Gianpaolo Balsamo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126	29,533	52	1 7 1
papers	citations	h-index	g-index
173	35,927 ext. citations	5.2	6.33
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
126	Global nature run data with realistic high-resolution carbon weather for the year of the Paris Agreement <i>Scientific Data</i> , 2022 , 9, 160	8.2	1
125	Quantification of methane emissions from hotspots and during COVID-19 using a global atmospheric inversion. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5961-5981	6.8	1
124	Global anthropogenic CO₂ emissions and uncertainties as a prior for Earth system modelling and data assimilation. <i>Earth System Science Data</i> , 2021 , 13, 5311-5335	10.5	3
123	Land-Atmosphere Interactions Exacerbated the Drought and Heatwave Over Northern Europe During Summer 2018. <i>AGU Advances</i> , 2021 , 2, e2020AV000283	5.4	16
122	Systematic detection of local CH₄ anomalies by combining satellite measurements with high-resolution forecasts. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5117-5136	6.8	10
121	ECLand: The ECMWF Land Surface Modelling System. <i>Atmosphere</i> , 2021 , 12, 723	2.7	5
120	An Urban Scheme for the ECMWF Integrated Forecasting System: Single-Column and Global Offline Application. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002375	7.1	5
119	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. <i>Geoscientific Model Development</i> , 2021 , 14, 4465-4494	6.3	4
118	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 17-40	5.5	61
117	Capability of the variogram to quantify the spatial patterns of surface fluxes and soil moisture simulated by land surface models. <i>Progress in Physical Geography</i> , 2021 , 45, 279-293	3.5	1
116	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	4.4	5
115	ERA5-Land: a state-of-the-art global reanalysis dataset for land applications. <i>Earth System Science Data</i> , 2021 , 13, 4349-4383	10.5	138
114	The CO2 Human Emissions (CHE) Project: First Steps Towards a European Operational Capacity to Monitor Anthropogenic CO2 Emissions. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	4
113	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049	6.4	3404
112	Environmental Lapse Rate for High-Resolution Land Surface Downscaling: An Application to ERA5. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000984	3.1	15
111	Interactions Between the Amazonian Rainforest and Cumuli Clouds: A Large-Eddy Simulation, High-Resolution ECMWF, and Observational Intercomparison Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001828	7.1	1
110	Toward an Operational Anthropogenic CO2 Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1439-E1451	6.1	29

(2018-2020)

109	Energy, environment and sustainable development of the belt and road initiative: The Chinese scenario and Western contributions. <i>Sustainable Futures</i> , 2020 , 2, 100009	2.9	17
108	Representing model uncertainty for global atmospheric CO₂ flux inversions using ECMWF-IFS-46R1. <i>Geoscientific Model Development</i> , 2020 , 13, 2297-2313	6.3	11
107	Sensitivity of snow models to the accuracy of meteorological forcings in mountain environments. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 4061-4090	5.5	9
106	Data assimilation for continuous global assessment of severe conditions over terrestrial surfaces. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 4291-4316	5.5	11
105	Measuring the Impact of a New Snow Model Using Surface Energy Budget Process Relationships. Journal of Advances in Modeling Earth Systems, 2020 , 12, e2020MS002144	7.1	3
104	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	2.7	4
103	Upgraded global mapping information for earth system modelling: an application to surface water depth at the ECMWF. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 4051-4076	5.5	9
102	Towards operational predictions of the near-term climate. <i>Nature Climate Change</i> , 2019 , 9, 94-101	21.4	63
101	Monitoring and Forecasting the Impact of the 2018 Summer Heatwave on Vegetation. <i>Remote Sensing</i> , 2019 , 11, 520	5	27
100	SEAS5: the new ECMWF seasonal forecast system. <i>Geoscientific Model Development</i> , 2019 , 12, 1087-11	176.3	152
100	SEAS5: the new ECMWF seasonal forecast system. <i>Geoscientific Model Development</i> , 2019 , 12, 1087-11 Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019 , 18, 1-53	176. ₃	152 36
	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface		
99	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019 , 18, 1-53 Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. <i>Monthly Weather</i>	2.7	
99 98	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019 , 18, 1-53 Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. <i>Monthly Weather Review</i> , 2019 , 147, 2979-2995 Evaluation of snow depth and snow cover over the Tibetan Plateau in global reanalyses using in situ	2.7	36 7
99 98 97	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019 , 18, 1-53 Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. <i>Monthly Weather Review</i> , 2019 , 147, 2979-2995 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 Impact of a Multi-Layer Snow Scheme on Near-Surface Weather Forecasts. <i>Journal of Advances in</i>	2.7 2.4 5.5	36761
99 98 97 96	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019 , 18, 1-53 Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. <i>Monthly Weather Review</i> , 2019 , 147, 2979-2995 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 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	2.7 2.4 5.5	3676112
99 98 97 96	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. Vadose Zone Journal, 2019, 18, 1-53 Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. Monthly Weather Review, 2019, 147, 2979-2995 Evaluation of snow depth and snow cover over the Tibetan Plateau in global reanalyses using in situ and satellite remote sensing observations. Cryosphere, 2019, 13, 2221-2239 Impact of a Multi-Layer Snow Scheme on Near-Surface Weather Forecasts. Journal of Advances in Modeling Earth Systems, 2019, 11, 4687-4710 Land Surface Processes Relevant to Sub-seasonal to Seasonal (S2S) Prediction 2019, 165-181 Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models	2.7 2.4 5.5 7.1	36761129

