Kerstin Stahl

List of Publications by Year
in descending order

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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	Recent evidence for warmer and drier growing seasons in climate sensitive regions of Central America from multiple global datasets. International Journal of Climatology, 2022, 42, 1399-1417.	3.5	11
2	Evaluating tropical drought risk by combining open access gridded vulnerability and hazard data products. Science of the Total Environment, 2022, 822, 153493.	8.0	7
3	A model comparison assessing the importance of lateral groundwater flows at the global scale. Environmental Research Letters, 2022, 17, 044020.	5.2	12
4	Revisiting Major Dry Periods by Rolling Time Series Analysis for Human-Water Relevance in Drought. Water Resources Management, 2022, 36, 2725-2739.	3.9	5
5	Different drought types and the spatial variability in their hazard, impact, and propagation characteristics. Natural Hazards and Earth System Sciences, 2022, 22, 2099-2116.	3.6	17
6	Groundwater and baseflow drought responses to synthetic recharge stress tests. Hydrology and Earth System Sciences, 2021, 25, 1053-1068.	4.9	14
7	Groundwater extraction reduces tree vitality, growth and xylem hydraulic capacity in Quercus robur during and after drought events. Scientific Reports, 2021, 11, 5149.	3.3	10
8	Similarity-based approaches in hydrogeology: proposal of a new concept for data-scarce groundwater resource characterization and prediction. Hydrogeology Journal, 2021, 29, 1693.	2.1	8
9	Hydrological response to warm and dry weather: do glaciers compensate?. Hydrology and Earth System Sciences, 2021, 25, 3245-3265.	4.9	19
10	An inventory of Alpine drought impact reports to explore past droughts in a mountain region. Natural Hazards and Earth System Sciences, 2021, 21, 2485-2501.	3.6	30
11	The compensating effect of glaciers: Characterizing the relation between interannual streamflow variability and glacier cover. Hydrological Processes, 2020, 34, 553-568.	2.6	20
12	Physiographic and Climatic Controls on Regional Groundwater Dynamics. Water Resources Research, 2020, 56, e2019WR026545.	4.2	15
13	Glacioâ€hydrological model calibration and evaluation. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1483.	6.5	28
14	Drought Characteristics Derived Based on the Standardized Streamflow Index: A Large Sample Comparison for Parametric and Nonparametric Methods. Water Resources Research, 2020, 56, e2019WR026315.	4.2	37
15	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. Nature Climate Change, 2020, 10, 191-199.	18.8	210
16	Largeâ€Scale Assessment of Delayed Groundwater Responses to Drought. Water Resources Research, 2020, 56, e2019WR025441.	4.2	60
17	Beyond binary baseflow separation: a delayed-flow index for multiple streamflow contributions. Hydrology and Earth System Sciences, 2020, 24, 849-867.	4.9	36
18	A multidisciplinary drought catalogue for southwestern Germany dating back toÂ1801. Natural Hazards and Earth System Sciences, 2020, 20, 2979-2995.	3.6	16

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19	The CH-IRP data set: a decade of fortnightly data on <i>Î´</i>²H and <i>Î´</i>¹⁸O in streamflow and precipitation in Switzerland. Earth System Science Data, 2020, 12, 3057-3066.	9.9	0
20	Indexâ€Based Characterization and Quantification of Groundwater Dynamics. Water Resources Research, 2019, 55, 5575-5592.	4.2	33
21	Effects of univariate and multivariate bias correction on hydrological impact projections in alpine catchments. Hydrology and Earth System Sciences, 2019, 23, 1339-1354.	4.9	63
22	Repository of Drought Event Impacts Across the Danube Catchment Countries Between 1981 and 2016 Using Publicly Available Sources. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2019, 67, 925-938.	0.4	8
23	How well do meteorological indicators represent agricultural and forest drought across Europe?. Environmental Research Letters, 2018, 13, 034042.	5.2	107
24	Magic componentsâ€”why quantifying rain, snowmelt, and icemelt in river discharge is not easy. Hydrological Processes, 2018, 32, 160-166.	2.6	31
25	An assessment of trends and potential future changes in groundwater-baseflow drought based on catchment response times. Hydrology and Earth System Sciences, 2018, 22, 6209-6224.	4.9	40
26	The role of glacier changes and threshold definition in the characterisation of future streamflow droughts in glacierised catchments. Hydrology and Earth System Sciences, 2018, 22, 463-485.	4.9	33
27	Human influences on streamflow drought characteristics in England and Wales. Hydrology and Earth System Sciences, 2018, 22, 1051-1064.	4.9	65
28	The impact of the resolution of meteorological data sets on catchmentâ€scale precipitation and drought studies. International Journal of Climatology, 2018, 38, 3069-3081.	3.5	6
29	Technical note: Representing glacier geometry changes in a semi-distributed hydrological model. Hydrology and Earth System Sciences, 2018, 22, 2211-2224.	4.9	31
30	Natural and Human Influences on the Link Between Meteorological and Hydrological Drought Indices for a Large Set of Catchments in the Contiguous United States. Water Resources Research, 2018, 54, 6005-6023.	4.2	51
31	Catchment water storage variation with elevation. Hydrological Processes, 2017, 31, 2000-2015.	2.6	103
32	Comparison of different threshold level methods for drought propagation analysis in Germany. Hydrology Research, 2017, 48, 1311-1326.	2.7	58
33	Patterns in the linkage of water quantity and quality during lowâ€flows. Hydrological Processes, 2017, 31, 4195-4205.	2.6	12
34	Snow redistribution for the hydrological modeling of alpine catchments. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1232.	6.5	63
35	Climate-driven variability in the occurrence of major floods across North America and Europe. Journal of Hydrology, 2017, 552, 704-717.	5.4	122
36	Developing drought impact functions for drought risk management. Natural Hazards and Earth System Sciences, 2017, 17, 1947-1960.	3.6	51

