

Berit Arheimer

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

8,997
citations

57758

44
h-index

43889

91
g-index

142
all docs

142
docs citations

142
times ranked

9220
citing authors

#	ARTICLE	IF	CITATIONS
1	A decade of Predictions in Ungauged Basins (PUB)â€”a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	2.6	821
2	Changing climate both increases and decreases European river floods. Nature, 2019, 573, 108-111.	27.8	639
3	Regional and global concerns over wetlands and water quality. Trends in Ecology and Evolution, 2006, 21, 96-103.	8.7	637
4	Changing climate shifts timing of European floods. Science, 2017, 357, 588-590.	12.6	584
5	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	569
6	Twenty-three unsolved problems in hydrology (UPH) â€” a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
7	Development and testing of the HYPE (Hydrological Predictions for the Environment) water quality model for different spatial scales. Hydrology Research, 2010, 41, 295-319.	2.7	432
8	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	4.9	423
9	Potential applications of subseasonalâ€”toâ€”seasonal (<sc>S2S</sc>) predictions. Meteorological Applications, 2017, 24, 315-325.	2.1	265
10	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	189
11	Nitrogen and phosphorus concentrations from agricultural catchmentsâ€”influence of spatial and temporal variables. Journal of Hydrology, 2000, 227, 140-159.	5.4	170
12	How the performance of hydrological models relates to credibility of projections under climate change. Hydrological Sciences Journal, 2018, 63, 696-720.	2.6	133
13	Most computational hydrology is not reproducible, so is it really science?. Water Resources Research, 2016, 52, 7548-7555.	4.2	119
14	Variation of nitrogen concentration in forest streams â€” influences of flow, seasonality and catchment characteristics. Journal of Hydrology, 1996, 179, 281-304.	5.4	117
15	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	116
16	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	116
17	Modelling nitrogen removal in potential wetlands at the catchment scale. Ecological Engineering, 2002, 19, 63-80.	3.6	113
18	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	109

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19	Climate impact on floods: changes in high flows in Sweden in the past and the future (1911–2100). <i>Hydrology and Earth System Sciences</i> , 2015, 19, 771-784.	4.9	105
20	A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1.5°C, 2.0°C and 3.0°C. <i>Climatic Change</i> , 2017, 141, 577-595.	3.6	104
21	Climate Change Impact on Water Quality: Model Results from Southern Sweden. <i>Ambio</i> , 2005, 34, 559-566.	5.5	103
22	Accelerating advances in continental domain hydrologic modeling. <i>Water Resources Research</i> , 2015, 51, 10078-10091.	4.2	102
23	Understanding hydrologic variability across Europe through catchment classification. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2863-2879.	4.9	97
24	A regional parameter estimation scheme for a pan-European multi-basin model. <i>Journal of Hydrology: Regional Studies</i> , 2016, 6, 90-111.	2.4	88
25	Constraining Conceptual Hydrological Models With Multiple Information Sources. <i>Water Resources Research</i> , 2018, 54, 8332-8362.	4.2	85
26	Large-scale hydrological modelling by using modified PUB recommendations: the India-HYPE case. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4559-4579.	4.9	81
27	Climate change impact on the water regime of two great Arctic rivers: modeling and uncertainty issues. <i>Climatic Change</i> , 2017, 141, 499-515.	3.6	77
28	Analysis of hydrological extremes at different hydro-climatic regimes under present and future conditions. <i>Climatic Change</i> , 2017, 141, 467-481.	3.6	77
29	Source apportionment of riverine nitrogen transport based on catchment modelling. <i>Water Science and Technology</i> , 1996, 33, 109-115.	2.5	76
30	Ensemble modelling of nutrient loads and nutrient load partitioning in 17 European catchments. <i>Journal of Environmental Monitoring</i> , 2009, 11, 572.	2.1	75
31	Global catchment modelling using World-Wide HYPE (WWH), open data, and stepwise parameter estimation. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 535-559.	4.9	75
32	Regulation of snow-fed rivers affects flow regimes more than climate change. <i>Nature Communications</i> , 2017, 8, 62.	12.8	73
33	Climate Change Impact on Riverine Nutrient Load and Land-Based Remedial Measures of the Baltic Sea Action Plan. <i>Ambio</i> , 2012, 41, 600-612.	5.5	65
34	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 567-580.	4.9	65
35	Virtual laboratories: new opportunities for collaborative water science. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2101-2117.	4.9	63
36	The evolution of root-zone moisture capacities after deforestation: a step towards hydrological predictions under change?. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4775-4799.	4.9	61

