

Kerstin Stahl

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

8,382
citations

44069

48
h-index

49909

87
g-index

165
all docs

165
docs citations

165
times ranked

7435
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought in the Anthropocene. <i>Nature Geoscience</i> , 2016, 9, 89-91.	12.9	537
2	Candidate Distributions for Climatological Drought Indices (<sc>SPI</sc> and <sc>SPEI</sc>). <i>International Journal of Climatology</i> , 2015, 35, 4027-4040.	3.5	483
3	Streamflow trends in Europe: evidence from a dataset of near-natural catchments. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2367-2382.	4.9	370
4	Have streamflow droughts in Europe become more severe or frequent?. <i>International Journal of Climatology</i> , 2001, 21, 317-333.	3.5	302
5	Comparison of approaches for spatial interpolation of daily air temperature in a large region with complex topography and highly variable station density. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 224-236.	4.8	301
6	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3631-3650.	4.9	289
7	Glacier change in western North America: influences on hydrology, geomorphic hazards and water quality. <i>Hydrological Processes</i> , 2009, 23, 42-61.	2.6	278
8	Large-scale river flow archives: importance, current status and future needs. <i>Hydrological Processes</i> , 2011, 25, 1191-1200.	2.6	274
9	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020, 10, 191-199.	18.8	210
10	Coupled modelling of glacier and streamflow response to future climate scenarios. <i>Water Resources Research</i> , 2008, 44, .	4.2	199
11	Impacts of European drought events: insights from an international database of text-based reports. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 801-819.	3.6	187
12	Modeling drought impact occurrence based on meteorological drought indices in Europe. <i>Journal of Hydrology</i> , 2015, 530, 37-50.	5.4	169
13	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. <i>Ecography</i> , 2008, 31, 348-358.	4.5	166
14	Drought indicators revisited: the need for a wider consideration of environment and society. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 516-536.	6.5	161
15	Hydrology needed to manage droughts: the 2015 European case. <i>Hydrological Processes</i> , 2016, 30, 3097-3104.	2.6	152
16	Influence of watershed glacier coverage on summer streamflow in British Columbia, Canada. <i>Water Resources Research</i> , 2006, 42, .	4.2	150
17	Climate change and the institutional resilience of international river basins. <i>Journal of Peace Research</i> , 2012, 49, 193-209.	2.9	147
18	Comparing Large-Scale Hydrological Model Simulations to Observed Runoff Percentiles in Europe. <i>Journal of Hydrometeorology</i> , 2012, 13, 604-620.	1.9	135

#	ARTICLE	IF	CITATIONS
19	Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2035-2047.	4.9	134
20	The European 2015 drought from a hydrological perspective. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3001-3024.	4.9	132
21	Estimating drought risk across Europe from reported drought impacts, drought indices, and vulnerability factors. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2779-2800.	4.9	126
22	Climate change could alter the distribution of mountain pine beetle outbreaks in western Canada. <i>Ecography</i> , 2012, 35, 211-223.	4.5	122
23	Climate-driven variability in the occurrence of major floods across North America and Europe. <i>Journal of Hydrology</i> , 2017, 552, 704-717.	5.4	122
24	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. <i>Water Resources Research</i> , 2009, 45, .	4.2	117
25	Towards pan-European drought risk maps: quantifying the link between drought indices and reported drought impacts. <i>Environmental Research Letters</i> , 2015, 10, 014008.	5.2	116
26	Comparison of approaches for spatial interpolation of daily air temperature in a large region with complex topography and highly variable station density. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 224-236.	4.8	115
27	The influence of decadal-scale variability on trends in long European streamflow records. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2717-2733.	4.9	113
28	How well do meteorological indicators represent agricultural and forest drought across Europe?. <i>Environmental Research Letters</i> , 2018, 13, 034042.	5.2	107
29	Comparison of hydrological model structures based on recession and low flow simulations. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3447-3459.	4.9	104
30	Catchment water storage variation with elevation. <i>Hydrological Processes</i> , 2017, 31, 2000-2015.	2.6	103
31	The role of synoptic-scale circulation in the linkage between large-scale ocean-atmosphere indices and winter surface climate in British Columbia, Canada. <i>International Journal of Climatology</i> , 2006, 26, 541-560.	3.5	96
32	Are streamflow recession characteristics really characteristic?. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 817-828.	4.9	94
33	A quantitative analysis to objectively appraise drought indicators and model drought impacts. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2589-2609.	4.9	94
34	Exploring the link between drought indicators and impacts. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1381-1397.	3.6	90
35	Large-scale analysis of changing frequencies of rain-on-snow events with flood-generation potential. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2695-2709.	4.9	89
36	Geography of international water conflict and cooperation: Data sets and applications. <i>Water Resources Research</i> , 2004, 40, .	4.2	84

