

Emanuel Dutra

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

7,456
citations

70961

41
h-index

60497

81
g-index

137
all docs

137
docs citations

137
times ranked

8121
citing authors

#	ARTICLE	IF	CITATIONS
1	ERA5-Land: a state-of-the-art global reanalysis dataset for land applications. <i>Earth System Science Data</i> , 2021, 13, 4349-4383.	3.7	1,083
2	ERA-Interim/Land: a global land surface reanalysis data set. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 389-407.	1.9	483
3	EC-Earth. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1357-1364.	1.7	474
4	GloFAS “ global ensemble streamflow forecasting and flood early warning. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1161-1175.	1.9	388
5	Evaluation of forest snow processes models (SnowMIP2). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	290
6	ERA-5 and ERA-Interim driven ISBA land surface model simulations: which one performs better?. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3515-3532.	1.9	243
7	An Improved Snow Scheme for the ECMWF Land Surface Model: Description and Offline Validation. <i>Journal of Hydrometeorology</i> , 2010, 11, 899-916.	0.7	221
8	Deriving global flood hazard maps of fluvial floods through a physical model cascade. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4143-4156.	1.9	175
9	Stochastic representations of model uncertainties at ECMWF: state of the art and future vision. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2315-2339.	1.0	170
10	A global water resources ensemble of hydrological models: the earth2Observe Tier-1 dataset. <i>Earth System Science Data</i> , 2017, 9, 389-413.	3.7	169
11	Global evaluation of runoff from 10 state-of-the-art hydrological models. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2881-2903.	1.9	146
12	Evaluation of global precipitation data sets over the Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	144
13	Evaluation of snow depth and snow cover over the Tibetan Plateau in global reanalyses using in situ and satellite remote sensing observations. <i>Cryosphere</i> , 2019, 13, 2221-2239.	1.5	144
14	Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 776-785.	1.7	142
15	The credibility challenge for global fluvial flood risk analysis. <i>Environmental Research Letters</i> , 2016, 11, 094014.	2.2	139
16	The 2010–2011 drought in the Horn of Africa in ECMWF reanalysis and seasonal forecast products. <i>International Journal of Climatology</i> , 2013, 33, 1720-1729.	1.5	119
17	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018, 11, 5027-5049.	1.3	119
18	Natural land carbon dioxide exchanges in the ECMWF integrated forecasting system: Implementation and offline validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5923-5946.	1.2	113

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19	Comparison of different evaporation estimates over the African continent. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 193-212.	1.9	106
20	On the contribution of lakes in predicting near-surface temperature in a global weather forecasting model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 15829.	0.8	103
21	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , 2018, 10, 2038.	1.8	95
22	Analysis of the water level dynamics simulated by a global river model: A case study in the Amazon River. <i>Water Resources Research</i> , 2012, 48, .	1.7	94
23	Forecasting droughts in East Africa. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 611-620.	1.9	93
24	Seasonal forecasts of droughts in African basins using the Standardized Precipitation Index. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2359-2373.	1.9	84
25	Global forecasting of thermal health hazards: the skill of probabilistic predictions of the Universal Thermal Climate Index (UTCI). <i>International Journal of Biometeorology</i> , 2015, 59, 311-323.	1.3	79
26	A revised land hydrology in the ECMWF model: a step towards daily water flux prediction in a fully closed water cycle. <i>Hydrological Processes</i> , 2011, 25, 1046-1054.	1.1	77
27	Comparison of drought indicators derived from multiple data sets over Africa. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1625-1640.	1.9	72
28	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 2586-2614.	0.7	66
29	Hydrological drought forecasting and skill assessment for the Limpopo River basin, southern Africa. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1695-1711.	1.9	66
30	Verification of Land-Atmosphere Coupling in Forecast Models, Reanalyses, and Land Surface Models Using Flux Site Observations. <i>Journal of Hydrometeorology</i> , 2018, 19, 375-392.	0.7	66
31	The synergy between drought and extremely hot summers in the Mediterranean. <i>Environmental Research Letters</i> , 2019, 14, 014011.	2.2	60
32	Global meteorological drought – Part 2: Seasonal forecasts. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2669-2678.	1.9	59
33	Impact of land-surface initialization on sub-seasonal to seasonal forecasts over Europe. <i>Climate Dynamics</i> , 2016, 47, 919-935.	1.7	59
34	Complexity of Snow Schemes in a Climate Model and Its Impact on Surface Energy and Hydrology. <i>Journal of Hydrometeorology</i> , 2012, 13, 521-538.	0.7	57
35	Assimilation of surface albedo and vegetation states from satellite observations and their impact on numerical weather prediction. <i>Remote Sensing of Environment</i> , 2015, 163, 111-126.	4.6	57
36	Impact of springtime Himalayan-Tibetan Plateau snowpack on the onset of the Indian summer monsoon in coupled seasonal forecasts. <i>Climate Dynamics</i> , 2016, 47, 2709-2725.	1.7	53