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37	Watershed modelling of nonpoint nitrogen losses from arable land to the Swedish coast in 1985 and 1994. <i>Ecological Engineering</i> , 2000, 14, 389-404.	3.6	59
38	Description of nine nutrient loss models: capabilities and suitability based on their characteristics. <i>Journal of Environmental Monitoring</i> , 2009, 11, 506.	2.1	59
39	Water and nutrient simulations using the HYPE model for Sweden vs. the Baltic Sea basin – influence of input-data quality and scale. <i>Hydrology Research</i> , 2012, 43, 315-329.	2.7	59
40	Nitrogen and phosphorus retention in surface waters: an inter-comparison of predictions by catchment models of different complexity. <i>Journal of Environmental Monitoring</i> , 2009, 11, 584.	2.1	53
41	Lessons learnt from checking the quality of openly accessible river flow data worldwide. <i>Hydrological Sciences Journal</i> , 2020, 65, 699-711.	2.6	50
42	Influence of catchment characteristics, forestry activities and deposition on nitrogen export from small forested catchments. <i>Water, Air, and Soil Pollution</i> , 1995, 84, 81-102.	2.4	48
43	A systematic review of sensitivities in the Swedish flood-forecasting system. <i>Atmospheric Research</i> , 2011, 100, 275-284.	4.1	48
44	Landscape planning to reduce coastal eutrophication: agricultural practices and constructed wetlands. <i>Landscape and Urban Planning</i> , 2004, 67, 205-215.	7.5	46
45	Hydrological Climate Change Impact Assessment at Small and Large Scales: Key Messages from Recent Progress in Sweden. <i>Climate</i> , 2016, 4, 39.	2.8	46
46	How participatory can participatory modeling be? Degrees of influence of stakeholder and expert perspectives in six dimensions of participatory modeling. <i>Water Science and Technology</i> , 2007, 56, 207-214.	2.5	44
47	Modeling the Impact of Potential Wetlands on Phosphorus Retention in a Swedish Catchment. <i>Ambio</i> , 2005, 34, 544-551.	5.5	42
48	Ensemble Modeling of the Baltic Sea Ecosystem to Provide Scenarios for Management. <i>Ambio</i> , 2014, 43, 37-48.	5.5	42
49	Integrated Catchment Modeling for Nutrient Reduction: Scenarios Showing Impacts, Potential, and Cost of Measures. <i>Ambio</i> , 2005, 34, 513-520.	5.5	41
50	Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. <i>Ambio</i> , 2019, 48, 1325-1336.	5.5	37
51	Lessons learned? Effects of nutrient reductions from constructing wetlands in 1996–2006 across Sweden. <i>Ecological Engineering</i> , 2017, 103, 404-414.	3.6	36
52	Process refinements improve a hydrological model concept applied to the Niger River basin. <i>Hydrological Processes</i> , 2017, 31, 4540-4554.	2.6	33
53	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 370, 89-95.	1.0	32
54	The impact of climatic extreme events on the feasibility of fully renewable power systems: A case study for Sweden. <i>Energy</i> , 2019, 178, 695-713.	8.8	31

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55	Evolving Climate Services into Knowledge-Action Systems. <i>Weather, Climate, and Society</i> , 2019, 11, 385-399.	1.1	30
56	Estimating Catchment Nutrient Flow with the HBV-NP Model: Sensitivity To Input Data. <i>Ambio</i> , 2005, 34, 521-532.	5.5	29
57	Evaluation of the difference of eight model applications to assess diffuse annual nutrient losses from agricultural land. <i>Journal of Environmental Monitoring</i> , 2009, 11, 540.	2.1	28
58	Modelling diffuse nutrient flow in eutrophication control scenarios. <i>Water Science and Technology</i> , 2004, 49, 37-45.	2.5	27
59	Impacts of 1.5 and 2.0°C Warming on Pan-Arctic River Discharge Into the Hudson Bay Complex Through 2070. <i>Geophysical Research Letters</i> , 2018, 45, 7561-7570.	4.0	26
60	A comparison of hydrological climate services at different scales by users and scientists. <i>Climate Services</i> , 2018, 11, 24-35.	2.5	26
61	Use of participatory scenario modelling as platforms in stakeholder dialogues. <i>Water S A</i> , 2019, 34, 439.	0.4	26
62	Editorial - Towards FAIR and SQUARE hydrological data. <i>Hydrological Sciences Journal</i> , 2020, 65, 681-682.	2.6	22
63	Nitrogen retention in a river system and the effects of river morphology and lakes. <i>Water Science and Technology</i> , 2005, 51, 19-29.	2.5	20
64	An integrated biogeochemical model system for the Baltic Sea. , 1999, 393, 45-56.		19
65	Providing peak river flow statistics and forecasting in the Niger River basin. <i>Physics and Chemistry of the Earth</i> , 2017, 100, 3-12.	2.9	19
66	Climate change impact on water quality: model results from southern Sweden. <i>Ambio</i> , 2005, 34, 559-66.	5.5	19
67	Nitrogen Concentrations Simulated with HBV-N: New Response Function and Calibration Strategy. <i>Hydrology Research</i> , 2001, 32, 227-248.	2.7	18
68	A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 73-91.	4.9	18
69	BALTEX-an interdisciplinary research network for the Baltic Sea region. <i>Environmental Research Letters</i> , 2011, 6, 045205.	5.2	17
70	Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. <i>Elementa</i> , 2020, 8, .	3.2	17
71	Subannual models for catchment management: evaluating model performance on three European catchments. <i>Journal of Environmental Monitoring</i> , 2009, 11, 526.	2.1	16
72	Streamflow prediction in -geopolitically ungauged-basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , 2020, 588, 125016.	5.4	16

