoff sources and flow paths in the <scp>A</scp>ndean <scp>P</scp>Ã¡ramo. Water Resources Research, 2017, 53, 5998-6017.	1.7	49
87	Improving irrigation efficiency will be insufficient to meet future water demand in the Nile Basin. Journal of Hydrology: Regional Studies, 2017, 12, 315-330.	1.0	25
88	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.	1.7	4
89	A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1ÂÂ°C, 2ÂÂ°C and 3ÂÂ°C. Climatic Change, 2017, 141, 577-595.	1.7	104
90	Propagation of forcing and model uncertainties on to hydrological drought characteristics in a multi-model century-long experiment in large river basins. Climatic Change, 2017, 141, 435-449.	1.7	57

#	Article	IF	Citations
91	A practical planning software program for desalination in agriculture - SPARE:WATERopt. Desalination, 2017, 404, 121-131.	4.0	16
92	Constraining a complex biogeochemical model for CO₂ and N₂O emission simulations from various land uses by modelâ€“data fusion. Biogeosciences, 2017, 14, 3487-3508.	1.3	16
93	Insights into the water mean transit time in a high-elevation tropical ecosystem. Hydrology and Earth System Sciences, 2016, 20, 2987-3004.	1.9	48
94	Regional Patterns of Ecosystem Services in Cultural Landscapes. Land, 2016, 5, 17.	1.2	20
95	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.	1.9	33
96	Shifts in leaf litter breakdown along a forestâ€“pastureâ€“urban gradient in Andean streams. Ecology and Evolution, 2016, 6, 4849-4865.	0.8	32
97	Knowledge discovery from high-frequency stream nitrate concentrations: hydrology and biology contributions. Scientific Reports, 2016, 6, 31536.	1.6	16
98	Groundwater recharge rates and surface runoff response to land use and land cover changes in semi-arid environments. Ecological Processes, 2016, 5, .	1.6	107
99	Critical issues with cryogenic extraction of soil water for stable isotope analysis. Ecohydrology, 2016, 9, 1-5.	1.1	127
100	Comparing molecular composition of dissolved organic matter in soil and stream water: Influence of land use and chemical characteristics. Science of the Total Environment, 2016, 571, 142-152.	3.9	79
101	Continuous <i>versus</i> eventâ€based sampling: how many samples are required for deriving general hydrological understanding on Ecuador's pÃ¡ramo region?. Hydrological Processes, 2016, 30, 4059-4073.	1.1	25
102	Current economic obstacles to biochar use in agriculture and climate change mitigation. Carbon Management, 2016, 7, 183-190.	1.2	39
103	Compositional diversity of rehabilitated tropical lands supports multiple ecosystem services and buffers uncertainties. Nature Communications, 2016, 7, 11877.	5.8	77
104	A hotspot analysis of water footprints and groundwater decline in the High Plains aquifer region, USA. Regional Environmental Change, 2016, 16, 2419-2428.	1.4	16
105	New Seasonal Shift in In-Stream Diurnal Nitrate Cycles Identified by Mining High-Frequency Data. PLoS ONE, 2016, 11, e0153138.	1.1	28
106	Uncertainty Analysis of a Coupled Hydrological-plant Growth Model for Grassland under Elevated CO2. Procedia Environmental Sciences, 2015, 29, 79-80.	1.3	0
107	HydroCrowd: a citizen science snapshot to assess the spatial control of nitrogen solutes in surface waters. Scientific Reports, 2015, 5, 16503.	1.6	33
108	Catchment-Scale Modeling of Nitrogen Dynamics in a Temperate Forested Watershed, Oregon. An Interdisciplinary Communication Strategy. Water (Switzerland), 2015, 7, 5345-5377.	1.2	1

#	Article	IF	Citations
109	SPOTting Model Parameters Using a Ready-Made Python Package. PLoS ONE, 2015, 10, e0145180.	1.1	118
110	Sampling frequency trade-offs in the assessment of mean transit times of tropical montane catchment waters under semi-steady-state conditions. Hydrology and Earth System Sciences, 2015, 19, 1153-1168.	1.9	17
111	Reduction of predictive uncertainty in estimating irrigation water requirement through multi-model ensembles and ensemble averaging. Geoscientific Model Development, 2015, 8, 1233-1244.	1.3	17
