Bernd DiekkrÃ¼ger

List of Publications by Year
in descending order

146 papers	4,553 citations	87888 38 h-index	144013 57 g-index
160 all docs	160 docs citations	160 times ranked	5444 citing authors

#	Article	IF	Citations
1	Modeling the Impact of Climate and Land Use/Land Cover Change on Water Availability in an Inland Valley Catchment in Burkina Faso. Hydrology, 2022, 9, 12.	3.0	15
2	Impact of Climate and Land Use/Land Cover Change on the Water Resources of a Tropical Inland Valley Catchment in Uganda, East Africa. Climate, 2020, 8, 83.	2.8	19
3	Testing the Robustness of a Physically-Based Hydrological Model in Two Data Limited Inland Valley Catchments in Dano, Burkina Faso. Hydrology, 2020, 7, 43.	3.0	5
4	Multitemporal optical and radar metrics for wetland mapping at national level in Albania. Heliyon, 2020, 6, e04496.	3.2	13
5	Managing New Risks of and Opportunities for the Agricultural Development of West-African Floodplains: Hydroclimatic Conditions and Implications for Rice Production. Climate, 2020, 8, 11.	2.8	4
6	Impact of Climate Change on Water Resources in the Kilombero Catchment in Tanzania. Water (Switzerland), 2019, 11, 859.	2.7	33
7	CO2 fluxes before and after partial deforestation of a Central European spruce forest. Agricultural and Forest Meteorology, 2019, 274, 61-74.	4.8	27
8	Validation of satellite soil moisture in the absence of <i>in situ</i> soil moisture: the case of the Tropical Yankin Basin. South African Journal of Geomatics, 2019, 7, 243.	0.4	3
9	IMPETUS: Implementing HELP in the Upper OuÃ©mÃ© basin. Water S A, 2019, 34, 481.	0.4	10
10	Niger discharge from radar altimetry: bridging gaps between gauge and altimetry time series. Hydrology and Earth System Sciences, 2019, 23, 4113-4128.	4.9	8
11	The Impact of Land Use/Land Cover Change (LULCC) on Water Resources in a Tropical Catchment in Tanzania under Different Climate Change Scenarios. Sustainability, 2019, 11, 7083.	3.2	64
12	Modeling the effect of land use and climate change on water resources and soil erosion in a tropical West African catch-ment (Dano, Burkina Faso) using SHETRAN. Science of the Total Environment, 2019, 653, 431-445.	8.0	55
13	Modelling the impact of land use management on water resources in a tropical inland valley catchment of central Uganda, East Africa. Science of the Total Environment, 2019, 653, 1052-1066.	8.0	18
14	Land use change increases flood hazard: a multi-modelling approach to assess change in flood characteristics driven by socio-economic land use change scenarios. Natural Hazards, 2019, 98, 1021-1050.	3.4	26
15	Health risk perceptions and local knowledge of water-related infectious disease exposure among Kenyan wetland communities. International Journal of Hygiene and Environmental Health, 2019, 222, 34-48.	4.3	40
16	Impact of the Accuracy of Land Cover Data sets on the Accuracy of Land Cover Change Scenarios in the Mono River Basin, Togo, West Africa. International Journal of Advanced Remote Sensing and GIS, 2019, 8, 3073-3095.	0.2	16
17	Determining hydrological regimes in an agriculturally used tropical inland valley wetland in Central Uganda using soil moisture, groundwater, and digital elevation data. Hydrological Processes, 2018, 32, 349-362.	2.6	20
18	Modeling the impact of climate change on water resources and soil erosion in a tropical catchment in Burkina Faso, West Africa. Catena, 2018, 163, 63-77.	5.0	40

