Berit Arheimer

List of Publications by Year
in descending order

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102 papers	9,577 citations	50032 45 h-index	37642 94 g-index
160 all docs	160 docs citations	160 times ranked	10231 citing authors

#	Article	IF	Citations
1	Which Potential Evapotranspiration Formula to Use in Hydrological Modeling Worldâ€Wide?. Water Resources Research, 2023, 59, .	4.1	15
2	Assessing robustness in global hydrological predictions by comparing modelling and Earth observations. Hydrological Sciences Journal, 2023, 68, 2357-2372.	2.6	2
3	Megafloods in Europe can be anticipated from observations in hydrologically similar catchments. Nature Geoscience, 2023, 16, 982-988.	11.7	4
4	Comparison of open access global climate services for hydrological data. Hydrological Sciences Journal, 2022, 67, 2369-2385.	2.6	5
5	Evaluation of parameter sensitivity of a rainfall-runoff model over a global catchment set. Hydrological Sciences Journal, 2022, 67, 342-357.	2.6	13
6	Remote sensing-aided rainfallâ€“runoff modeling in the tropics of Costa Rica. Hydrology and Earth System Sciences, 2022, 26, 975-999.	4.9	12
7	Quantifying multi-year hydrological memory with Catchment Forgetting Curves. Hydrology and Earth System Sciences, 2022, 26, 2715-2732.	4.9	9
8	Evaluation of overland flow modelling hypotheses with a multiâ€objective calibration using discharge and sediment data. Hydrological Processes, 2022, 36, .	2.6	4
9	Editorial â€“ Operational, epistemic and ethical value chaining of hydrological data to knowledge and services: a watershed moment. Hydrological Sciences Journal, 2022, 67, 2363-2368.	2.6	3
10	Hydrological impacts of a wildfire in a Boreal region: The VÃstmanland fire 2014 (Sweden). Science of the Total Environment, 2021, 756, 143519.	8.1	9
11	Designing a Climate Service for Planning Climate Actions in Vulnerable Countries. Atmosphere, 2021, 12, 121.	2.3	6
12	Large-Scale Hydrological and Sediment Modeling in Nested Domains under Current and Changing Climate. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	2.1	10
13	From local measures to regional impacts: Modelling changes in nutrient loads to the Baltic Sea. Journal of Hydrology: Regional Studies, 2021, 36, 100867.	2.5	4
14	Lessons learnt from checking the quality of openly accessible river flow data worldwide. Hydrological Sciences Journal, 2020, 65, 699-711.	2.6	57
15	Effect of model calibration strategy on climate projections of hydrological indicators at a continental scale. Climatic Change, 2020, 163, 1287-1306.	3.7	15
16	Global catchment modelling using World-Wide HYPE (WWH), open data, and stepwise parameter estimation. Hydrology and Earth System Sciences, 2020, 24, 535-559.	4.9	85
17	Editorial â€“ Towards FAIR and SQUARE hydrological data. Hydrological Sciences Journal, 2020, 65, 681-682.	2.6	27
18	Streamflow prediction in â€œgeopolitically ungaugedâ€•basins using satellite observations and regionalization at subcontinental scale. Journal of Hydrology, 2020, 588, 125016.	5.5	19