112	Relevance of nonfunctional linear polyacrylic acid for the biodegradation of superabsorbent polymer in soils. Environmental Science and Pollution Research, 2015, 22, 5444-5452.	2.7	18
113	Effects of Short Term Bioturbation by Common Voles on Biogeochemical Soil Variables. PLoS ONE, 2015, 10, e0126011.	1.1	16
114	Simulation of Land Management Effects on Soil N2O Emissions Using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. , 2015, , 2207-2231.		0
115	Deforestation and Benthic Indicators: How Much Vegetation Cover Is Needed to Sustain Healthy Andean Streams?. PLoS ONE, 2014, 9, e105869.	1.1	50
116	Linking Spatial Patterns of Groundwater Table Dynamics and Streamflow Generation Processes in a Small Developed Catchment. Water (Switzerland), 2014, 6, 3085-3117.	1.2	21
117	Simulating Water Resource Availability under Data Scarcityâ€"A Case Study for the Ferghana Valley (Central Asia). Water (Switzerland), 2014, 6, 3270-3299.	1.2	8
118	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.	1.9	33
119	Monte Carlo-based calibration and uncertainty analysis of a coupled plant growth and hydrological model. Biogeosciences, 2014, 11, 2069-2082.	1.3	42
120	Afforestation or intense pasturing improve the ecological and economic value of abandoned tropical farmlands. Nature Communications, 2014, 5, 5612.	5.8	89
121	Set Up of an Automatic Water Quality Sampling System in Irrigation Agriculture. Sensors, 2014, 14, 212-228.	2.1	20
122	Biodegradation measurements confirm the predictive value of the O:Câ€ratio for biochar recalcitrance. Journal of Plant Nutrition and Soil Science, 2014, 177, 633-637.	1.1	13
123	Addressing sources of uncertainty in runoff projections for a data scarce catchment in the Ecuadorian Andes. Climatic Change, 2014, 125, 221-235.	1.7	18
124	Biodegradability of a polyacrylate superabsorbent in agricultural soil. Environmental Science and Pollution Research, 2014, 21, 9453-9460.	2.7	93
125	An institutional analysis of EPD programs and a global PCR registry. International Journal of Life Cycle Assessment, 2014, 19, 786-795.	2.2	36
126	Understanding uncertainties when inferring mean transit times of water trough tracer-based lumped-parameter models in Andean tropical montane cloud forest catchments. Hydrology and Earth System Sciences, 2014, 18, 1503-1523.	1.9	51

#	Article	IF	Citations
127	LandscapeDNDC: a process model for simulation of biosphereâ€“atmosphereâ€“hydrosphere exchange processes at site and regional scale. Landscape Ecology, 2013, 28, 615-636.	1.9	126
128	Degradation kinetics of biochar from pyrolysis and hydrothermal carbonization in temperate soils. Plant and Soil, 2013, 372, 375-387.	1.8	60
129	Land use and climate control the spatial distribution of soil types in the grasslands of Inner Mongolia. Journal of Arid Environments, 2013, 88, 194-205.	1.2	66
130	Using multi-model averaging to improve the reliability of catchment scale nitrogen predictions. Geoscientific Model Development, 2013, 6, 117-125.	1.3	18
131	Uncertainty assessment of quantifying spatially concentrated groundwater discharge to small streams by distributed temperature sensing. Water Resources Research, 2013, 49, 400-407.	1.7	17
132	A Site-sPecific Agricultural water Requirement and footprint Estimator (SPARE:WATER 1.0). Geoscientific Model Development, 2013, 6, 1043-1059.	1.3	18
133	Impact of elevation and weather patterns on the isotopic composition of precipitation in a tropical montane rainforest. Hydrology and Earth System Sciences, 2013, 17, 409-419.	1.9	86
134	Supporting, Regulating, and Provisioning Hydrological Services. Ecological Studies, 2013, , 107-116.	0.4	6
135	Validation and application of a cryogenic vacuum extraction system for soil and plant water extraction for isotope analysis. Journal of Sensors and Sensor Systems, 2013, 2, 179-193.	0.6	140