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19	Land surface temperature trends as indicator of land use changes in wetlands. International Journal of Applied Earth Observation and Geoinformation, 2018, 70, 62-71.	2.8	58
20	Performance evaluation of reservoir-based irrigation schemes in the Upper East region of Ghana. Agricultural Water Management, 2018, 202, 134-145.	5.6	10
21	The WASCAL Hydrometeorological Observatory in the Sudan Savanna of Burkina Faso and Ghana. Vadose Zone Journal, 2018, 17, 1-20.	2.2	15
22	Computationally Efficient Multivariate Calibration and Validation of a Grid-Based Hydrologic Model in Sparsely Gauged West African River Basins. Water (Switzerland), 2018, 10, 1418.	2.7	23
23	Quantifying stand water use of a multi-species afforestation site through sap flow and groundwater measurements. Acta Horticulturae, 2018, , 119-124.	0.2	2
24	Using Sap Flow Data to Parameterize the Feddes Water Stress Model for Norway Spruce. Water (Switzerland), 2018, 10, 279.	2.7	17
25	Exploring the growth response of Norway spruce (Picea abies) along a small-scale gradient of soil water supply. Dendrochronologia, 2018, 52, 123-130.	2.2	14
26	Subsurface sources contribute substantially to fineâ€grained suspended sediment transported in a tropical <scp>W</scp>est <scp>A</scp>frican watershed in <scp>B</scp>urkina <scp>F</scp>aso. Land Degradation and Development, 2018, 29, 4092-4105.	3.9	7
27	Modelling blue and green water availability under climate change in the Beninese Basin of the Niger River Basin, West Africa. Hydrological Processes, 2018, 32, 2526-2542.	2.6	26
28	Multi-Objective Validation of SWAT for Sparsely-Gauged West African River Basinsâ€”A Remote Sensing Approach. Water (Switzerland), 2018, 10, 451.	2.7	30
29	Rice Intensification in a Changing Environment: Impact on Water Availability in Inland Valley Landscapes in Benin. Water (Switzerland), 2018, 10, 74.	2.7	15
30	Modeling Spatial Soil Water Dynamics in a Tropical Floodplain, East Africa. Water (Switzerland), 2018, 10, 191.	2.7	27
31	Hydrological Modeling in Data-Scarce Catchments: The Kilombero Floodplain in Tanzania. Water (Switzerland), 2018, 10, 599.	2.7	38
32	Year-Round Irrigation Schedule for a Tomatoâ€“Maize Rotation System in Reservoir-Based Irrigation Schemes in Ghana. Water (Switzerland), 2018, 10, 624.	2.7	7
33	Cosmic Ray Neutron Sensing for Simultaneous Soil Water Content and Biomass Quantification in Drought Conditions. Water Resources Research, 2018, 54, 7383-7402.	4.2	54
34	Assessing seasonal land cover dynamics in the tropical Kilombero floodplain of East Africa. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	8
35	Challenges in calibrating hydrological models to simultaneously evaluate water resources and flood hazard: a case study of Zou basin, Benin. Episodes, 2018, 41, 105-114.	1.2	1
36	Dry spell, onset and cessation of the wet season rainfall in the Upper Baro-Akobo Basin, Ethiopia. Theoretical and Applied Climatology, 2017, 129, 849-858.	2.8	18

