Ludovic Oudin

List of Publications by Year
in descending order

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58 papers	4,475 citations	172207 29 h-index	161609 54 g-index
62 all docs	62 docs citations	62 times ranked	4020 citing authors

#	Article	IF	Citations
1	Which potential evapotranspiration input for a lumped rainfallâ€“runoff model?. Journal of Hydrology, 2005, 303, 290-306.	2.3	740
2	Model Parameter Estimation Experiment (MOPEX): An overview of science strategy and major results from the second and third workshops. Journal of Hydrology, 2006, 320, 3-17.	2.3	537
3	Spatial proximity, physical similarity, regression and ungaged catchments: A comparison of regionalization approaches based on 913 French catchments. Water Resources Research, 2008, 44, .	1.7	396
4	Sequential assimilation of soil moisture and streamflow data in a conceptual rainfallâ€“runoff model. Journal of Hydrology, 2003, 280, 145-161.	2.3	254
5	Are seemingly physically similar catchments truly hydrologically similar?. Water Resources Research, 2010, 46, .	1.7	220
6	Hydrological model parameter instability: A source of additional uncertainty in estimating the hydrological impacts of climate change?. Journal of Hydrology, 2013, 476, 410-425.	2.3	188
7	Dynamic averaging of rainfall-runoff model simulations from complementary model parameterizations. Water Resources Research, 2006, 42, .	1.7	171
8	Impact of biased and randomly corrupted inputs on the efficiency and the parameters of watershed models. Journal of Hydrology, 2006, 320, 62-83.	2.3	154
9	Impact of limited streamflow data on the efficiency and the parameters of rainfallâ€”runoff models. Hydrological Sciences Journal, 2007, 52, 131-151.	1.2	145
10	Has land cover a significant impact on mean annual streamflow? An international assessment using 1508 catchments. Journal of Hydrology, 2008, 357, 303-316.	2.3	145
11	Which potential evapotranspiration input for a lumped rainfall-runoff model?. Journal of Hydrology, 2005, 303, 275-289.	2.3	141
12	HESS Opinions "Crash tests for a standardized evaluation of hydrological models". Hydrology and Earth System Sciences, 2009, 13, 1757-1764.	1.9	124
13	Hydrological impacts of urbanization at the catchment scale. Journal of Hydrology, 2018, 559, 774-786.	2.3	122
14	All that glitters is not gold: the case of calibrating hydrological models. Hydrological Processes, 2012, 26, 2206-2210.	1.1	84
15	Impact of river bed morphology on discharge and water levels simulated by a 1D Saintâ€“Venant hydraulic model at regional scale. Journal of Hydrology, 2013, 476, 169-177.	2.3	79
16	Trends in floods in West Africa: analysis based on 11 catchments in the region. Hydrology and Earth System Sciences, 2015, 19, 4707-4719.	1.9	68
17	Improvement of rainfall-runoff forecasts through mean areal rainfall optimization. Journal of Hydrology, 2006, 328, 717-725.	2.3	64
18	Which objective function to calibrate rainfallâ€“runoff models for low-flow index simulations?. Hydrological Sciences Journal, 2017, 62, 1149-1166.	1.2	62

#	Article	IF	Citations
19	What is really undermining hydrologic science today?. Hydrological Processes, 2007, 21, 2819-2822.	1.1	56
20	Impacts of Urbanization on Watershed Water Balances Across the Conterminous United States. Water Resources Research, 2020, 56, e2019WR026574.	1.7	53
21	Evaluation of Gridded Meteorological Datasets for Hydrological Modeling. Journal of Hydrometeorology, 2017, 18, 3027-3041.	0.7	51
22	Impact of climate change on the hydrogeology of two basins in northern France. Climatic Change, 2013, 121, 771-785.	1.7	48
23	Modeling the impact of in-stream water level fluctuations on stream-aquifer interactions at the regional scale. Journal of Hydrology, 2011, 400, 490-500.	2.3	44
24	Modelling the hydrological impacts of rural land use change. Hydrology Research, 2014, 45, 737-754.	1.1	44
25	Processâ€based interpretation of conceptual hydrological model performance using a multinational catchment set. Water Resources Research, 2017, 53, 7247-7268.	1.7	36
26	Estimating potential evapotranspiration without continuous daily data: possible errors and impact on water balance simulations. Hydrological Sciences Journal, 2010, 55, 209-222.	1.2	33
27	A multi-objective calibration framework for rainfallâ€“discharge models applied to karst systems. Journal of Hydrology, 2011, 400, 364-376.	2.3	33
28	Locating the sources of low-pass behavior within rainfall-runoff models. Water Resources Research, 2004, 40, .	1.7	32
29	Random Forest Ability in Regionalizing Hourly Hydrological Model Parameters. Water (Switzerland), 2019, 11, 1540.	1.2	31
30	Tilt and strain deformation induced by hydrologically active natural fractures: application to the tiltmeters installed in Sainte-Croix-aux-Mines observatory (France). Geophysical Journal International, 2009, 178, 667-677.	1.0	30
31	How should a rainfallâ€runoff model be parameterized in an almost ungauged catchment? A methodology tested on 609 catchments. Water Resources Research, 2016, 52, 4765-4784.	1.7	30
32	Transferring global uncertainty estimates from gauged to ungauged catchments. Hydrology and Earth System Sciences, 2015, 19, 2535-2546.	1.9	28
33	Landward Perspective of Coastal Eutrophication Potential Under Future Climate Change: The Seine River Case (France). Frontiers in Marine Science, 2018, 5, .	1.2	28
34	Seeking genericity in the selection of parameter sets: Impact on hydrological model efficiency. Water Resources Research, 2014, 50, 8356-8366.	1.7	22
35	Assimilation of soil moisture into hydrological models for flood forecasting: a variational approach. Canadian Journal of Remote Sensing, 2003, 29, 679-686.	1.1	21
36	Modeling approaches to detect land-use changes: Urbanization analyzed on a set of 43 US catchments. Journal of Hydrology, 2016, 538, 138-151.	2.3	20