91	The Numerics of Physical Parametrization in the ECMWF Model. Frontiers in Earth Science, 2018, 6,	3.5	17
90	SEAS5: The new ECMWF seasonal forecast system 2018,		2
89	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018 , 11, 5027-5049	6.3	62
88	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , 2018 , 10, 2038	5	60
87	ESM-SnowMIP: Assessing models and quantifying snow-related climate feedbacks 2018,		3
86	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	3.7	13
85	Streamflows over a West African Basin from the ALMIP2 Model Ensemble. <i>Journal of Hydrometeorology</i> , 2017 , 18, 1831-1845	3.7	11
84	On the numerical stability of surfaceItmosphere coupling in weather and climate models. <i>Geoscientific Model Development</i> , 2017 , 10, 977-989	6.3	17
83	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. <i>Remote Sensing of Environment</i> , 2017 , 203, 185-215	13.2	488
82	Multi-scale enhancement of climate prediction over land by increasing the model sensitivity to vegetation variability in EC-Earth. <i>Climate Dynamics</i> , 2017 , 49, 1215-1237	4.2	13
81	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	6.4	123
80	Precipitation over Monsoon Asia: A Comparison of Reanalyses and Observations. <i>Journal of Climate</i> , 2017 , 30, 465-476	4.4	36
79	Advancing land surface model development with satellite-based Earth observations. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 2483-2495	5.5	26
78	A global water resources ensemble of hydrological models: the eartH2Observe Tier-1 dataset. <i>Earth System Science Data</i> , 2017 , 9, 389-413	10.5	116
77	Building a Multimodel Flood Prediction System with the TIGGE Archive. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2923-2940	3.7	18
76	A biogenic CO₂ flux adjustment scheme for the mitigation of large-scale biases in global atmospheric CO₂ analyses and forecasts. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10399-10418	6.8	18
75	Influence of the Eurasian snow on the negative North Atlantic Oscillation in subseasonal forecasts of the cold winter 2009/2010. <i>Climate Dynamics</i> , 2016 , 47, 1325-1334	4.2	41
74	The plumbing of land surface models: is poor performance a result of methodology or data quality?. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1705-1723	3.7	33

(2013-2016)