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37	Evaluating the performance of remotely sensed and reanalysed precipitation data over West Africa using HBV light. Journal of Hydrology, 2017, 547, 222-235.	5.4	75
38	Improvement and comparative assessment of a hydrological modelling approach on 20 catchments of various sizes under different climate conditions. Hydrological Sciences Journal, 2017, 62, 1499-1516.	2.6	5
39	Modelling of flood hazard extent in data sparse areas: a case study of the Oti River basin, West Africa. Journal of Hydrology: Regional Studies, 2017, 10, 122-132.	2.4	80
40	Hydrological system analysis and modelling of the Kara River basin (West Africa) using a lumped metric conceptual model. Hydrological Sciences Journal, 2017, 62, 1094-1113.	2.6	7
41	Dynamics of surface runoff and soil loss from a toposequence under varied land use practices in Rwizi catchment, Lake Victoria Basin. Journal of Soils and Water Conservation, 2017, 72, 480-492.	1.6	5
42	Comparing water quantity and quality in three inland valley watersheds with different levels of agricultural development in central Benin. Agricultural Water Management, 2017, 192, 257-270.	5.6	12
43	Evaluation of recent hydro-climatic changes in four tributaries of the Niger River Basin (West Africa). Hydrological Sciences Journal, 2017, 62, 715-728.	2.6	25
44	Sustainability in the Food-Water-Ecosystem Nexus: The Role of Land Use and Land Cover Change for Water Resources and Ecosystems in the Kilombero Wetland, Tanzania. Sustainability, 2017, 9, 1513.	3.2	47
45	Applying SHETRAN in a Tropical West African Catchment (Dano, Burkina Faso)â€"Calibration, Validation, Uncertainty Assessment. Water (Switzerland), 2017, 9, 101.	2.7	26
46	Impact of climate change on hydrological conditions in a tropical West African catchment using an ensemble of climate simulations. Hydrology and Earth System Sciences, 2017, 21, 2143-2161.	4.9	55
47	Improving Hydro-Climatic Projections with Bias-Correction in Sahelian Niger Basin, West Africa. Climate, 2017, 5, 8.	2.8	17
48	Assessment of Groundwater Resources in the Context of Climate Change and Population Growth: Case of the Klela Basin in Southern Mali. Climate, 2017, 5, 45.	2.8	13
49	Influence of Parameter Sensitivity and Uncertainty on Projected Runoff in the Upper Niger Basin under a Changing Climate. Climate, 2017, 5, 67.	2.8	5
50	Water Balance Analysis over the Niger Inland Delta-Mali: Spatio-Temporal Dynamics of the Flooded Area and Water Losses. Hydrology, 2017, 4, 40.	3.0	6
51	Linkage between Water Level Dynamics and Climate Variability: The Case of Lake Hawassa Hydrology and ENSO Phenomena. Climate, 2017, 5, 21.	2.8	18
52	Integrated Flood Risk Assessment of Rural Communities in the Oti River Basin, West Africa. Hydrology, 2016, 3, 42.	3.0	23
53	Change in Heavy Rainfall Characteristics over the OuÃ©mÃ© River Basin, Benin Republic, West Africa. Climate, 2016, 4, 15.	2.8	15
54	Using High-Resolution Data to Test Parameter Sensitivity of the Distributed Hydrological Model HydroGeoSphere. Water (Switzerland), 2016, 8, 202.	2.7	24

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55	Future of Water Supply and Demand in the Middle DrÃ¢a Valley, Morocco, under Climate and Land Use Change. Water (Switzerland), 2016, 8, 313.	2.7	43
56	Quantifying Uncertainties in Modeling Climate Change Impacts on Hydropower Production. Climate, 2016, 4, 34.	2.8	32
57	Characterization of Water Level Variability of the Main Ethiopian Rift Valley Lakes. Hydrology, 2016, 3, 1.	3.0	49
58	Regional Flood Frequency Analysis in the Volta River Basin, West Africa. Hydrology, 2016, 3, 5.	3.0	17
59	Impact of Climate Change on Groundwater Resources in the Klela Basin, Southern Mali. Hydrology, 2016, 3, 17.	3.0	20
60	Comparing â^†Tmax Determination Approaches for Granier-Based Sapflow Estimations. Sensors, 2016, 16, 2042.	3.8	30
61	Vulnerability and adaptation to climate change in the Comoe River Basin (West Africa). SpringerPlus, 2016, 5, 847.	1.2	14
62	Modeling land use change impacts on water resources in a tropical West African catchment (Dano,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.4	82
63	Tracer sampling frequency influences estimates of young water fraction and streamwater transit time distribution. Journal of Hydrology, 2016, 541, 952-964.	5.4	54
64	A spatially explicit approach to assess the suitability for rice cultivation in an inland valley in central Benin. Agricultural Water Management, 2016, 177, 95-106.	5.6	22
65	Integrated hydrologic modeling as a key for sustainable urban water resources planning. Water Research, 2016, 101, 411-428.	11.3	28
66	How is water availability related to the land use and morphology of an inland valley wetland in Kenya?. Physics and Chemistry of the Earth, 2016, 93, 84-95.	2.9	13
67	Timescales of transformational climate change adaptation in sub-Saharan African agriculture. Nature Climate Change, 2016, 6, 605-609.	18.8	199
68	Inter-comparison of three distributed hydrological models with respect to seasonal variability of soil moisture patterns at a small forested catchment. Journal of Hydrology, 2016, 533, 234-249.	5.4	73
69	Interception effects on stable isotope driven streamwater transit time estimates. Geophysical Research Letters, 2015, 42, 5299-5308.	4.0	29
70	Monitoring and Modeling the Terrestrial System from Pores to Catchments: The Transregional Collaborative Research Center on Patterns in the Soilâ€“Vegetationâ€“Atmosphere System. Bulletin of the American Meteorological Society, 2015, 96, 1765-1787.	3.3	80
71	Non-Stationary Flood Frequency Analysis in the OuÃ©mÃ© River Basin, Benin Republic. Hydrology, 2015, 2, 210-229.	3.0	21
72	Soil survey and soil classification of the Koupendri catchment in Benin, West Africa. African Journal of Agricultural Research Vol Pp, 2015, 10, 3938-3951.	0.5	6