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37	The potential value of seasonal forecasts in a changing climate in southern Africa. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1525-1538.	1.9	51
38	Cold Bias of ERA5 Summertime Daily Maximum Land Surface Temperature over Iberian Peninsula. <i>Remote Sensing</i> , 2019, 11, 2570.	1.8	49
39	Land-atmosphere coupling associated with snow cover. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	48
40	ERA-40 reanalysis hydrological applications in the characterization of regional drought. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	47
41	Drought and food security – Improving decision-support via new technologies and innovative collaboration. <i>Global Food Security</i> , 2015, 4, 51-55.	4.0	46
42	Improving Weather Predictability by Including Land Surface Model Parameter Uncertainty. <i>Monthly Weather Review</i> , 2016, 144, 1551-1569.	0.5	44
43	Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2577-2586.	1.9	43
44	Technical Note: Comparing and ranking soil drought indices performance over Europe, through remote-sensing of vegetation. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 271-277.	1.9	41
45	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
46	Monitoring and Forecasting the Impact of the 2018 Summer Heatwave on Vegetation. <i>Remote Sensing</i> , 2019, 11, 520.	1.8	40
47	Advancing land surface model development with satellite-based Earth observations. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2483-2495.	1.9	39
48	Scientific and Human Errors in a Snow Model Intercomparison. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E61-E79.	1.7	38
49	Assessment of precipitation error propagation in multi-model global water resource reanalysis. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1973-1994.	1.9	37
50	Global meteorological drought – Part 1: Probabilistic monitoring. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2657-2667.	1.9	36
51	Soil temperature at ECMWF: An assessment using ground-based observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1361-1373.	1.2	33
52	Eurasian snow depth in long-term climate reanalyses. <i>Cryosphere</i> , 2017, 11, 923-935.	1.5	33
53	Long Term Global Surface Soil Moisture Fields Using an SMOS-Trained Neural Network Applied to AMSR-E Data. <i>Remote Sensing</i> , 2016, 8, 959.	1.8	32
54	Impact of a Multi-Layer Snow Scheme on Near-Surface Weather Forecasts. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4687-4710.	1.3	32