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37	The EuropeanÂ2015 drought from a hydrological perspective. Hydrology and Earth System Sciences, 2017, 21, 3001-3024.	4.9	132
38	Estimating drought risk across Europe from reported drought impacts, drought indices, and vulnerability factors. Hydrology and Earth System Sciences, 2016, 20, 2779-2800.	4.9	126
39	Controls on hydrologic drought duration in near-natural streamflow in Europe and the USA. Hydrology and Earth System Sciences, 2016, 20, 4043-4059.	4.9	7
40	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. Hydrology and Earth System Sciences, 2016, 20, 3631-3650.	4.9	289
41	A quantitative analysis to objectively appraise drought indicators and model drought impacts. Hydrology and Earth System Sciences, 2016, 20, 2589-2609.	4.9	94
42	Impacts of European drought events: insights from an international database of text-based reports. Natural Hazards and Earth System Sciences, 2016, 16, 801-819.	3.6	187
43	Drought indicators revisited: the need for a wider consideration of environment and society. Wiley Interdisciplinary Reviews: Water, 2016, 3, 516-536.	6.5	161
44	Response to comment on â€˜Candidate Distributions for Climatological Drought Indices () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	3.5	42
45	Stakeholder Coinquiries on Drought Impacts, Monitoring, and Early Warning Systems. Bulletin of the American Meteorological Society, 2016, 97, ES217-ES220.	3.3	8
46	Hydrology needed to manage droughts: the 2015 European case. Hydrological Processes, 2016, 30, 3097-3104.	2.6	152
47	Drought in the Anthropocene. Nature Geoscience, 2016, 9, 89-91.	12.9	537
48	Candidate Distributions for Climatological Drought Indices (<scp>SPI</scp> and <scp>SPEI</scp>). International Journal of Climatology, 2015, 35, 4027-4040.	3.5	483
49	Is there a superior conceptual groundwater model structure for baseflow simulation?. Hydrological Processes, 2015, 29, 1301-1313.	2.6	26
50	Exploring the link between drought indicators and impacts. Natural Hazards and Earth System Sciences, 2015, 15, 1381-1397.	3.6	90
51	Attribution of European precipitation and temperature trends to changes in synoptic circulation. Hydrology and Earth System Sciences, 2015, 19, 3093-3107.	4.9	49
52	Towards pan-European drought risk maps: quantifying the link between drought indices and reported drought impacts. Environmental Research Letters, 2015, 10, 014008.	5.2	116
53	Modeling drought impact occurrence based on meteorological drought indices in Europe. Journal of Hydrology, 2015, 530, 37-50.	5.4	169
54	Fostering drought research and science-policy interfacing: Achievements of the DROUGHT-R&SPI project. , 2015, , 3-12.		1