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73	Spatio-temporal soil moisture patterns â€“ A meta-analysis using plot to catchment scale data. Journal of Hydrology, 2015, 520, 326-341.	5.4	124
74	Hydro-climatic changes in the Niger basin and consistency of local perceptions. Regional Environmental Change, 2015, 15, 1627-1637.	2.9	44
75	Floodplain wetland mapping in the White Volta River Basin of Ghana. GIScience and Remote Sensing, 2015, 52, 374-395.	5.9	13
76	A terrestrial observatory approach to the integrated investigation of the effects of deforestation on water, energy, and matter fluxes. Science China Earth Sciences, 2015, 58, 61-75.	5.2	50
77	Spatio-temporal variability of soil respiration in a spruce-dominated headwater catchment in western Germany. Biogeosciences, 2014, 11, 4235-4249.	3.3	1
78	Scenario-Based Impacts of Land Use and Climate Change on Land and Water Degradation from the Meso to Regional Scale. Water (Switzerland), 2014, 6, 3152-3181.	2.7	43
79	Comparative study of a physically based distributed hydrological model versus a conceptual hydrological model for assessment of climate change response in the Upper Nile, Baro-Akobo basin: a case study of the Sore watershed, Ethiopia. International Journal of River Basin Management, 2014, 12, 299-318.	2.7	15
80	Significance of scale and lower boundary condition in the 3D simulation of hydrological processes and soil moisture variability in a forested headwater catchment. Journal of Hydrology, 2014, 516, 140-153.	5.4	33
81	Multivariate Prediction of Total Water Storage Changes Over West Africa from Multi-Satellite Data. Surveys in Geophysics, 2014, 35, 913-940.	4.6	72
82	Seasonal soil moisture patterns: Controlling transit time distributions in a forested headwater catchment. Water Resources Research, 2014, 50, 5270-5289.	4.2	45
83	Calibrating a FDR sensor for soil moisture monitoring in a wetland in Central Kenya. Physics and Chemistry of the Earth, 2013, 66, 101-111.	2.9	20
84	A comparison of hydrological models for assessing the impact of land use and climate change on discharge in a tropical catchment. Journal of Hydrology, 2013, 498, 221-236.	5.4	118
85	Using HydroGeoSphere in a Forested Catchment: How does Spatial Resolution Influence the Simulation of Spatio-temporal Soil Moisture Variability?. Procedia Environmental Sciences, 2013, 19, 198-207.	1.4	11
86	Impact of dumped sediment structures on hydrological modelling in the artificial Chicken Creek catchment, Germany. Journal of Hydrology, 2013, 477, 189-202.	5.4	4
87	Groundwater level monitoring and recharge estimation in the White Volta River basin of Ghana. Journal of African Earth Sciences, 2012, 71-72, 80-86.	2.0	40
88	Analyzing the effects of different soil databases on modeling of hydrological processes and sediment yield in Benin (West Africa). Geoderma, 2012, 173-174, 61-74.	5.1	35
89	Potential drought stress in a Swiss mountain catchmentâ€"Ensemble forecasting of high mountain soil moisture reveals a drastic decrease, despite major uncertainties. Water Resources Research, 2012, 48, .	4.2	24
90	Modeling the effects of crop patterns and management scenarios on N and P loads to surface water and groundwater in a semi-humid catchment (West Africa). Agricultural Water Management, 2012, 115, 20-37.	5.6	39