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55	Environmental Lapse Rate for High-Resolution Land Surface Downscaling: An Application to ERA5. <i>Earth and Space Science</i> , 2020, 7, e2019EA000984.	1.1	32
56	Assessment of a full-field initialized decadal climate prediction system with the CMIP6 version of EC-Earth. <i>Earth System Dynamics</i> , 2021, 12, 173-196.	2.7	32
57	MSWX: Global 3-Hourly 0.1° Bias-Corrected Meteorological Data Including Near-Real-Time Updates and Forecast Ensembles. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E710-E732.	1.7	30
58	A biogenic CO ₂ flux adjustment scheme for the mitigation of large-scale biases in global atmospheric CO ₂ analyses and forecasts. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10399-10418.	1.9	27
59	Real-time correction of ERA-Interim monthly rainfall. <i>Geophysical Research Letters</i> , 2013, 40, 3750-3755.	1.5	25
60	Role of vegetation in representing land surface temperature in the CHTESSEL (CY45R1) and SURFEX-ISBA (v8.1) land surface models: a case study over Iberia. <i>Geoscientific Model Development</i> , 2020, 13, 3975-3993.	1.3	25
61	Building a Multimodel Flood Prediction System with the TIGGE Archive. <i>Journal of Hydrometeorology</i> , 2016, 17, 2923-2940.	0.7	23
62	ECLand: The ECMWF Land Surface Modelling System. <i>Atmosphere</i> , 2021, 12, 723.	1.0	23
63	Circulation weather types as a tool in atmospheric, climate, and environmental research. <i>Frontiers in Environmental Science</i> , 2015, 3, .	1.5	22
64	On the numerical stability of surface-atmosphere coupling in weather and climate models. <i>Geoscientific Model Development</i> , 2017, 10, 977-989.	1.3	21
65	Robustness of Process-Based versus Data-Driven Modeling in Changing Climatic Conditions. <i>Journal of Hydrometeorology</i> , 2020, 21, 1929-1944.	0.7	21
66	The extreme forecast index at the seasonal scale. <i>Atmospheric Science Letters</i> , 2013, 14, 256-262.	0.8	18
67	Data assimilation for continuous global assessment of severe conditions over terrestrial surfaces. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4291-4316.	1.9	18
68	Upgrading Land-Cover and Vegetation Seasonality in the ECMWF Coupled System: Verification With FLUXNET Sites, METEOSAT Satellite Land Surface Temperatures, and ERA5 Atmospheric Reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034163.	1.2	17
69	Modeling Surface Runoff and Water Fluxes over Contrasted Soils in the Pastoral Sahel: Evaluation of the ALMIP2 Land Surface Models over the Gourma Region in Mali. <i>Journal of Hydrometeorology</i> , 2017, 18, 1847-1866.	0.7	15
70	Snow cover duration trends observed at sites and predicted by multiple models. <i>Cryosphere</i> , 2020, 14, 4687-4698.	1.5	14
71	Streamflows over a West African Basin from the ALMIP2 Model Ensemble. <i>Journal of Hydrometeorology</i> , 2017, 18, 1831-1845.	0.7	13
72	Sub-seasonal to Seasonal Prediction of Weather Extremes. , 2019, , 365-386.		13

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73	Seasonal Drought Forecasting for Latin America Using the ECMWF S4 Forecast System. <i>Climate</i> , 2018, 6, 48.	1.2	10
74	Sensitivity of Surface Fluxes in the ECMWF Land Surface Model to the Remotely Sensed Leaf Area Index and Root Distribution: Evaluation with Tower Flux Data. <i>Atmosphere</i> , 2020, 11, 1362.	1.0	8
75	Integrating Reanalysis and Satellite Cloud Information to Estimate Surface Downward Long-Wave Radiation. <i>Remote Sensing</i> , 2022, 14, 1704.	1.8	8
76	Speed-up of the Madeira tip jets in the ERA5 climate highlights the decadal variability of the Atlantic subtropics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 679-690.	1.0	7
77	Spring snow albedo feedback over northern Eurasia: Comparing in situ measurements with reanalysis products. <i>Cryosphere</i> , 2018, 12, 1887-1898.	1.5	5
78	Predictive skill for atmospheric rivers in the western Iberian Peninsula. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 877-888.	1.5	5
79	Late Spring and Summer Subseasonal forecasts in the Northern Hemisphere midlatitudes: biases and skill in the ECMWF model. <i>Monthly Weather Review</i> , 2021, , .	0.5	2
80	Trends, variability and predictive skill of the ocean heat content in North Atlantic: an analysis with the EC-Earth3 model. <i>Climate Dynamics</i> , 2022, 58, 1311-1328.	1.7	2
81	Corrigendum to "Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin" published in <i>Hydrol. Earth Syst. Sci.</i> , 19, 2577-2586, 2015. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2637-2637.	1.9	0
82	GABLS4 intercomparison of snow models at Dome C in Antarctica. <i>Cryosphere</i> , 2022, 16, 2183-2202.	1.5	0