Oldrich Rakovec

List of Publications by Year
in descending order

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	The 2018â€“2020 Multiâ€Year Drought Sets a New Benchmark in Europe. Earth's Future, 2022, 10, .	6.3	71
2	Increasing footprint of climate warming on flash droughts occurrence in Europe. Environmental Research Letters, 2022, 17, 064017.	5.2	20
3	Flood spatial coherence, triggers, and performance in hydrological simulations: large-sample evaluation of four streamflow-calibrated models. Hydrology and Earth System Sciences, 2021, 25, 105-119.	4.9	16
4	The rise of compound warm-season droughts in Europe. Science Advances, 2021, 7, .	10.3	83
5	Europe under multi-year droughts: how severe was the 2014â€“2018 drought period?. Environmental Research Letters, 2021, 16, 034062.	5.2	66
6	A drought monitoring tool for South Asia. Environmental Research Letters, 2021, 16, 054014.	5.2	15
7	Projected changes in Rhine River flood seasonality under global warming. Hydrology and Earth System Sciences, 2021, 25, 2353-2371.	4.9	19
8	Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication. Geoscientific Model Development, 2021, 14, 3843-3878.	3.6	41
9	Great Lakes Runoff Intercomparison Project Phase 3: Lake Erie (GRIP-E). Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	12
10	Increased future occurrences of the exceptional 2018â€“2019 Central European drought under global warming. Scientific Reports, 2020, 10, 12207.	3.3	207
11	On the curious case of the recent decade, mid-spring precipitation deficit in central Europe. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	51
12	Strong hydroclimatic controls on vulnerability to subsurface nitrate contamination across Europe. Nature Communications, 2020, 11, 6302.	12.8	40
13	Assessing the response of groundwater quantity and travel time distribution to 1.5, 2, and 3â€‰Â°C global warming in a mesoscale central German basin. Hydrology and Earth System Sciences, 2020, 24, 1511-1526.	4.9	13
14	Hydrological Forecasts and Projections for Improved Decision-Making in the Water Sector in Europe. Bulletin of the American Meteorological Society, 2019, 100, 2451-2472.	3.3	52
15	On the choice of calibration metrics for â€œhigh-flowâ€•estimation using hydrologic models. Hydrology and Earth System Sciences, 2019, 23, 2601-2614.	4.9	110
16	A 250â€Year European Drought Inventory Derived From Ensemble Hydrologic Modeling. Geophysical Research Letters, 2019, 46, 5909-5917.	4.0	28
17	Diagnostic Evaluation of Largeâ€Domain Hydrologic Models Calibrated Across the Contiguous United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13991-14007.	3.3	29
18	A Comprehensive Distributed Hydrological Modeling Intercomparison to Support Process Representation and Data Collection Strategies. Water Resources Research, 2019, 55, 990-1010.	4.2	34

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19	Assimilation of Streamflow Observations. , 2019, , 745-780.		1
20	Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. Environmental Research Letters, 2018, 13, 014003.	5.2	104
21	Anthropogenic warming exacerbates European soil moisture droughts. Nature Climate Change, 2018, 8, 421-426.	18.8	439
22	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. Environmental Research Letters, 2018, 13, 124005.	5.2	24
23	Revisiting the recent European droughts from a long-term perspective. Scientific Reports, 2018, 8, 9499.	3.3	216
24	Climate change alters low flows in Europe under global warming of 1.5, 2, and 3â€Â°C. Hydrology and Earth System Sciences, 2018, 22, 1017-1032.	4.9	146
25	Assimilation of Streamflow Observations. , 2018, , 1-36.		2
26	Assimilation of Streamflow Observations. , 2018, , 1-36.		0
27	Towards seamless largeâ€domain parameter estimation for hydrologic models. Water Resources Research, 2017, 53, 8020-8040.	4.2	108
28	Making the most out of a hydrological model data set: Sensitivity analyses to open the model blackâ€box. Water Resources Research, 2017, 53, 7933-7950.	4.2	50
29	Toward seamless hydrologic predictions across spatial scales. Hydrology and Earth System Sciences, 2017, 21, 4323-4346.	4.9	81
30	Improving the realism of hydrologic model functioning through multivariate parameter estimation. Water Resources Research, 2016, 52, 7779-7792.	4.2	87
31	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. Journal of Hydrometeorology, 2016, 17, 287-307.	1.9	120
32	Computationally inexpensive identification of noninformative model parameters by sequential screening. Water Resources Research, 2015, 51, 6417-6441.	4.2	54
33	Operational aspects of asynchronous filtering for flood forecasting. Hydrology and Earth System Sciences, 2015, 19, 2911-2924.	4.9	34
34	On noise specification in data assimilation schemes for improved flood forecasting using distributed hydrological models. Journal of Hydrology, 2014, 519, 2707-2721.	5.4	37
35	Distributed Evaluation of Local Sensitivity Analysis (DELSA), with application to hydrologic models. Water Resources Research, 2014, 50, 409-426.	4.2	123
36	Advancing data assimilation in operational hydrologic forecasting: progresses, challenges, and emerging opportunities. Hydrology and Earth System Sciences, 2012, 16, 3863-3887.	4.9	350

#	Article	IF	Citations
37	State updating of a distributed hydrological model with Ensemble Kalman Filtering: effects of updating frequency and observation network density on forecast accuracy. Hydrology and Earth System Sciences, 2012, 16, 3435-3449.	4.9	81
38	Generating spatial precipitation ensembles: impact of temporal correlation structure. Hydrology and Earth System Sciences, 2012, 16, 3419-3434.	4.9	20