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37	Streamflow sensitivity to drought scenarios in catchments with different geology. <i>Geophysical Research Letters</i> , 2014, 41, 6174-6183.	4.0	82
38	Linking streamflow drought to the occurrence of atmospheric circulation patterns. <i>Hydrological Sciences Journal</i> , 1999, 44, 467-482.	2.6	79
39	A drought index accounting for snow. <i>Water Resources Research</i> , 2014, 50, 7861-7872.	4.2	78
40	Human influences on streamflow drought characteristics in England and Wales. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1051-1064.	4.9	65
41	Spatial and temporal patterns of large-scale droughts in Europe: Model dispersion and performance. <i>Geophysical Research Letters</i> , 2014, 41, 429-434.	4.0	63
42	Snow redistribution for the hydrological modeling of alpine catchments. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1232.	6.5	63
43	Effects of univariate and multivariate bias correction on hydrological impact projections in alpine catchments. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1339-1354.	4.9	63
44	Climatology of winter cold spells in relation to mountain pine beetle mortality in British Columbia, Canada. <i>Climate Research</i> , 2006, 32, 13-23.	1.1	62
45	Large-scale Assessment of Delayed Groundwater Responses to Drought. <i>Water Resources Research</i> , 2020, 56, e2019WR025441.	4.2	60
46	Comparison of different threshold level methods for drought propagation analysis in Germany. <i>Hydrology Research</i> , 2017, 48, 1311-1326.	2.7	58
47	Developing drought impact functions for drought risk management. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1947-1960.	3.6	51
48	Natural and Human Influences on the Link Between Meteorological and Hydrological Drought Indices for a Large Set of Catchments in the Contiguous United States. <i>Water Resources Research</i> , 2018, 54, 6005-6023.	4.2	51
49	The Processes, Patterns and Impacts of Low Flows Across Canada. <i>Canadian Water Resources Journal</i> , 2008, 33, 107-124.	1.2	50
50	Attribution of European precipitation and temperature trends to changes in synoptic circulation. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3093-3107.	4.9	49
51	Inter-comparison of weather and circulation type classifications for hydrological drought development. <i>Physics and Chemistry of the Earth</i> , 2010, 35, 507-515.	2.9	46
52	Low-frequency variability of European runoff. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2853-2869.	4.9	46
53	Derivation of melt factors from glacier mass-balance records in western Canada. <i>Journal of Glaciology</i> , 2009, 55, 123-130.	2.2	43
54	Response to comment on "Candidate Distributions for Climatological Drought Indices" (Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (3.5	42

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55	Streamflow Data from Small Basins: A Challenging Test to High-Resolution Regional Climate Modeling. <i>Journal of Hydrometeorology</i> , 2011, 12, 900-912.	1.9	41
56	An assessment of trends and potential future changes in groundwater-baseflow drought based on catchment response times. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6209-6224.	4.9	40
57	Drought Characteristics Derived Based on the Standardized Streamflow Index: A Large Sample Comparison for Parametric and Nonparametric Methods. <i>Water Resources Research</i> , 2020, 56, e2019WR026315.	4.2	37
58	Spatial cross-correlation patterns of European low, mean and high flows. <i>Hydrological Processes</i> , 2011, 25, 1034-1045.	2.6	36
59	Beyond binary baseflow separation: a delayed-flow index for multiple streamflow contributions. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 849-867.	4.9	36
60	The role of glacier changes and threshold definition in the characterisation of future streamflow droughts in glacierised catchments. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 463-485.	4.9	33
61	Index-Based Characterization and Quantification of Groundwater Dynamics. <i>Water Resources Research</i> , 2019, 55, 5575-5592.	4.2	33
62	Magic components—why quantifying rain, snowmelt, and icemelt in river discharge is not easy. <i>Hydrological Processes</i> , 2018, 32, 160-166.	2.6	31
63	Technical note: Representing glacier geometry changes in a semi-distributed hydrological model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2211-2224.	4.9	31
64	An inventory of Alpine drought impact reports to explore past droughts in a mountain region. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2485-2501.	3.6	30
65	Synoptic sea-level pressure patterns generated by a general circulation model: comparison with types derived from NCEP/NCAR re-analysis and implications for downscaling. <i>International Journal of Climatology</i> , 2006, 26, 1727-1736.	3.5	29
66	Glacio-hydrological model calibration and evaluation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1483.	6.5	28
67	Is there a superior conceptual groundwater model structure for baseflow simulation?. <i>Hydrological Processes</i> , 2015, 29, 1301-1313.	2.6	26
68	Sensitivity of a data-driven soil water balance model to estimate summer evapotranspiration along a forest chronosequence. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3461-3473.	4.9	24
69	Influence of Hydroclimatology and Socioeconomic Conditions on Water-Related International Relations. <i>Water International</i> , 2005, 30, 270-282.	1.0	21
70	The compensating effect of glaciers: Characterizing the relation between interannual streamflow variability and glacier cover. <i>Hydrological Processes</i> , 2020, 34, 553-568.	2.6	20
71	The challenges of hydrological drought definition, quantification and communication: an interdisciplinary perspective. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 383, 291-295.	1.0	20
72	Hydrological response to warm and dry weather: do glaciers compensate?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3245-3265.	4.9	19