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73	Integrated Water Management for Eutrophication Control: Public Participation, Pricing Policy, and Catchment Modeling. <i>Ambio</i> , 2005, 34, 482-488.	5.5	15
74	Parameter Precision in the HBV-NP Model and Impacts on Nitrogen Scenario Simulations in the RÄpne River, Southern Sweden. <i>Ambio</i> , 2005, 34, 533-537.	5.5	15
75	Uncertainty in the Swedish Operational Hydrological Forecasting Systems. , 2014, , .		15
76	Effect of model calibration strategy on climate projections of hydrological indicators at a continental scale. <i>Climatic Change</i> , 2020, 163, 1287-1306.	3.6	14
77	Modelling of human and climatic impact on nitrogen load in a Swedish river 1885-1994. <i>Hydrobiologia</i> , 2003, 497, 63-77.	2.0	13
78	Evaluation of diffuse pollution model applications in EUROHARP catchments with limited data. <i>Journal of Environmental Monitoring</i> , 2009, 11, 554.	2.1	13
79	Detecting Changes in River Flow Caused by Wildfires, Storms, Urbanization, Regulation, and Climate Across Sweden. <i>Water Resources Research</i> , 2019, 55, 8990-9005.	4.2	13
80	Experimenting with Coupled Hydro-Ecological Models to Explore Measure Plans and Water Quality Goals in a Semi-Enclosed Swedish Bay. <i>Water (Switzerland)</i> , 2015, 7, 3906-3924.	2.7	12
81	Remote sensing-aided rainfall-runoff modeling in the tropics of Costa Rica. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 975-999.	4.9	12
82	Evaluation of parameter sensitivity of a rainfall-runoff model over a global catchment set. <i>Hydrological Sciences Journal</i> , 2022, 67, 342-357.	2.6	11
83	Source apportionment of riverine nitrogen transport based on catchment modelling. <i>Water Science and Technology</i> , 1996, 33, 109.	2.5	10
84	Using catchment models to establish measure plans according to the Water Framework Directive. <i>Water Science and Technology</i> , 2007, 56, 21-28.	2.5	10
85	<scp>Arctic Mackenzie Delta</scp> channel planform evolution during 1983–2013 utilising <scp>Landsat</scp> data and hydrological time series. <i>Hydrological Processes</i> , 2017, 31, 3979-3995.	2.6	10
86	E-HypeWeb: Service for Water and Climate Information - and Future Hydrological Collaboration across Europe?. <i>IFIP Advances in Information and Communication Technology</i> , 2011, , 657-666.	0.7	10
87	Electricity vs Ecosystems “ understanding and predicting hydropower impact on Swedish river flow. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 364, 313-319.	1.0	10
88	A model-supported participatory process for nutrient management: a socio-legal analysis of a bottom-up implementation of the EU Water Framework Directive. <i>International Journal of Agricultural Sustainability</i> , 2011, 9, 379-389.	3.5	9
89	Quantifying multi-year hydrological memory with Catchment Forgetting Curves. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2715-2732.	4.9	9
90	Hydrological impacts of a wildfire in a Boreal region: The V–stmanland fire 2014 (Sweden). <i>Science of the Total Environment</i> , 2021, 756, 143519.	8.0	8

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91	Large-Scale Hydrological and Sediment Modeling in Nested Domains under Current and Changing Climate. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, .	1.9	8
92	A geostatistical data-assimilation technique for enhancing macro-scale rainfall-runoff simulations. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4633-4648.	4.9	7
93	Consequences of changed wetness on riverine nitrogen – human impact on retention vs. natural climatic variability. <i>Regional Environmental Change</i> , 2001, 2, 93-105.	2.9	6
94	Designing a Climate Service for Planning Climate Actions in Vulnerable Countries. <i>Atmosphere</i> , 2021, 12, 121.	2.3	6
95	Artificially Induced Floods to Manage Forest Habitats Under Climate Change. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	6
96	Comparison of open access global climate services for hydrological data. <i>Hydrological Sciences Journal</i> , 2020, , 1-17.	2.6	4
97	Integrated catchment modeling for nutrient reduction: scenarios showing impacts, potential, and cost of measures. <i>Ambio</i> , 2005, 34, 513-20.	5.5	4
98	Reply to comment by Melsen et al. on “Most computational hydrology is not reproducible, so is it really science?”. <i>Water Resources Research</i> , 2017, 53, 2570-2571.	4.2	2
99	Reply to comment by AÅ±el on “Most computational hydrology is not reproducible, so is it really science?”. <i>Water Resources Research</i> , 2017, 53, 2575-2576.	4.2	1
100	From local measures to regional impacts: Modelling changes in nutrient loads to the Baltic Sea. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100867.	2.4	1
101	Ensemble Modeling of the Baltic Sea Ecosystem to Provide Scenarios for Management. , 2014, 43, 37.		1
102	An integrated biogeochemical model system for the Baltic Sea. , 1999, , 45-56.		0