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55	Large-scale analysis of changing frequencies of rain-on-snow events with flood-generation potential. Hydrology and Earth System Sciences, 2014, 18, 2695-2709.	4.9	89
56	Trends in groundwater levels in British Columbia. Canadian Water Resources Journal, 2014, 39, 15-31.	1.2	13
57	A drought index accounting for snow. Water Resources Research, 2014, 50, 7861-7872.	4.2	78
58	Spatial and temporal patterns of largeâ€scale droughts in Europe: Model dispersion and performance. Geophysical Research Letters, 2014, 41, 429-434.	4.0	63
59	Streamflow sensitivity to drought scenarios in catchments with different geology. Geophysical Research Letters, 2014, 41, 6174-6183.	4.0	82
60	The influence of decadal-scale variability on trends in long European streamflow records. Hydrology and Earth System Sciences, 2013, 17, 2717-2733.	4.9	113
61	Are streamflow recession characteristics really characteristic?. Hydrology and Earth System Sciences, 2013, 17, 817-828.	4.9	94
62	Comparing Large-Scale Hydrological Model Simulations to Observed Runoff Percentiles in Europe. Journal of Hydrometeorology, 2012, 13, 604-620.	1.9	135
63	Climate change and the institutional resilience of international river basins. Journal of Peace Research, 2012, 49, 193-209.	2.9	147
64	Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble. Hydrology and Earth System Sciences, 2012, 16, 2035-2047.	4.9	134
65	Evapotranspiration and land cover transitions: longâ€term watershed response in recovering forested ecosystems. Ecohydrology, 2012, 5, 721-732.	2.4	12
66	Climate change could alter the distribution of mountain pine beetle outbreaks in western Canada. Ecography, 2012, 35, 211-223.	4.5	122
67	Sensitivity of a data-driven soil water balance model to estimate summer evapotranspiration along a forest chronosequence. Hydrology and Earth System Sciences, 2011, 15, 3461-3473.	4.9	24
68	Low-frequency variability of European runoff. Hydrology and Earth System Sciences, 2011, 15, 2853-2869.	4.9	46
69	Comparison of hydrological model structures based on recession and low flow simulations. Hydrology and Earth System Sciences, 2011, 15, 3447-3459.	4.9	104
70	Largeâ€scale river flow archives: importance, current status and future needs. Hydrological Processes, 2011, 25, 1191-1200.	2.6	274
71	Spatial crossâ€correlation patterns of European low, mean and high flows. Hydrological Processes, 2011, 25, 1034-1045.	2.6	36
72	Streamflow Data from Small Basins: A Challenging Test to High-Resolution Regional Climate Modeling. Journal of Hydrometeorology, 2011, 12, 900-912.	1.9	41

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73	Streamflow trends in Europe: evidence from a dataset of near-natural catchments. Hydrology and Earth System Sciences, 2010, 14, 2367-2382.	4.9	370
74	Inter-comparison of weather and circulation type classifications for hydrological drought development. Physics and Chemistry of the Earth, 2010, 35, 507-515.	2.9	46
75	Derivation of melt factors from glacier mass-balance records in western Canada. Journal of Glaciology, 2009, 55, 123-130.	2.2	43
76	Glacier change in western North America: influences on hydrology, geomorphic hazards and water quality. Hydrological Processes, 2009, 23, 42-61.	2.6	278
77	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. Water Resources Research, 2009, 45, .	4.2	117
78	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. Ecography, 2008, 31, 348-358.	4.5	166
79	Coupled modelling of glacier and streamflow response to future climate scenarios. Water Resources Research, 2008, 44, .	4.2	199
80	The Processes, Patterns and Impacts of Low Flows Across Canada. Canadian Water Resources Journal, 2008, 33, 107-124.	1.2	50
81	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. Ecography, 2008, .	4.5	0
82	Influence of watershed glacier coverage on summer streamflow in British Columbia, Canada. Water Resources Research, 2006, 42, .	4.2	150
83	Comparison of approaches for spatial interpolation of daily air temperature in a large region with complex topography and highly variable station density. Agricultural and Forest Meteorology, 2006, 139, 224-236.	4.8	301
84	The role of synoptic-scale circulation in the linkage between large-scale oceanâ€“atmosphere indices and winter surface climate in British Columbia, Canada. International Journal of Climatology, 2006, 26, 541-560.	3.5	96
85	Synoptic sea-level pressure patterns generated by a general circulation model: comparison with types derived from NCEP/NCAR re-analysis and implications for downscaling. International Journal of Climatology, 2006, 26, 1727-1736.	3.5	29
86	Comparison of approaches for spatial interpolation of daily air temperature in a large region with complex topography and highly variable station density. Agricultural and Forest Meteorology, 2006, 139, 224-236.	4.8	115
87	Climatology of winter cold spells in relation to mountain pine beetle mortality in British Columbia, Canada. Climate Research, 2006, 32, 13-23.	1.1	62
88	Influence of Hydroclimatology and Socioeconomic Conditions on Water-Related International Relations. Water International, 2005, 30, 270-282.	1.0	21
89	Geography of international water conflict and cooperation: Data sets and applications. Water Resources Research, 2004, 40, .	4.2	84
90	Have streamflow droughts in Europe become more severe or frequent?. International Journal of Climatology, 2001, 21, 317-333.	3.5	302

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91	Assessment of the Vulnerability of a River System to Drought. Advances in Natural and Technological Hazards Research, 2000, , 209-219.	1.1	2
92	Linking streamflow drought to the occurrence of atmospheric circulation patterns. Hydrological Sciences Journal, 1999, 44, 467-482.	2.6	79
93	A prototype platform for water resources monitoring and early recognition of critical droughts in Switzerland. Proceedings of the International Association of Hydrological Sciences, 0, 364, 492-498.	1.0	14
94	The challenges of hydrological drought definition, quantification and communication: an interdisciplinary perspective. Proceedings of the International Association of Hydrological Sciences, 0, 383, 291-295.	1.0	20
95	Stress testing as complement to climate scenarios: recharge scenarios to quantify streamflow drought sensitivity. Proceedings of the International Association of Hydrological Sciences, 0, 383, 43-50.	1.0	7