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91	Predicting the impact of linear landscape elements on surface runoff, soil erosion, and sedimentation in the Wahnbach catchment, Germany. Hydrological Processes, 2012, 26, 1642-1654.	2.6	11
92	Grope in the Dark â€“ Hydrological modelling of the artificial Chicken Creek catchment without validation possibilities. Physics and Chemistry of the Earth, 2011, 36, 113-122.	2.9	11
93	Geostatistical regionalization of daily runoff forecasts in Norway. International Journal of River Basin Management, 2011, 9, 3-15.	2.7	12
94	Mountain ecosystem response to global change. Erdkunde, 2011, 65, 189-213.	0.8	41
95	Influence of Soil Heterogeneity and Spatial Discretization on Catchment Water Balance Modeling. Vadose Zone Journal, 2010, 9, 955-969.	2.2	48
96	Drought frequency in the Volta Basin of West Africa. Sustainability Science, 2010, 5, 89-97.	4.9	98
97	Benin 2025â€"Balancing Future Water Availability and Demand Using the WEAP â€˜Water Evaluation and Planningâ€™ System. Water Resources Management, 2010, 24, 3591-3613.	3.9	58
98	Impacts of Global Change on the Hydrological Cycle in West and Northwest Africa. , 2010, , .		36
99	Use of chloride mass balance method for estimating the groundwater recharge in northeastern Ghana. International Journal of River Basin Management, 2010, 8, 245-253.	2.7	2
100	The IMPETUS Spatial Decision Support Systems. , 2010, , 360-393.		10
101	Continental hydrosphere. , 2010, , 164-253.		0
102	Introduction: The IMPETUS method. , 2010, , 352-358.		1
103	Hydrological Analyses as a Prerequisite for Soil Erosion Modeling â€“ Landscape Related Studies in a Mesoscale Hydrological Catchment. Lecture Notes in Earth Sciences, 2009, , 127-149.	0.5	4
104	Development of a Spatial Decision Support Framework for IMPETUS project in West Africa. Environmental Science and Engineering, 2009, , 132-148.	0.2	0
105	Geostatistical co-regionalization of soil hydraulic properties in a micro-scale catchment using terrain attributes. Geoderma, 2006, 132, 206-221.	5.1	78
106	Numerical experiments on the sensitivity of runoff generation to the spatial variation of soil hydraulic properties. Journal of Hydrology, 2006, 326, 43-58.	5.4	50
107	Physically-based modelling of hydrological processes in a tropical headwater catchment (West) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2006, 10, 829-847.	4.9	51
108	Customizing ArcGIS for spatial decision support: case study on locating potential small water resevoirs in Benin. , 2006, 6421, 281.		1

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109	From local hydrological process analysis to regional hydrological model application in Benin: Concept, results and perspectives. Physics and Chemistry of the Earth, 2005, 30, 347-356.	2.9	15
110	Assessing the effects of land use change on soil physical properties and hydrological processes in the sub-humid tropical environment of West Africa. Physics and Chemistry of the Earth, 2005, 30, 485-496.	2.9	91
111	A conceptual, regional hydrological model for Benin (West Africa): validation, uncertainty assessment and assessment of applicability for environmental change analyses. Physics and Chemistry of the Earth, 2004, 29, 759-768.	2.9	18
112	Possibilities and limitations of regional hydrological models applied within an environmental change study in Benin (West Africa). Physics and Chemistry of the Earth, 2003, 28, 1323-1332.	2.9	35
113	Analysis of the hydrological processes in a small headwater catchment in Benin (West Africa). Physics and Chemistry of the Earth, 2003, 28, 1333-1341.	2.9	46
114	Analysing and modelling solute and sediment transport in the catchment of the Wahnbach River. Physics and Chemistry of the Earth, 2003, 28, 227-237.	2.9	9
115	Modelling the spatial variability of soil moisture in a micro-scale catchment and comparison with field data using geostatistics. Physics and Chemistry of the Earth, 2003, 28, 239-245.	2.9	36
116	Upscaling of Hydrological Models by Means of Parameter Aggregation Technique. , 2003, , 145-165.		6
117	The influence of the spatial structure of soil properties on water balance modeling in a microscale catchment. Physics and Chemistry of the Earth, 2002, 27, 701-710.	2.9	20
118	Modelling solute and sediment transport at different spatial and temporal scales. Earth Surface Processes and Landforms, 2002, 27, 1475-1489.	2.5	6
119	Comparison of the performance of pesticide-leaching models on a cracking clay soil: results using the Brimstone Farm dataset. Agricultural Water Management, 2000, 44, 85-104.	5.6	38
120	Modeling pesticide dynamics of four different sites using the model system SIMULAT. Agricultural Water Management, 2000, 44, 337-355.	5.6	28
121	Regionalization scheme for the simulation of regional water balances using a physically based model system. Physics and Chemistry of the Earth, 1999, 24, 43-48.	0.3	4
122	Impacts of landscape management on the hydrological behaviour of small agricultural catchments. Physics and Chemistry of the Earth, 1999, 24, 291-296.	0.3	16
123	Regionalisation concept for hydrological modelling on different scales using a physically based model: Results and evaluation. Physics and Chemistry of the Earth, 1999, 24, 799-804.	0.3	25
124	Scaling input data by GIS for hydrological modelling. Hydrological Processes, 1999, 13, 611-630.	2.6	70
125	Evaluating spatial and temporal variability in soil erosion riskâ€"rainfall erosivity and soil loss ratios in Andalusia, Spain. Catena, 1999, 34, 209-225.	5.0	117
126	Regionalisierung von WasserquantitÃt und -qualitÃt â€" Konzepte und Methoden. , 1999, , 67-78.		1

