

R A Woods

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5139759/publications.pdf>

Version: 2024-02-01

80
papers

9,713
citations

41344

49
h-index

69250

77
g-index

113
all docs

113
docs citations

113
times ranked

7801
citing authors

#	ARTICLE	IF	CITATIONS
1	An Objective Time-Series Analysis Method for Rainfall-Runoff Event Identification. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
2	A Practical, Objective, and Robust Technique to Directly Estimate Catchment Response Time. <i>Water Resources Research</i> , 2021, 57, e2020WR028201.	4.2	10
3	Including Regional Knowledge Improves Baseflow Signature Predictions in Large Sample Hydrology. <i>Water Resources Research</i> , 2021, 57, e2020WR028354.	4.2	30
4	How Do Climate and Catchment Attributes Influence Flood Generating Processes? A Large-Sample Study for 671 Catchments Across the Contiguous USA. <i>Water Resources Research</i> , 2021, 57, e2020WR028300.	4.2	46
5	TOSSH: A Toolbox for Streamflow Signatures in Hydrology. <i>Environmental Modelling and Software</i> , 2021, 138, 104983.	4.5	26
6	On doing hydrology with dragons: Realizing the value of perceptual models and knowledge accumulation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1550.	6.5	26
7	Event-based classification for global study of river flood generating processes. <i>Hydrological Processes</i> , 2020, 34, 1514-1529.	2.6	80
8	A Brief Analysis of Conceptual Model Structure Uncertainty Using 36 Models and 559 Catchments. <i>Water Resources Research</i> , 2020, 56, e2019WR025975.	4.2	72
9	Invigorating Hydrological Research Through Journal Publications. <i>Water Resources Research</i> , 2020, 56, .	4.2	5
10	Hydrological signatures describing the translation of climate seasonality into streamflow seasonality. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 561-580.	4.9	20
11	CAMELS-GB: hydrometeorological time series and landscape attributes for 671 catchments in Great Britain. <i>Earth System Science Data</i> , 2020, 12, 2459-2483.	9.9	87
12	DECIPHeR v1: Dynamic fluxEs and Connectivity for Predictions of Hydrology. <i>Geoscientific Model Development</i> , 2019, 12, 2285-2306.	3.6	51
13	Modular Assessment of Rainfall-Runoff Models Toolbox (MARRMoT) v1.2: an open-source, extendable framework providing implementations of 46 conceptual hydrologic models as continuous state-space formulations. <i>Geoscientific Model Development</i> , 2019, 12, 2463-2480.	3.6	74
14	Global bimodal precipitation seasonality: A systematic overview. <i>International Journal of Climatology</i> , 2019, 39, 558-567.	3.5	31
15	Is There a Baseflow Budyko Curve?. <i>Water Resources Research</i> , 2019, 55, 2838-2855.	4.2	45
16	Technical note: Inherent benchmark or not? Comparing Nash-Sutcliffe and Kling-Gupta efficiency scores. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4323-4331.	4.9	582
17	Simulating Runoff Under Changing Climatic Conditions: A Framework for Model Improvement. <i>Water Resources Research</i> , 2018, 54, 9812-9832.	4.2	58
18	A Quantitative Hydrological Climate Classification Evaluated With Independent Streamflow Data. <i>Water Resources Research</i> , 2018, 54, 5088-5109.	4.2	100