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19	Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. Elementa, 2020, 8, .	3.2	21
20	Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. Ambio, 2019, 48, 1325-1336.	5.7	45
21	Detecting Changes in River Flow Caused by Wildfires, Storms, Urbanization, Regulation, and Climate Across Sweden. Water Resources Research, 2019, 55, 8990-9005.	4.1	16
22	Changing climate both increases and decreases European river floods. Nature, 2019, 573, 108-111.	35.8	709
23	A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers. Hydrology and Earth System Sciences, 2019, 23, 73-91.	4.9	20
24	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	556
25	Use of participatory scenario modelling as platforms in stakeholder dialogues. Water S A, 2019, 34, 439.	0.4	27
26	How the performance of hydrological models relates to credibility of projections under climate change. Hydrological Sciences Journal, 2018, 63, 696-720.	2.6	146
27	Constraining Conceptual Hydrological Models With Multiple Information Sources. Water Resources Research, 2018, 54, 8332-8362.	4.1	92
28	A geostatistical data-assimilation technique for enhancing macro-scale rainfallâ€“runoff simulations. Hydrology and Earth System Sciences, 2018, 22, 4633-4648.	4.9	8
29	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. Hydrology and Earth System Sciences, 2018, 22, 567-580.	4.9	71
30	Impacts of 1.5 and 2.0ÂÂ°C Warming on Panâ€•Arctic River Discharge Into the Hudson Bay Complex Through 2070. Geophysical Research Letters, 2018, 45, 7561-7570.	3.9	27
31	A comparison of hydrological climate services at different scales by users and scientists. Climate Services, 2018, 11, 24-35.	2.6	28
32	Artificially Induced Floods to Manage Forest Habitats Under Climate Change. Frontiers in Environmental Science, 2018, 6, .	3.3	6
33	Lessons learned? Effects of nutrient reductions from constructing wetlands in 1996â€“2006 across Sweden. Ecological Engineering, 2017, 103, 404-414.	3.6	38
34	Climate change impact on the water regime of two great Arctic rivers: modeling and uncertainty issues. Climatic Change, 2017, 141, 499-515.	3.7	82
35	Providing peak river flow statistics and forecasting in the Niger River basin. Physics and Chemistry of the Earth, 2017, 100, 3-12.	3.1	21
36	Reply to comment by Melsen et al. on â€œMost computational hydrology is not reproducible, so is it really science?â€• Water Resources Research, 2017, 53, 2570-2571.	4.1	2

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37	Reply to comment by AÃ±el on â€œMost computational hydrology is not reproducible, so is it really science?â€ Water Resources Research, 2017, 53, 2575-2576.	4.1	1
38	Potential applications of subseasonalâ€toâ€seasonal (<scp>S2S</scp>) predictions. Meteorological Applications, 2017, 24, 315-325.	2.2	280
39	Intercomparison of regional-scale hydrological models and climate change impacts projected for 12 large river basins worldwideâ€"a synthesis. Environmental Research Letters, 2017, 12, 105002.	5.2	119
40	<scp>Arctic Mackenzie Delta</scp>channel planform evolution during 1983â€"2013 utilising<scp>Landsat</scp>data and hydrological time series. Hydrological Processes, 2017, 31, 3979-3995.	2.6	10
41	Regulation of snow-fed rivers affects flow regimes more than climate change. Nature Communications, 2017, 8, 62.	13.0	76
42	A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1Â°C, 2Â°C and 3Â°C. Climatic Change, 2017, 141, 577-595.	3.7	109
43	Analysis of hydrological extremes at different hydro-climatic regimes under present and future conditions. Climatic Change, 2017, 141, 467-481.	3.7	85
44	Process refinements improve a hydrological model concept applied to the Niger River basin. Hydrological Processes, 2017, 31, 4540-4554.	2.6	33
45	Understanding hydrologic variability across Europe through catchment classification. Hydrology and Earth System Sciences, 2017, 21, 2863-2879.	4.9	107
46	The evolution of root-zone moisture capacities after deforestation: a step towards hydrological predictions under change?. Hydrology and Earth System Sciences, 2016, 20, 4775-4799.	4.9	64
47	Hydrological Climate Change Impact Assessment at Small and Large Scales: Key Messages from Recent Progress in Sweden. Climate, 2016, 4, 39.	2.9	49
48	Most computational hydrology is not reproducible, so is it really science?. Water Resources Research, 2016, 52, 7548-7555.	4.1	124
49	A regional parameter estimation scheme for a pan-European multi-basin model. Journal of Hydrology: Regional Studies, 2016, 6, 90-111.	2.5	96
50	Using flow signatures and catchment similarities to evaluate the E-HYPE multi-basin model across Europe. Hydrological Sciences Journal, 2016, 61, 255-273.	2.6	199
51	Accelerating advances in continental domain hydrologic modeling. Water Resources Research, 2015, 51, 10078-10091.	4.1	114
52	Large-scale hydrological modelling by using modified PUB recommendations: the India-HYPE case. Hydrology and Earth System Sciences, 2015, 19, 4559-4579.	4.9	83
53	Climate impact on floods: changes in high flows in Sweden in the past and the future (1911â€"2100). Hydrology and Earth System Sciences, 2015, 19, 771-784.	4.9	107
54	Virtual laboratories: new opportunities for collaborative water science. Hydrology and Earth System Sciences, 2015, 19, 2101-2117.	4.9	67