136	Spatial distribution of soils determines export of nitrogen and dissolved organic carbon from an intensively managed agricultural landscape. Biogeosciences, 2012, 9, 4513-4525.	1.3	25
137	Model intercomparison to explore catchment functioning: Results from a remote montane tropical rainforest. Ecological Modelling, 2012, 239, 3-13.	1.2	42
138	Preliminary evaluation of the runoff processes in a remote montane cloud forest basin using Mixing Model Analysis and Mean Transit Time. Hydrological Processes, 2012, 26, 3896-3910.	1.1	32
139	Probabilistic multi-model ensemble predictions of nitrogen concentrations in river systems. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	6
140	How many tracers do we need for end member mixing analysis (EMMA)? A sensitivity analysis. Water Resources Research, 2011, 47, .	1.7	115
141	Nitrogen processes in aquatic ecosystems. , 2011, , 126-146.		46
142	Solute behaviour and export rates in neotropical montane catchments under different land-uses. Journal of Tropical Ecology, 2011, 27, 305-317.	0.5	23
143	Identifying controls of the rainfallâ€“runoff response of small catchments in the tropical Andes (Ecuador). Journal of Hydrology, 2011, 407, 164-174.	2.3	90
144	Spatial and temporal variation of soil moisture in dependence of multiple environmental parameters in semi-arid grasslands. Plant and Soil, 2011, 340, 73-88.	1.8	14

#	Article	IF	Citations
145	Biodegradability screening of soil amendments through coupling of wavelengthâ€scanned cavity ringâ€down spectroscopy to multiple dynamic chambers. Rapid Communications in Mass Spectrometry, 2011, 25, 3683-3689.	0.7	16
146	CMF: A Hydrological Programming Language Extension For Integrated Catchment Models. Environmental Modelling and Software, 2011, 26, 828-830.	1.9	73
147	Identifying Controls on Water Chemistry of Tropical Cloud Forest Catchments: Combining Descriptive Approaches and Multivariate Analysis. Aquatic Geochemistry, 2010, 16, 127-149.	1.5	23
148	Identification of geographic runoff sources in a data sparse region: hydrological processes and the limitations of tracerâ€based approaches. Hydrological Processes, 2010, 24, 2313-2327.	1.1	37
149	Ensemble modelling of nitrogen fluxes: data fusion for a Swedish meso-scale catchment. Hydrology and Earth System Sciences, 2010, 14, 2383-2397.	1.9	26
150	Evaluating Today's Landscape Multifunctionality and Providing an Alternative Future: A Normative Scenario Approach. Ecology and Society, 2010, 15, .	1.0	27
151	The influence of land-use on macroinvertebrate communities in montane tropical streams a case study from Ecuador. Fundamental and Applied Limnology, 2010, 177, 267-282.	0.4	22
152	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM). I: Model intercomparison with current land use. Advances in Water Resources, 2009, 32, 129-146.	1.7	177
153	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) IV: Model sensitivity to data aggregation and spatial (re-)distribution. Advances in Water Resources, 2009, 32, 171-192.	1.7	49
154	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) II: Ensemble combinations and predictions. Advances in Water Resources, 2009, 32, 147-158.	1.7	128
155	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM) III: Scenario analysis. Advances in Water Resources, 2009, 32, 159-170.	1.7	87
156	Spatial variability of topsoils and vegetation in a grazed steppe ecosystem in Inner Mongolia (PR) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.1	30
157	Spatially explicit versus lumped models in catchment hydrology â€" experiences from two case studies. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 3-26.	0.1	4
158	Water source characterization through spatiotemporal patterns of major, minor and trace element stream concentrations in a complex, mesoscale German catchment. Hydrological Processes, 2008, 22, 2028-2043.	1.1	26
159	Temporal stability of soil moisture in various semi-arid steppe ecosystems and its application in remote sensing. Journal of Hydrology, 2008, 359, 16-29.	2.3	101