#	ARTICLE	IF	CITATIONS
19	A rule based quality control method for hourly rainfall data and a 1â€km resolution gridded hourly rainfall dataset for Great Britain: CEH-GEAR1hr. <i>Journal of Hydrology</i> , 2018, 564, 930-943.	5.4	58
20	A Global Assessment of Runoff Sensitivity to Changes in Precipitation, Potential Evaporation, and Other Factors. <i>Water Resources Research</i> , 2017, 53, 8475-8486.	4.2	125
21	Recent changes in extreme floods across multiple continents. <i>Environmental Research Letters</i> , 2017, 12, 114035.	5.2	102
22	Scaling, similarity, and the fourth paradigm for hydrology. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3701-3713.	4.9	63
23	The evolution of process-based hydrologic models: historical challenges and the collective quest for physical realism. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3427-3440.	4.9	177
24	Scaling, Similarity, and the Fourth Paradigm for Hydrology. , 2017, 21, 3701-3713.		7
25	mizuRoute version 1: a river network routing tool for a continental domain water resources applications. <i>Geoscientific Model Development</i> , 2016, 9, 2223-2238.	3.6	42
26	Streamflow sensitivity to water storage changes across Europe. <i>Geophysical Research Letters</i> , 2016, 43, 1980-1987.	4.0	59
27	Dominant flood generating mechanisms across the United States. <i>Geophysical Research Letters</i> , 2016, 43, 4382-4390.	4.0	313
28	Contributing factors for drought in United States forest ecosystems under projected future climates and their uncertainty. <i>Forest Ecology and Management</i> , 2016, 380, 299-308.	3.2	43
29	A simple framework to quantitatively describe monthly precipitation and temperature climatology. <i>International Journal of Climatology</i> , 2016, 36, 3161-3174.	3.5	27
30	A novel framework for discharge uncertainty quantification applied to 500 <sc>UK</sc> gauging stations. <i>Water Resources Research</i> , 2015, 51, 5531-5546.	4.2	159
31	Stormflow generation: A metaâ€analysis of field evidence from small, forested catchments. <i>Water Resources Research</i> , 2015, 51, 3730-3753.	4.2	38
32	A unified approach for processâ€based hydrologic modeling: 2. Model implementation and case studies. <i>Water Resources Research</i> , 2015, 51, 2515-2542.	4.2	173
33	A unified approach for processâ€based hydrologic modeling: 1. Modeling concept. <i>Water Resources Research</i> , 2015, 51, 2498-2514.	4.2	354
34	Spatial variability of hydrological processes and model structure diagnostics in a 50â€km ² catchment. <i>Hydrological Processes</i> , 2014, 28, 4896-4913.	2.6	64
35	Comparing and combining physically-based and empirically-based approaches for estimating the hydrology of ungauged catchments. <i>Journal of Hydrology</i> , 2014, 508, 227-239.	5.4	105
36	Patterns of similarity of seasonal water balances: A window into streamflow variability over a range of time scales. <i>Water Resources Research</i> , 2014, 50, 5638-5661.	4.2	167

#	ARTICLE	IF	CITATIONS
37	A precipitation shift from snow towards rain leads to a decrease in streamflow. <i>Nature Climate Change</i> , 2014, 4, 583-586.	18.8	545
38	A decade of Predictions in Ungauged Basins (PUB)â€”a review. <i>Hydrological Sciences Journal</i> , 2013, 58, 1198-1255.	2.6	821
39	Prediction of low flows in ungauged basins. , 2013, , 163-188.		19
40	Prediction of annual runoff in ungauged basins. , 2013, , 70-101.		14
41	An analytical model for soil-atmosphere feedback. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1863-1878.	4.9	11
42	Representing spatial variability of snow water equivalent in hydrologic and landâ€”surface models: A review. <i>Water Resources Research</i> , 2011, 47, .	4.2	275
43	Climate change and mountain water resources: overview and recommendations for research, management and policy. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 471-504.	4.9	476
44	Rainfall uncertainty in hydrological modelling: An evaluation of multiplicative error models. <i>Journal of Hydrology</i> , 2011, 400, 83-94.	5.4	195
45	Hydrological field data from a modeller's perspective: Part 1. Diagnostic tests for model structure. <i>Hydrological Processes</i> , 2011, 25, 511-522.	2.6	121
46	Hydrological field data from a modeller's perspective: Part 2: processâ€”based evaluation of model hypotheses. <i>Hydrological Processes</i> , 2011, 25, 523-543.	2.6	103
47	Hillslope threshold response to rainfall: (1) A field based forensic approach. <i>Journal of Hydrology</i> , 2010, 393, 65-76.	5.4	161
48	Quantifying space-time dynamics of flood event types. <i>Journal of Hydrology</i> , 2010, 394, 213-229.	5.4	82
49	Generalised synthesis of spaceâ€”time variability in flood response: An analytical framework. <i>Journal of Hydrology</i> , 2010, 394, 198-212.	5.4	67
50	Analytical assessment and parameter estimation of a low-dimensional groundwater model. <i>Journal of Hydrology</i> , 2009, 377, 143-154.	5.4	54
51	Consistency between hydrological models and field observations: linking processes at the hillslope scale to hydrological responses at the watershed scale. <i>Hydrological Processes</i> , 2009, 23, 311-319.	2.6	128
52	Analytical model of seasonal climate impacts on snow hydrology: Continuous snowpacks. <i>Advances in Water Resources</i> , 2009, 32, 1465-1481.	3.8	90
53	The Selwyn River of New Zealand: a benchmark system for alluvial plain rivers. <i>River Research and Applications</i> , 2008, 24, 1-21.	1.7	54
54	Increased flexibility in base flow modelling using a power law transmissivity profile. <i>Hydrological Processes</i> , 2008, 22, 2667-2671.	2.6	23