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55	Experimenting with Coupled Hydro-Ecological Models to Explore Measure Plans and Water Quality Goals in a Semi-Enclosed Swedish Bay. Water (Switzerland), 2015, 7, 3906-3924.	2.8	14
56	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	4.9	442
57	Ensemble Modeling of the Baltic Sea Ecosystem to Provide Scenarios for Management. Ambio, 2014, 43, 37-48.	5.7	43
58	Uncertainty in the Swedish Operational Hydrological Forecasting Systems. , 2014, , .		17
59	Ensemble Modeling of the Baltic Sea Ecosystem to Provide Scenarios for Management. Ambio, 2014, 43, 37.	5.7	1
60	A decade of Predictions in Ungauged Basins (PUB)â€"a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	2.6	866
61	â€œPanta Rheiâ€"Everything Flowsâ€: Change in hydrology and societyâ€"The IAHS Scientific Decade 2013â€"2022. Hydrological Sciences Journal, 2013, 58, 1256-1275.	2.6	593
62	Comparing reconstructed past variations and future projections of the Baltic Sea ecosystemâ€"first results from multi-model ensemble simulations. Environmental Research Letters, 2012, 7, 034005.	5.2	118
63	Water and nutrient simulations using the HYPE model for Sweden vs. the Baltic Sea basin â€" influence of input-data quality and scale. Hydrology Research, 2012, 43, 315-329.	2.4	60
64	Climate Change Impact on Riverine Nutrient Load and Land-Based Remedial Measures of the Baltic Sea Action Plan. Ambio, 2012, 41, 600-612.	5.7	69
65	Water and nutrient predictions in ungauged basins: set-up and evaluation of a model at the national scale. Hydrological Sciences Journal, 2012, 57, 229-247.	2.6	121
66	A systematic review of sensitivities in the Swedish flood-forecasting system. Atmospheric Research, 2011, 100, 275-284.	4.2	49
67	A model-supported participatory process for nutrient management: a socio-legal analysis of a bottom-up implementation of the EU Water Framework Directive. International Journal of Agricultural Sustainability, 2011, 9, 379-389.	3.2	10
68	BALTEXâ€"an interdisciplinary research network for the Baltic Sea region. Environmental Research Letters, 2011, 6, 045205.	5.2	17
69	E-HypeWeb: Service for Water and Climate Information - and Future Hydrological Collaboration across Europe?. IFIP Advances in Information and Communication Technology, 2011, , 657-666.	1.0	11
70	Development and testing of the HYPE (Hydrological Predictions for the Environment) water quality model for different spatial scales. Hydrology Research, 2010, 41, 295-319.	2.4	461
71	Nitrogen and phosphorus retention in surface waters: an inter-comparison of predictions by catchment models of different complexity. Journal of Environmental Monitoring, 2009, 11, 584.	2.1	54
72	Evaluation of diffuse pollution model applications in EUROHARP catchments with limited data. Journal of Environmental Monitoring, 2009, 11, 554.	2.1	13

