H E Beck

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8403925/publications.pdf Version: 2024-02-01

		87888	102487
68	11,674	38	66
papers	citations	h-index	g-index
122	122	122	12439
all docs	docs citations	times ranked	citing authors

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#	Article	IF	CITATIONS
1	Present and future Köppen-Geiger climate classification maps at 1-km resolution. Scientific Data, 2018, 5, 180214.	5.3	3,005
2	GLEAMÂv3: satellite-based land evaporation and root-zone soil moisture. Geoscientific Model Development, 2017, 10, 1903-1925.	3.6	1,352
3	The Millennium Drought in southeast Australia (2001–2009): Natural and human causes and implications for water resources, ecosystems, economy, and society. Water Resources Research, 2013, 49, 1040-1057.	4.2	977
4	MSWEP: 3-hourly 0.25° global gridded precipitation (1979–2015) by merging gauge, satellite, and reanalysis data. Hydrology and Earth System Sciences, 2017, 21, 589-615.	4.9	742
5	MSWEP V2 Global 3-Hourly 0.1° Precipitation: Methodology and Quantitative Assessment. Bulletin of the American Meteorological Society, 2019, 100, 473-500.	3.3	592
6	Global-scale evaluation of 22 precipitation datasets using gauge observations and hydrological modeling. Hydrology and Earth System Sciences, 2017, 21, 6201-6217.	4.9	541
7	Daily evaluation of 26 precipitation datasets using Stage-IV gauge-radar data for the CONUS. Hydrology and Earth System Sciences, 2019, 23, 207-224.	4.9	325
8	Global evaluation of four AVHRR–NDVI data sets: Intercomparison and assessment against Landsat imagery. Remote Sensing of Environment, 2011, 115, 2547-2563.	11.0	273
9	El Niño–La Niña cycle and recent trends in continental evaporation. Nature Climate Change, 2014, 4, 122-126.	18.8	254
10	Satellite Remote Sensing for Water Resources Management: Potential for Supporting Sustainable Development in Dataâ€Poor Regions. Water Resources Research, 2018, 54, 9724-9758.	4.2	247
11	Globalâ€scale regionalization of hydrologic model parameters. Water Resources Research, 2016, 52, 3599-3622.	4.2	241
12	Global patterns in base flow index and recession based on streamflow observations from 3394 catchments. Water Resources Research, 2013, 49, 7843-7863.	4.2	200
13	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. Water Resources Research, 2019, 55, 6499-6516.	4.2	175
14	A global water resources ensemble of hydrological models: the eartH2Observe Tier-1 dataset. Earth System Science Data, 2017, 9, 389-413.	9.9	169
15	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors. Hydrology and Earth System Sciences, 2021, 25, 17-40.	4.9	156
16	Global evaluation of runoff from 10 state-of-the-art hydrological models. Hydrology and Earth System Sciences, 2017, 21, 2881-2903.	4.9	146
17	Global Maps of Streamflow Characteristics Based on Observations from Several Thousand Catchments*. Journal of Hydrometeorology, 2015, 16, 1478-1501.	1.9	136
18	RF-MEP: A novel Random Forest method for merging gridded precipitation products and ground-based measurements. Remote Sensing of Environment, 2020, 239, 111606.	11.0	135

Н Е ВЕСК

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19	Global analysis of seasonal streamflow predictability using an ensemble prediction system and observations from 6192 small catchments worldwide. Water Resources Research, 2013, 49, 2729-2746.	4.2	105
20	Bias Correction of Global High-Resolution Precipitation Climatologies Using Streamflow Observations from 9372 Catchments. Journal of Climate, 2020, 33, 1299-1315.	3.2	94
21	A Climate Data Record (CDR) for the global terrestrial water budget: 1984–2010. Hydrology and Earth System Sciences, 2018, 22, 241-263.	4.9	91
22	Calibration of the Global Flood Awareness System (GloFAS) using daily streamflow data. Journal of Hydrology, 2018, 566, 595-606.	5.4	90
23	River gauging at global scale using optical and passive microwave remote sensing. Water Resources Research, 2016, 52, 6404-6418.	4.2	87
24	The impact of forest regeneration on streamflow in 12 mesoscale humid tropical catchments. Hydrology and Earth System Sciences, 2013, 17, 2613-2635.	4.9	85
25	Improving Curve Number Based Storm Runoff Estimates Using Soil Moisture Proxies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 250-259.	4.9	84
26	The impact of lake and reservoir parameterization on global streamflow simulation. Journal of Hydrology, 2017, 548, 552-568.	5.4	82
27	Longâ€ŧerm CO ₂ fertilization increases vegetation productivity and has little effect on hydrological partitioning in tropical rainforests. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2125-2140.	3.0	71
28	From calibration to parameter learning: Harnessing the scaling effects of big data in geoscientific modeling. Nature Communications, 2021, 12, 5988.	12.8	68
29	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
30	Combining hyper-resolution land surface modeling with SMAP brightness temperatures to obtain 30-m soil moisture estimates. Remote Sensing of Environment, 2020, 242, 111740.	11.0	59
31	Disconnection Between Trends of Atmospheric Drying and Continental Runoff. Water Resources Research, 2018, 54, 4700-4713.	4.2	58
32	Assessing the Steady‣tate Assumption in Water Balance Calculation Across Global Catchments. Water Resources Research, 2020, 56, e2020WR027392.	4.2	52
33	Filling the gaps: Calibrating a rainfall-runoff model using satellite-derived surface water extent. Remote Sensing of Environment, 2015, 171, 118-131.	11.0	51
34	Assessing placement bias of the global river gauge network. Nature Sustainability, 2022, 5, 586-592.	23.7	51
35	A Geospatial Assessment of Small-Scale Hydropower Potential in Sub-Saharan Africa. Energies, 2018, 11, 3100.	3.1	44
36	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics, Water Resources Research, 2019, 55, 7784-7803	4.2	44