#	ARTICLE	IF	CITATIONS
55	Comment on "C.-P. Tung, N.-M. Hong, C.-H. Chen and Y.-C. Tan, Regional daily baseflow prediction. <i>Hydrological Processes</i> , 18(2004) 2147-2164". <i>Hydrological Processes</i> , 2008, 22, 883-886.	2.6	4
56	Hydrological data assimilation with the ensemble Kalman filter: Use of streamflow observations to update states in a distributed hydrological model. <i>Advances in Water Resources</i> , 2008, 31, 1309-1324.	3.8	395
57	Framework for Understanding Structural Errors (FUSE): A modular framework to diagnose differences between hydrological models. <i>Water Resources Research</i> , 2008, 44, .	4.2	461
58	Choosing Regional Futures: Challenges and choices in building integrated models to support long-term regional planning in New Zealand*. <i>Regional Science Policy and Practice</i> , 2008, 1, 85-108.	1.6	32
59	Spatial Interpolation of Daily Potential Evapotranspiration for New Zealand Using a Spline Model. <i>Journal of Hydrometeorology</i> , 2007, 8, 430-438.	1.9	64
60	Catchment Classification and Hydrologic Similarity. <i>Geography Compass</i> , 2007, 1, 901-931.	2.7	602
61	Localized erosion affects national carbon budget. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	35
62	Improved eco-hydrological classification of rivers. <i>River Research and Applications</i> , 2005, 21, 609-628.	1.7	101
63	Scale and scaling in hydrology. <i>Hydrological Processes</i> , 2004, 18, 1369-1371.	2.6	29
64	Application of TOPNET in the distributed model intercomparison project. <i>Journal of Hydrology</i> , 2004, 298, 178-201.	5.4	104
65	Predicting space-time variability of hourly streamflow and the role of climate seasonality: Mahurangi Catchment, New Zealand. <i>Hydrological Processes</i> , 2003, 17, 2171-2193.	2.6	27
66	The relative roles of climate, soil, vegetation and topography in determining seasonal and long-term catchment dynamics. <i>Advances in Water Resources</i> , 2003, 26, 295-309.	3.8	77
67	Dominant physical controls on hourly flow predictions and the role of spatial variability: Mahurangi catchment, New Zealand. <i>Advances in Water Resources</i> , 2003, 26, 219-235.	3.8	31
68	Spatial distribution of soil moisture over 6 and 30cm depth, Mahurangi river catchment, New Zealand. <i>Journal of Hydrology</i> , 2003, 276, 254-274.	5.4	88
69	Climate and landscape controls on water balance model complexity over changing timescales. <i>Water Resources Research</i> , 2002, 38, 50-1-50-17.	4.2	152
70	Ecophysiology of Wetland Plant Roots: A Modelling Comparison of Aeration in Relation to Species Distribution. <i>Annals of Botany</i> , 2000, 86, 675-685.	2.9	100
71	A synthesis of space-time variability in storm response: Rainfall, runoff generation, and routing. <i>Water Resources Research</i> , 1999, 35, 2469-2485.	4.2	112
72	Modeling the spatial variability of subsurface runoff using a topographic index. <i>Water Resources Research</i> , 1997, 33, 1061-1073.	4.2	69

#	ARTICLE	IF	CITATIONS
73	A connection between topographically driven runoff generation and channel network structure. <i>Water Resources Research</i> , 1997, 33, 2939-2950.	4.2	40
74	Variable bucket representation of TOPMODEL and investigation of the effects of rainfall heterogeneity. , 1997, 11, 1307-1330.		25
75	Investigating the representative elementary area concept: An approach based on field data. <i>Hydrological Processes</i> , 1995, 9, 291-312.	2.6	89
76	Predicting catchment-scale soil moisture status with limited field measurements. <i>Hydrological Processes</i> , 1995, 9, 445-467.	2.6	28
77	Evaluation of the effects of general circulation models' subgrid variability and patchiness of rainfall and soil moisture on land surface water balance fluxes. <i>Hydrological Processes</i> , 1995, 9, 697-717.	2.6	46
78	Universities and schools offering post-secondary programs related to the forest sector. <i>Forestry Chronicle</i> , 1991, 67, 378-383.	0.6	0
79	Closure to "Improved Fitting for Three-Parameter Muskingum Procedure" by Terence O'Donnell, Charles P. Pearson, and Ross A. Woods (May, 1988, Vol. 114, No. 5). <i>Journal of Hydraulic Engineering</i> , 1990, 116, 1057-1058.	1.5	0
80	Improved Fitting for Three-Parameter Muskingum Procedure. <i>Journal of Hydraulic Engineering</i> , 1988, 114, 516-528.	1.5	19