160	Inferring the effect of catchment complexity on mesoscale hydrologic response. Water Resources Research, 2008, 44, .	1.7	15
161	Ambiguous effects of grazing intensity on surface soil moisture: A geostatistical case study from a steppe environment in Inner Mongolia, PR China. Journal of Arid Environments, 2008, 72, 1305-1319.	1.2	18
162	Current concepts in nitrogen dynamics for mesoscale catchments. Hydrological Sciences Journal, 2008, 53, 1059-1074.	1.2	39

#	Article	IF	Citations
163	Assessing the model performance of an integrated hydrological and biogeochemical model for discharge and nitrate load predictions. Hydrology and Earth System Sciences, 2007, 11, 997-1011.	1.9	17
164	Integration of a detailed biogeochemical model into SWAT for improved nitrogen predictionsâ€"Model development, sensitivity, and GLUE analysis. Ecological Modelling, 2007, 203, 215-228.	1.2	55
165	Analysing the effects of soil properties changes associated with land use changes on the simulated water balance: A comparison of three hydrological catchment models for scenario analysis. Ecological Modelling, 2007, 209, 29-40.	1.2	85
166	Impact of a conversion from cropland to grassland on C and N storage and related soil properties: Analysis of a 60-year chronosequence. Geoderma, 2006, 133, 6-18.	2.3	80
167	Accuracy and congruency of three different digital land-use maps. Landscape and Urban Planning, 2006, 78, 289-299.	3.4	57
168	Environmental and ecological hydroinformatics to support the implementation of the European Water Framework Directive for river basin management. Journal of Hydroinformatics, 2006, 8, 239-252.	1.1	23
169	Monte Carlo assessment of uncertainty in the simulated hydrological response to land use change. Environmental Modeling and Assessment, 2006, 11, 209-218.	1.2	29
170	Local temperature optimum of N2O production rates in tropical rain forest soils of Australia. Soil Research, 2005, 43, 689.	0.6	13
171	Sensitivity of simulated hydrological fluxes towards changes in soil properties in response to land use change. Physics and Chemistry of the Earth, 2004, 29, 749-758.	1.2	32
172	Plant parameter values for models in temperate climates. Ecological Modelling, 2003, 169, 237-293.	1.2	307
173	Parameter uncertainty and the significance of simulated land use change effects. Journal of Hydrology, 2003, 273, 164-176.	2.3	134
174	Temperature and Moisture Effects on Nitrification Rates in Tropical Rainâ€Forest Soils. Soil Science Society of America Journal, 2002, 66, 834-844.	1.2	123
175	Interdisciplinary modeling and the significance of soil functions. Journal of Plant Nutrition and Soil Science, 2002, 165, 460.	1.1	20
176	Exchange of trace gases between soils and the atmosphere in Scots pine forest ecosystems of the northeastern German lowlands. Forest Ecology and Management, 2002, 167, 123-134.	1.4	107
177	N2O emission from tropical forest soils of Australia. Journal of Geophysical Research, 2000, 105, 26353-26367.	3.3	163
178	Title is missing!. Nutrient Cycling in Agroecosystems, 1997, 48, 79-90.	1.1	209
179	Evaluation of evapotranspiration methods for model validation in a semi-arid watershed in northern China. Advances in Geosciences, 0, 11, 37-42.	12.0	32
180	Gauging the ungauged basin: a top-down approach in a large semiarid watershed in China. Advances in Geosciences, 0, 18, 3-8.	12.0	8

#	Article	IF	Citations
181	Using Python as a coupling platform for integrated catchment models. Advances in Geosciences, 0, 27, 51-56.	12.0	11
182	Multi-model data fusion as a tool for PUB: example in a Swedish mesoscale catchment. Advances in Geosciences, 0, 29, 43-50.	12.0	5
183	Integrating heterogeneous landscape characteristics into watershed scale modelling. Advances in Geosciences, 0, 31, 31-38.	12.0	4
184	Modelling of point and non-point source pollution of nitrate with SWAT in the river Dill, Germany. Advances in Geosciences, 0, 5, 7-12.	12.0	26