73	Impact of springtime Himalayan libetan Plateau snowpack on the onset of the Indian summer monsoon in coupled seasonal forecasts. <i>Climate Dynamics</i> , 2016 , 47, 2709-2725	4.2	36
72	Confronting weather and climate models with observational data from soil moisture networks over the United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1049-1067	3.7	60
71	The Plumbing of Land Surface Models: Benchmarking Model Performance. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1425-1442	3.7	150
70	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	13.2	41
69	Comparison of model land skin temperature with remotely sensed estimates and assessment of surface-atmosphere coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12,096	4.4	57
68	Soil temperature at ECMWF: An assessment using ground-based observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1361-1373	4.4	25
67	ERA-Interim/Land: a global land surface reanalysis data set. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 389-407	5.5	379
66	The WFDEI meteorological forcing data set: WATCH Forcing Data methodology applied to ERA-Interim reanalysis data. <i>Water Resources Research</i> , 2014 , 50, 7505-7514	5.4	660
65	Initialisation of Land Surface Variables for Numerical Weather Prediction. <i>Surveys in Geophysics</i> , 2014 , 35, 607-621	7.6	100
64	Forecasting global atmospheric CO₂. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11959-11983	6.8	49
63	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014 , 11, 3547-3602	4.6	136
62	Evaluating the potential of large-scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network. <i>Biogeosciences</i> , 2014 , 11, 2661-2678	4.6	22
61	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2586-2614	3.7	54
60	Toward a Consistent Reanalysis of the Climate System. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1235-1248	6.1	153
59	The 2010I011 drought in the Horn of Africa in ECMWF reanalysis and seasonal forecast products. <i>International Journal of Climatology</i> , 2013 , 33, 1720-1729	3.5	97
58	Monitoring multi-decadal satellite earth observation of soil moisture products through land surface reanalyses. <i>Remote Sensing of Environment</i> , 2013 , 138, 77-89	13.2	68
57	Impact of snow initialization on sub-seasonal forecasts. Climate Dynamics, 2013, 41, 1969-1982	4.2	63
56	Skill and Global Trend Analysis of Soil Moisture from Reanalyses and Microwave Remote Sensing. Journal of Hydrometeorology, 2013 , 14, 1259-1277	3.7	162

55	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	8- \$9 46	88
54	A simplified Extended Kalman Filter for the global operational soil moisture analysis at ECMWF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 1199-1213	6.4	188
53	Representing Land Surface Heterogeneity: Offline Analysis of the Tiling Method. <i>Journal of Hydrometeorology</i> , 2013 , 14, 850-867	3.7	9
52	Impact of a satellite-derived leaf area index monthly climatology in a global numerical weather prediction model. <i>International Journal of Remote Sensing</i> , 2013 , 34, 3520-3542	3.1	80
51	Why is it so difficult to represent stably stratified conditions in numerical weather prediction (NWP) models?. <i>Journal of Advances in Modeling Earth Systems</i> , 2013 , 5, 117-133	7.1	140
50	The Concordiasi Field Experiment over Antarctica: First Results from Innovative Atmospheric Measurements. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, ES17-ES20	6.1	14
49	Soil moisture effects on seasonal temperature and precipitation forecast scores in Europe. <i>Climate Dynamics</i> , 2012 , 38, 349-362	4.2	91
48	A bare ground evaporation revision in the ECMWF land-surface scheme: evaluation of its impact using ground soil moisture and satellite microwave data. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 3607-3620	5.5	42
47	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> , 2012 , 64, 15829	2	74
46	Complexity of Snow Schemes in a Climate Model and Its Impact on Surface Energy and Hydrology. Journal of Hydrometeorology, 2012 , 13, 521-538	3.7	50
45	Soil Moisture Analyses at ECMWF: Evaluation Using Global Ground-Based In Situ Observations. Journal of Hydrometeorology, 2012 , 13, 1442-1460	3.7	101
44	Initialisation of Land Surface Variables for Numerical Weather Prediction. <i>Space Sciences Series of ISSI</i> , 2012 , 607-621	0.1	
43	Land water storage variability over West Africa estimated by Gravity Recovery and Climate Experiment (GRACE) and land surface models. <i>Water Resources Research</i> , 2011 , 47,	5.4	67
42	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	267
41	Global intercomparison of 12 land surface heat flux estimates. <i>Journal of Geophysical Research</i> , 2011 , 116,		271
40	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. <i>Journal of Geophysical Research</i> , 2011 , 116,		35
39	Verification of the new ECMWF ERA-Interim reanalysis over France. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 647-666	5.5	91
38	The ERA-Interim reanalysis: configuration and performance of the data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 553-597	6.4	17277

(2008-2011)