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73	Different drought types and the spatial variability in their hazard, impact, and propagation characteristics. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2099-2116.	3.6	17
74	A multidisciplinary drought catalogue for southwestern Germany dating back to 1801. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2979-2995.	3.6	16
75	Physiographic and Climatic Controls on Regional Groundwater Dynamics. <i>Water Resources Research</i> , 2020, 56, e2019WR026545.	4.2	15
76	Groundwater and baseflow drought responses to synthetic recharge stress tests. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1053-1068.	4.9	14
77	A prototype platform for water resources monitoring and early recognition of critical droughts in Switzerland. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 364, 492-498.	1.0	14
78	Trends in groundwater levels in British Columbia. <i>Canadian Water Resources Journal</i> , 2014, 39, 15-31.	1.2	13
79	Evapotranspiration and land cover transitions: long-term watershed response in recovering forested ecosystems. <i>Ecohydrology</i> , 2012, 5, 721-732.	2.4	12
80	Patterns in the linkage of water quantity and quality during low flows. <i>Hydrological Processes</i> , 2017, 31, 4195-4205.	2.6	12
81	A model comparison assessing the importance of lateral groundwater flows at the global scale. <i>Environmental Research Letters</i> , 2022, 17, 044020.	5.2	12
82	Recent evidence for warmer and drier growing seasons in climate sensitive regions of Central America from multiple global datasets. <i>International Journal of Climatology</i> , 2022, 42, 1399-1417.	3.5	11
83	Groundwater extraction reduces tree vitality, growth and xylem hydraulic capacity in <i>Quercus robur</i> during and after drought events. <i>Scientific Reports</i> , 2021, 11, 5149.	3.3	10
84	Stakeholder Coinquiries on Drought Impacts, Monitoring, and Early Warning Systems. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES217-ES220.	3.3	8
85	Similarity-based approaches in hydrogeology: proposal of a new concept for data-scarce groundwater resource characterization and prediction. <i>Hydrogeology Journal</i> , 2021, 29, 1693.	2.1	8
86	Repository of Drought Event Impacts Across the Danube Catchment Countries Between 1981 and 2016 Using Publicly Available Sources. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2019, 67, 925-938.	0.4	8
87	Controls on hydrologic drought duration in near-natural streamflow in Europe and the USA. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4043-4059.	4.9	7
88	Stress testing as complement to climate scenarios: recharge scenarios to quantify streamflow drought sensitivity. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 383, 43-50.	1.0	7
89	Evaluating tropical drought risk by combining open access gridded vulnerability and hazard data products. <i>Science of the Total Environment</i> , 2022, 822, 153493.	8.0	7
90	The impact of the resolution of meteorological data sets on catchment-scale precipitation and drought studies. <i>International Journal of Climatology</i> , 2018, 38, 3069-3081.	3.5	6

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91	Revisiting Major Dry Periods by Rolling Time Series Analysis for Human-Water Relevance in Drought. <i>Water Resources Management</i> , 2022, 36, 2725-2739.	3.9	5
92	Assessment of the Vulnerability of a River System to Drought. <i>Advances in Natural and Technological Hazards Research</i> , 2000, , 209-219.	1.1	2
93	Fostering drought research and science-policy interfacing: Achievements of the DROUGHT-R&S;S;PI project. , 2015, , 3-12.		1
94	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. <i>Ecography</i> , 2008, .	4.5	0
95	The CH-IRP data set: a decade of fortnightly data on $\delta^{18}O$ and δ^2H in streamflow and precipitation in Switzerland. <i>Earth System Science Data</i> . 2020, 12, 3057-3066.	9.9	0