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73	Ensemble modelling of nutrient loads and nutrient load partitioning in 17 European catchments. Journal of Environmental Monitoring, 2009, 11, 572.	2.1	75
74	Subannual models for catchment management: evaluating model performance on three European catchments. Journal of Environmental Monitoring, 2009, 11, 526.	2.1	16
75	Evaluation of the difference of eight model applications to assess diffuse annual nutrient losses from agricultural land. Journal of Environmental Monitoring, 2009, 11, 540.	2.1	29
76	Description of nine nutrient loss models: capabilities and suitability based on their characteristics. Journal of Environmental Monitoring, 2009, 11, 506.	2.1	59
77	Using catchment models to establish measure plans according to the Water Framework Directive. Water Science and Technology, 2007, 56, 21-28.	2.5	10
78	How participatory can participatory modeling be? Degrees of influence of stakeholder and expert perspectives in six dimensions of participatory modeling. Water Science and Technology, 2007, 56, 207-214.	2.5	45
79	Regional and global concerns over wetlands and water quality. Trends in Ecology and Evolution, 2006, 21, 96-103.	8.7	654
80	Nitrogen retention in a river system and the effects of river morphology and lakes. Water Science and Technology, 2005, 51, 19-29.	2.5	20
81	Climate Change Impact on Water Quality: Model Results from Southern Sweden. Ambio, 2005, 34, 559-566.	5.7	104
82	Integrated Catchment Modeling for Nutrient Reduction: Scenarios Showing Impacts, Potential, and Cost of Measures. Ambio, 2005, 34, 513-520.	5.7	49
83	Integrated Water Management for Eutrophication Control: Public Participation, Pricing Policy, and Catchment Modeling. Ambio, 2005, 34, 482-488.	5.7	19
84	Modeling the Impact of Potential Wetlands on Phosphorus Retention in a Swedish Catchment. Ambio, 2005, 34, 544-551.	5.7	42
85	Estimating Catchment Nutrient Flow with the HBV-NP Model: Sensitivity To Input Data. Ambio, 2005, 34, 521-532.	5.7	39
86	Parameter Precision in the HBV-NP Model and Impacts on Nitrogen Scenario Simulations in the RÃ¶nneÃ¥ River, Southern Sweden. Ambio, 2005, 34, 533-537.	5.7	17
87	Modelling diffuse nutrient flow in eutrophication control scenarios. Water Science and Technology, 2004, 49, 37-45.	2.5	27
88	Landscape planning to reduce coastal eutrophication: agricultural practices and constructed wetlands. Landscape and Urban Planning, 2004, 67, 205-215.	7.6	47
89	Modelling of human and climatic impact on nitrogen load in a Swedish river 1885-1994. Hydrobiologia, 2003, 497, 63-77.	2.0	13
90	Modelling nitrogen removal in potential wetlands at the catchment scale. Ecological Engineering, 2002, 19, 63-80.	3.6	116

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91	Nitrogen Concentrations Simulated with HBV-N: New Response Function and Calibration Strategy. Hydrology Research, 2001, 32, 227-248.	2.4	18
92	Consequences of changed wetness on riverine nitrogen â€“ human impact on retention vs. natural climatic variability. Regional Environmental Change, 2001, 2, 93-105.	2.9	6
93	Watershed modelling of nonpoint nitrogen losses from arable land to the Swedish coast in 1985 and 1994. Ecological Engineering, 2000, 14, 389-404.	3.6	59
94	Nitrogen and phosphorus concentrations from agricultural catchmentsâ€"influence of spatial and temporal variables. Journal of Hydrology, 2000, 227, 140-159.	5.5	173
95	An integrated biogeochemical model system for the Baltic Sea. Hydrobiologia, 1999, 393, 45-56.	2.0	20
96	An integrated biogeochemical model system for the Baltic Sea. , 1999, , 45-56.		0
97	Variation of nitrogen concentration in forest streams â€" influences of flow, seasonality and catchment characteristics. Journal of Hydrology, 1996, 179, 281-304.	5.5	118
98	Source apportionment of riverine nitrogen transport based on catchment modelling. Water Science and Technology, 1996, 33, 109-115.	2.5	77
99	Influence of catchment characteristics, forestry activities and deposition on nitrogen export from small forested catchments. Water, Air, and Soil Pollution, 1995, 84, 81-102.	2.5	51
100	Electricity vs Ecosystems â€“ understanding and predicting hydropower impact on Swedish river flow. Proceedings of the International Association of Hydrological Sciences, 0, 364, 313-319.	1.0	12
101	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. Proceedings of the International Association of Hydrological Sciences, 0, 370, 89-95.	1.0	33
102	The IAHS Science for Solutions decade, with Hydrology Engaging Local People IN a Global world (HELPING). Hydrological Sciences Journal, 0, , .	2.6	1