Н Е ВЕСК

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37	Global Fully Distributed Parameter Regionalization Based on Observed Streamflow From 4,229 Headwater Catchments. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031485.	3.3	44
38	Global 5 km resolution estimates of secondary evaporation including irrigation through satellite data assimilation. Hydrology and Earth System Sciences, 2018, 22, 4959-4980.	4.9	38
39	FLO1K, global maps of mean, maximum and minimum annual streamflow at 1 km resolution from 1960 through 2015. Scientific Data, 2018, 5, 180052.	5.3	37
40	Uncertainty of modelled flow regime for flow-ecological assessment in Southern Europe. Science of the Total Environment, 2018, 615, 1028-1047.	8.0	35
41	Linear Optimal Runoff Aggregate (LORA): a global gridded synthesis runoff product. Hydrology and Earth System Sciences, 2019, 23, 851-870.	4.9	35
42	What is the hydrologically effective area of a catchment?. Environmental Research Letters, 2020, 15, 104024.	5.2	33
43	MSWX: Global 3-Hourly 0.1° Bias-Corrected Meteorological Data Including Near-Real-Time Updates and Forecast Ensembles. Bulletin of the American Meteorological Society, 2022, 103, E710-E732.	3.3	30
44	Exploring the merging of the global land evaporation WACMOS-ET products based on local tower measurements. Hydrology and Earth System Sciences, 2018, 22, 4513-4533.	4.9	28
45	Global Reach-Level 3-Hourly River Flood Reanalysis (1980–2019). Bulletin of the American Meteorological Society, 2021, 102, E2086-E2105.	3.3	25
46	Reanalysis in Earth System Science: Toward Terrestrial Ecosystem Reanalysis. Reviews of Geophysics, 2021, 59, e2020RG000715.	23.0	24
47	Global-Scale Evaluation of 22 Precipitation Datasets Using Gauge Observations and Hydrological Modeling. Advances in Global Change Research, 2020, , 625-653.	1.6	24
48	SMAP-HydroBlocks, a 30-m satellite-based soil moisture dataset for the conterminous US. Scientific Data, 2021, 8, 264.	5.3	24
49	Field-scale soil moisture bridges the spatial-scale gap between drought monitoring and agricultural yields. Hydrology and Earth System Sciences, 2021, 25, 1827-1847.	4.9	23
50	Global satellite-based river gauging and the influence of river morphology on its application. Remote Sensing of Environment, 2020, 239, 111629.	11.0	21
51	Satellite Flood Inundation Assessment and Forecast Using SMAP and Landsat. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6707-6715.	4.9	20
52	On the selection of precipitation products for the regionalisation of hydrological model parameters. Hydrology and Earth System Sciences, 2021, 25, 5805-5837.	4.9	17
53	A Vectorâ€Based River Routing Model for Earth System Models: Parallelization and Global Applications. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002434.	3.8	16
54	Global Evaluation of Seasonal Precipitation and Temperature Forecasts from NMME. Journal of Hydrometeorology, 2020, 21, 2473-2486.	1.9	15

Н Е ВЕСК

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55	Remotely sensed reservoir water storage dynamicsÂ(1984–2015) and the influence of climate variability and management at a global scale. Hydrology and Earth System Sciences, 2022, 26, 3785-3803.	4.9	15
56	PPDIST, global 0.1° daily and 3-hourly precipitation probability distribution climatologies for 1979–2018. Scientific Data, 2020, 7, 302.	5.3	12
57	Low and contrasting impacts of vegetation CO ₂ fertilization on global terrestrial runoff over 1982–2010: accounting for aboveground and belowground vegetation–CO ₂ effects. Hydrology and Earth System Sciences, 2021. 25. 3411-3427.	4.9	11
58	Central American mountains inhibit eastern North Pacific seasonal tropical cyclone activity. Nature Communications, 2021, 12, 4422.	12.8	10
59	Impacts of <scp>El Niño</scp> –southern oscillation on global runoff: Characteristic signatures and potential mechanisms. Hydrological Processes, 2021, 35, e14367.	2.6	7
60	Reconciling historical changes in the hydrological cycle over land. Npj Climate and Atmospheric Science, 2022, 5, .	6.8	7
61	Divergent negative spring vegetation and summer runoff patterns and their driving mechanisms in natural ecosystems of northern latitudes. Journal of Hydrology, 2021, 592, 125848.	5.4	6
62	Assessment of Precipitation Error Propagation in Discharge Simulations over the Contiguous United States. Journal of Hydrometeorology, 2021, , .	1.9	6
63	Performance of Stateâ€ofâ€theâ€Art C3S European Seasonal Climate Forecast Models for Mean and Extreme Precipitation Over Africa. Water Resources Research, 2022, 58, .	4.2	6
64	Synergistic Satellite Assessment of Global Vegetation Health in Relation to ENSOâ€Induced Droughts and Pluvials. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006006.	3.0	4
65	Model cascade from meteorological drivers to river flood hazard: flood-cascade v1.0. Geoscientific Model Development, 2021, 14, 4865-4890.	3.6	4
66	Satellite Flood Assessment and Forecasts from SMAP and Landsat. , 2020, , .		3
67	Strengthening Flood and Drought Risk Management Tools for the Lake Chad Basin. , 2021, , 387-405.		2
68	Cyclones and Global Floods from an Observation-Simulation Evaluation: Contributions and Long-Term Changes. Water (Switzerland), 2021, 13, 2965.	2.7	0