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37	Ã‰volution potentielle du rÃ©gime des crues de la Seine sous changement climatique. Houille Blanche, 2011, 97, 51-57.	0.3	17
38	Assimilation of soil moisture into hydrological models: the sequential method. Canadian Journal of Remote Sensing, 2003, 29, 711-717.	1.1	11
39	Physically consistent conceptual rainfallâ€“runoff model for urbanized catchments. Journal of Hydrology, 2021, 599, 126394.	2.3	11
40	Unraveling the contribution of potential evaporation formulation to uncertainty under climate change. Hydrology and Earth System Sciences, 2022, 26, 2147-2159.	1.9	10
41	Data-set cleansing practices and hydrological regionalization: is there any valuable information among outliers?. Hydrological Sciences Journal, 2010, 55, 941-951.	1.2	9
42	Current runoff variations in the Macta catchment (Algeria): is climate the sole factor?. Hydrological Sciences Journal, 2015, 60, 1331-1339.	1.2	9
43	Should Bouchet's hypothesis be taken into account in rainfall-runoff modelling? An assessment over 308 catchments. Hydrological Processes, 2005, 19, 4093-4106.	1.1	8
44	Crossing the ruralâ€“urban boundary in hydrological modelling: How do conceptual rainfallâ€“runoff models handle the specificities of urbanized catchments?. Hydrological Processes, 2020, 34, 3331-3346.	1.1	8
45	Assessing rainfall global products reliability for water resource management in a tropical volcanic mountainous catchment. Journal of Hydrology: Regional Studies, 2022, 40, 101037.	1.0	8
46	Evapotranspiration in hydrological models under rising CO2: a jump into the unknown. Climatic Change, 2022, 172, .	1.7	8
47	Beyond Imperviousness: The Role of Antecedent Wetness in Runoff Generation in Urbanized Catchments. Water Resources Research, 2020, 56, e2020WR028060.	1.7	7
48	Understanding key factors controlling the duration of river flow intermittency: Case of Burkina Faso in West Africa. Journal of Hydrology: Regional Studies, 2021, 37, 100908.	1.0	6
49	Une formule simple dâ€™Ã©vapotranspiration potentielle pour la modÃ©lisation pluie-dÃ©bit Ã lâ€™Ã©chelle du bassin versant. Houille Blanche, 2006, 92, 113-120.	0.3	6
50	Investigating hydrological model versatility to simulate extreme flood events. Hydrological Sciences Journal, 2022, 67, 628-645.	1.2	6
51	The Quantile Solidarity approach for the parsimonious regionalization of flow duration curves. Hydrological Sciences Journal, 2017, 62, 1364-1380.	1.2	5
52	Evolution of Arctic rivers recession flow: Global assessment and data-based attribution analysis. Journal of Hydrology, 2021, 601, 126577.	2.3	5
53	Analysing the impact of urban areas patterns on the mean annual flow of 43 urbanized catchments. Proceedings of the International Association of Hydrological Sciences, 0, 370, 29-32.	1.0	3
54	Ã‰valuation de l'impact de l'urbanisation sur la rÃ©ponse hydrologique de 172 bassins versants amÃ©ricains. Houille Blanche, 2015, 101, 51-57.	0.3	2

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55	Ã‰volution, modÃ©lisation et cartographie des rendements de lâ€™oliveraie dans la province de Jaen en Espagne (1959-2018). Climatologie, 2021, 18, 4.	0.2	1
56	Recession Curve Analysis to Constrain Rainfall-Discharge Model Parameterisation. Environmental Earth Sciences, 2010, , 83-88.	0.1	0
57	Ã‰tude de la sensibilitÃ© des paramÃ¨tres d'un modÃ¨le Â«ruralÂ» sur des bassins versants urbanisÃ©s. Houille Blanche, 2019, 105, 35-43.	0.3	0
58	Physical Modelling To Remove Hydrological Effects At Local And Regional Scale: Application To The 100-M Hydrostatic Inclinometer In Sainte-Croix-Aux-Mines (France). International Association of Geodesy Symposia, 2009, , 533-539.	0.2	0