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127	Measurement and simulation of herbicide transport in macroporous soils. Pest Management Science, 1998, 52, 241-250.	0.4	5
128	Simulation and model comparison of unsaturated movement of pesticides from a large clay lysimeter. Ecological Modelling, 1997, 105, 113-127.	2.5	21
129	Translating environmental xenobiotic fate models across scales. Hydrology and Earth System Sciences, 1997, 1, 895-904.	4.9	2
130	Effective Soil Water Characteristics and Ensemble Soil Water Profiles in Heterogeneous Soils. Water Resources Research, 1996, 32, 1993-2002.	4.2	51
131	Soil-water behaviour in a push terminal moraine: comparison of one- and two-dimensional simulations based on intensive regional field observations. Geoderma, 1996, 69, 249-263.	5.1	1
132	Effects of data availability on estimation of evapotranspiration. Physics and Chemistry of the Earth, 1996, 21, 171-175.	0.3	18
133	A New Approach of Regionalisation by Classifying Hydrological Quantities. Studies in Classification, Data Analysis, and Knowledge Organization, 1996, , 262-269.	0.2	0
134	Implementation of a herbicide simulation model in a geographical information system with an example of a site-specific application. Weed Research, 1995, 35, 333-342.	1.7	4
135	Validity of agroecosystem models a comparison of results of different models applied to the same data set. Ecological Modelling, 1995, 81, 3-29.	2.5	213
136	Simulation of water fluxes using different methods for estimating soil parameters. Ecological Modelling, 1995, 81, 83-95.	2.5	49
137	Modeling pesticide dynamics of a loam site using HERBSIM and SIMULAT. Ecological Modelling, 1995, 81, 111-119.	2.5	20
138	Modelling the microbial breakdown of pesticides in soil using a parameter estimation technique. Pest Management Science, 1994, 40, 285-292.	0.4	12
139	Temporal variability of soil surface crust conductivity. Soil and Tillage Research, 1994, 7, 1-18.	0.4	15
140	BIMODAL POROSITY AND UNSATURATED HYDRAULIC CONDUCTIVITY. Soil Science, 1991, 152, 139-150.	0.9	146
141	Deterministic hydrological site and catchment models for the analysis of agroecosystems. Catena, 1986, 13, 119-137.	5.0	19
142	An interdisciplinary scenario analysis to assess the water availability and water consumption in the Upper OuÃ©mÃ© catchment in Benin. Advances in Geosciences, 0, 9, 3-13.	12.0	30
143	Modelling extreme streamflows under non-stationary conditions in the OuÃ©mÃ© River basin, Benin, West Africa. Proceedings of the International Association of Hydrological Sciences, 0, 366, 143-144.	1.0	2
144	East African wetland-catchment data base for sustainable wetland management. Proceedings of the International Association of Hydrological Sciences, 0, 374, 123-128.	1.0	14

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145	Skalenwechsel Ã¼ber Parameter. , 0, , 25-98.		0
146	Heraufskalieren von landwirtschaftlich genutzten Ã–kotopen. , 0, , 150-174.		0