

Oldrich Rakovec

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,031
citations

218677

26
h-index

361022

35
g-index

82
all docs

82
docs citations

82
times ranked

3658
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic warming exacerbates European soil moisture droughts. <i>Nature Climate Change</i> , 2018, 8, 421-426.	18.8	439
2	Advancing data assimilation in operational hydrologic forecasting: progresses, challenges, and emerging opportunities. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3863-3887.	4.9	350
3	Revisiting the recent European droughts from a long-term perspective. <i>Scientific Reports</i> , 2018, 8, 9499.	3.3	216
4	Increased future occurrences of the exceptional 2018â€“2019 Central European drought under global warming. <i>Scientific Reports</i> , 2020, 10, 12207.	3.3	207
5	Climate change alters low flows in Europe under global warming of 1.5, 2, and 3â€“Â°C. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1017-1032.	4.9	146
6	Distributed Evaluation of Local Sensitivity Analysis (DELSA), with application to hydrologic models. <i>Water Resources Research</i> , 2014, 50, 409-426.	4.2	123
7	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. <i>Journal of Hydrometeorology</i> , 2016, 17, 287-307.	1.9	120
8	On the choice of calibration metrics for â€œhigh-flowâ€•estimation using hydrologic models. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2601-2614.	4.9	110
9	Towards seamless largeâ€•domain parameter estimation for hydrologic models. <i>Water Resources Research</i> , 2017, 53, 8020-8040.	4.2	108
10	Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. <i>Environmental Research Letters</i> , 2018, 13, 014003.	5.2	104
11	Improving the realism of hydrologic model functioning through multivariate parameter estimation. <i>Water Resources Research</i> , 2016, 52, 7779-7792.	4.2	87
12	The rise of compound warm-season droughts in Europe. <i>Science Advances</i> , 2021, 7, .	10.3	83
13	State updating of a distributed hydrological model with Ensemble Kalman Filtering: effects of updating frequency and observation network density on forecast accuracy. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3435-3449.	4.9	81
14	Toward seamless hydrologic predictions across spatial scales. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4323-4346.	4.9	81
15	The 2018â€“2020 Multiâ€•Year Drought Sets a New Benchmark in Europe. <i>Earth's Future</i> , 2022, 10, .	6.3	71
16	Europe under multi-year droughts: how severe was the 2014â€“2018 drought period?. <i>Environmental Research Letters</i> , 2021, 16, 034062.	5.2	66
17	Computationally inexpensive identification of noninformative model parameters by sequential screening. <i>Water Resources Research</i> , 2015, 51, 6417-6441.	4.2	54
18	Hydrological Forecasts and Projections for Improved Decision-Making in the Water Sector in Europe. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2451-2472.	3.3	52

#	ARTICLE	IF	CITATIONS
19	On the curious case of the recent decade, mid-spring precipitation deficit in central Europe. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	51
20	Making the most out of a hydrological model data set: Sensitivity analyses to open the model blackâ€œbox. <i>Water Resources Research</i> , 2017, 53, 7933-7950.	4.2	50
21	Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication. <i>Geoscientific Model Development</i> , 2021, 14, 3843-3878.	3.6	41
22	Strong hydroclimatic controls on vulnerability to subsurface nitrate contamination across Europe. <i>Nature Communications</i> , 2020, 11, 6302.	12.8	40
23	On noise specification in data assimilation schemes for improved flood forecasting using distributed hydrological models. <i>Journal of Hydrology</i> , 2014, 519, 2707-2721.	5.4	37
24	Operational aspects of asynchronous filtering for flood forecasting. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2911-2924.	4.9	34
25	A Comprehensive Distributed Hydrological Modeling Intercomparison to Support Process Representation and Data Collection Strategies. <i>Water Resources Research</i> , 2019, 55, 990-1010.	4.2	34
26	Diagnostic Evaluation of Largeâ€œDomain Hydrologic Models Calibrated Across the Contiguous United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13991-14007.	3.3	29
27	A 250â€œYear European Drought Inventory Derived From Ensemble Hydrologic Modeling. <i>Geophysical Research Letters</i> , 2019, 46, 5909-5917.	4.0	28
28	Multimodel assessment of flood characteristics in four large river basins at global warming of 1.5, 2.0 and 3.0 K above the pre-industrial level. <i>Environmental Research Letters</i> , 2018, 13, 124005.	5.2	24
29	Generating spatial precipitation ensembles: impact of temporal correlation structure. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3419-3434.	4.9	20
30	Increasing footprint of climate warming on flash droughts occurrence in Europe. <i>Environmental Research Letters</i> , 2022, 17, 064017.	5.2	20
31	Projected changes in Rhine River flood seasonality under global warming. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2353-2371.	4.9	19
32	Flood spatial coherence, triggers, and performance in hydrological simulations: large-sample evaluation of four streamflow-calibrated models. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 105-119.	4.9	16
33	A drought monitoring tool for South Asia. <i>Environmental Research Letters</i> , 2021, 16, 054014.	5.2	15
34	Assessing the response of groundwater quantity and travel time distribution to 1.5, 2, and 3â€œ%âˆšC global warming in a mesoscale central German basin. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1511-1526.	4.9	13
35	Great Lakes Runoff Intercomparison Project Phase 3: Lake Erie (GRIP-E). <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, .	1.9	12
36	Assimilation of Streamflow Observations. , 2018, , 1-36.		2

#	ARTICLE	IF	CITATIONS
37	Assimilation of Streamflow Observations. , 2019, , 745-780.		1
38	Assimilation of Streamflow Observations. , 2018, , 1-36.		0