37	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	3.3	60
36	Sensitivity of L-band NWP forward modelling to soil roughness. <i>International Journal of Remote Sensing</i> , 2011 , 32, 5607-5620	3.1	25
35	The Second Phase of the Global LandAtmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. <i>Journal of Hydrometeorology</i> , 2011 , 12, 805-822	3.7	242
34	Cross-evaluation of modelled and remotely sensed surface soil moisture with in situ data in southwestern France. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 2177-2191	5.5	79
33	The Concordiasi Project in Antarctica. Bulletin of the American Meteorological Society, 2010 , 91, 69-86	6.1	65
32	An Intercomparison of Simulated Rainfall and Evapotranspiration Associated with a Mesoscale Convective System over West Africa. <i>Weather and Forecasting</i> , 2010 , 25, 37-60	2.1	19
31	Contribution of land surface initialization to subseasonal forecast skill: First results from a multi-model experiment. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	280
30	Impact of improved soil moisture on the ECMWF precipitation forecast in West Africa. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	26
29	An Improved Snow Scheme for the ECMWF Land Surface Model: Description and Offline Validation. Journal of Hydrometeorology, 2010 , 11, 899-916	3.7	191
28	Global runoff routing with the hydrological component of the ECMWF NWP system. <i>International Journal of Climatology</i> , 2010 , 30, 2155-2174	3.5	40
27	The ECMWF model climate: recent progress through improved physical parametrizations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 1145-1160	6.4	70
26	The ECMWF re-analysis for the AMMA observational campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 1457-1472	6.4	40
25	A Revised Hydrology for the ECMWF Model: Verification from Field Site to Terrestrial Water Storage and Impact in the Integrated Forecast System. <i>Journal of Hydrometeorology</i> , 2009 , 10, 623-643	3.7	557
24	Comparing ERA-40-Based L-Band Brightness Temperatures with Skylab Observations: A Calibration/Validation Study Using the Community Microwave Emission Model. <i>Journal of Hydrometeorology</i> , 2009 , 10, 213-226	3.7	52
23	The AMMA Land Surface Model Intercomparison Project (ALMIP). <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1865-1880	6.1	149
22	Towards a Kalman Filter based soil moisture analysis system for the operational ECMWF Integrated Forecast System. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	68
21	AMMA Land Surface Model Intercomparison Experiment coupled to the Community Microwave Emission Model: ALMIP-MEM. <i>Journal of Geophysical Research</i> , 2009 , 114,		92
20	Analysis of leaf area index in the ECMWF land surface model and impact on latent heat and carbon fluxes: Application to West Africa. <i>Journal of Geophysical Research</i> , 2008 , 113,		57

19	Advances in simulating atmospheric variability with the ECMWF model: From synoptic to decadal time-scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 1337-1351	6.4	407
18	The new VarEPS-monthly forecasting system: A first step towards seamless prediction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 1789-1799	6.4	109
17	Evaluation of European Land Data Assimilation System (ELDAS) products using in situ observations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008 , 60, 1023-1037	2	14
16	A Land Data Assimilation System for Soil Moisture and Temperature: An Information Content Study. <i>Journal of Hydrometeorology</i> , 2007 , 8, 1225-1242	3.7	65
15	A Global Root-Zone Soil Moisture Analysis Using Simulated L-band Brightness Temperature in Preparation for the Hydros Satellite Mission. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1126-1146	3.7	27
14	A simplified bi-dimensional variational analysis of soil moisture from screen-level observations in a mesoscale numerical weather-prediction model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 895-915	6.4	41
13	Impact of soil surface moisture initialization on rainfall in a limited area model: a case study of the 1995 South Ticino flash flood. <i>Hydrological Processes</i> , 2002 , 16, 1301-1317	3.3	13
12	Towards the inclusion of hydros soil moisture measurements in forecasting systems of the meteorological service of Canada		1
11	Forecasting global atmospheric CO ₂		2
10	Current systematic carbon cycle observations and needs for implementing a policy-relevant carbon observing system		10
9	Evaluating the potential of large scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network		2
8	A global water resources ensemble of hydrological models: the eartH2Observe Tier-1 dataset		2
7	Global anthropogenic CO ₂ emissions and uncertainties as prior for Earth system modelling and data assimilation		4
6	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors		4
5	ERA-Interim/Land: a global land water resources dataset		36
4	Cross-evaluation of modelled and remotely sensed surface soil moisture with in situ data in Southwestern France		1
3	A bare ground evaporation revision in the ECMWF land-surface scheme: evaluation of its impact using ground soil moisture and satellite microwave data		4
2	Varying snow and vegetation signatures of surface albedo feedback on the Northern Hemisphere land warming. <i>Environmental Research Letters</i> ,	6.2	2

ERA5-Land: A state-of-the-art global reanalysis dataset for land applications

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