

# Pascal Yiou

## List of Publications by Year in descending order

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Version: 2024-02-01

136  
papers

12,655  
citations

57719

44  
h-index

30058

103  
g-index

181  
all docs

181  
docs citations

181  
times ranked

13484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal circulation regimes in the North Atlantic: Towards a new seasonality. <i>International Journal of Climatology</i> , 2022, 42, 5848-5870.	1.5	4
2	Evaluation of convection-permitting extreme precipitation simulations for the south of France. <i>Earth System Dynamics</i> , 2022, 13, 687-702.	2.7	12
3	Quantifying CMIP6 model uncertainties in extreme precipitation projections. <i>Weather and Climate Extremes</i> , 2022, 36, 100435.	1.6	26
4	Present and future synoptic circulation patterns associated with cold and snowy spells over Italy. <i>Earth System Dynamics</i> , 2022, 13, 961-992.	2.7	3
5	Assessment of stochastic weather forecast of precipitation near European cities, based on analogs of circulation. <i>Geoscientific Model Development</i> , 2022, 15, 4941-4958.	1.3	3
6	Should Multivariate Bias Corrections of Climate Simulations Account for Changes of Rank Correlation Over Time?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	8
7	Simulating compound weather extremes responsible for critical crop failure with stochastic weather generators. <i>Earth System Dynamics</i> , 2021, 12, 103-120.	2.7	3
8	Compound Climate Events and Extremes in the Midlatitudes: Dynamics, Simulation, and Statistical Characterization. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E774-E781.	1.7	18
9	Probability Distributions for Analog-To-Target Distances. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 3317-3335.	0.6	5
10	Enhancing geophysical flow machine learning performance via scale separation. <i>Nonlinear Processes in Geophysics</i> , 2021, 28, 423-443.	0.6	2
11	Modelling forest ruin due to climate hazards. <i>Earth System Dynamics</i> , 2021, 12, 997-1013.	2.7	1
12	Projected Changes in the Atmospheric Dynamics of Climate Extremes in France. <i>Atmosphere</i> , 2021, 12, 1440.	1.0	0
13	Singular Extreme Events and Their Attribution to Climate Change: A Climate Service-Centered Analysis. <i>Weather, Climate, and Society</i> , 2020, 12, 89-101.	0.5	10
14	On the Computation of the Extremal Index for Time Series. <i>Journal of Statistical Physics</i> , 2020, 179, 1666-1697.	0.5	8
15	AMOC and summer sea ice as key drivers of the spread in mid-holocene winter temperature patterns over Europe in PMIP3 models. <i>Global and Planetary Change</i> , 2020, 184, 103055.	1.6	8
16	Changes in Future Synoptic Circulation Patterns: Consequences for Extreme Event Attribution. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088002.	1.5	23
17	Wave group focusing in the ocean: estimations using crest velocities and a Gaussian linear model. <i>Natural Hazards</i> , 2020, 104, 2431-2449.	1.6	2
18	Ocean and land forcing of the record-breaking Dust Bowl heatwaves across central United States. <i>Nature Communications</i> , 2020, 11, 2870.	5.8	13

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19	Simulation of extreme heat waves with empirical importance sampling. <i>Geoscientific Model Development</i> , 2020, 13, 763-781.	1.3	12
20	Analyses of the Northern European Summer Heatwave of 2018. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S35-S40.	1.7	44
21	Conditional and residual trends of singular hot days in Europe. <i>Environmental Research Letters</i> , 2020, 15, 064018.	2.2	11
22	Diagnosing concurrent drivers of weather extremes: application to warm and cold days in North America. <i>Climate Dynamics</i> , 2020, 54, 2187-2201.	1.7	23
23	Statistical downscaling of water vapour satellite measurements from profiles of tropical ice clouds. <i>Earth System Science Data</i> , 2020, 12, 1-20.	3.7	4
24	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe. <i>Climate Dynamics</i> , 2019, 52, 1187-1210.	1.7	34
25	Comparing scientists and delegates perspectives on the use of extreme event attribution for loss and damage. <i>Weather and Climate Extremes</i> , 2019, 26, 100231.	1.6	8
26	Minimal dynamical systems model of the Northern Hemisphere jet stream via embedding of climate data. <i>Earth System Dynamics</i> , 2019, 10, 555-567.	2.7	13
27	Recurrence Spectra of European Temperature in Historical Climate Simulations. <i>Atmosphere</i> , 2019, 10, 166.	1.0	3
28	Generalized dimensions, large deviations and the distribution of rare events. <i>Physica D: Nonlinear Phenomena</i> , 2019, 400, 132143.	1.3	20
29	Human influence on European winter wind storms such as those of January 2018. <i>Earth System Dynamics</i> , 2019, 10, 271-286.	2.7	45
30	Multivariate stochastic bias corrections with optimal transport. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 773-786.	1.9	29
31	The European 2016/17 Drought. <i>Journal of Climate</i> , 2019, 32, 3169-3187.	1.2	86
32	On the low-frequency variability of wintertime Euro-Atlantic planetary wave-breaking. <i>Climate Dynamics</i> , 2019, 52, 2431-2450.	1.7	4
33	The hamam effect or how a warm ocean enhances large scale atmospheric predictability. <i>Nature Communications</i> , 2019, 10, 1316.	5.8	47
34	Stochastic ensemble climate forecast with an analogue model. <i>Geoscientific Model Development</i> , 2019, 12, 723-734.	1.3	12
35	Revisiting the dynamic and thermodynamic processes driving the record-breaking January 2014 precipitation in the southern UK. <i>Scientific Reports</i> , 2019, 9, 2859.	1.6	21
36	Trends of atmospheric circulation during singular hot days in Europe. <i>Environmental Research Letters</i> , 2018, 13, 054007.	2.2	21

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37	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study. <i>Journal of Climate</i> , 2018, 31, 3387-3410.	1.2	16
38	Multiple perspectives on the attribution of the extreme European summer of 2012 to climate change. <i>Climate Dynamics</i> , 2018, 50, 3537-3555.	1.7	15
39	Revising Return Periods for Record Events in a Climate Event Attribution Context. <i>Journal of Climate</i> , 2018, 31, 3411-3422.	1.2	13
40	Role of circulation in European heatwaves using flow analogues. <i>Climate Dynamics</i> , 2018, 50, 1145-1159.	1.7	57
41	Web processing service for climate impact and extreme weather event analyses. <i>Flyingpigeon (Version) Tj ETQq1 1.0, 784314, rgBT / Over</i>	2.0	11
42	Mortality induced by PM2.5 exposure following the 1783 Laki eruption using reconstructed meteorological fields. <i>Scientific Reports</i> , 2018, 8, 15896.	1.6	4
43	An Interdisciplinary Approach to the Study of Extreme Weather Events: Large-Scale Atmospheric Controls and Insights from Dynamical Systems Theory and Statistical Mechanics. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, ES81-ES85.	1.7	11
44	Dynamical Properties of the North Atlantic Atmospheric Circulation in the Past 150 Years in CMIP5 Models and the 20CRv2c Reanalysis. <i>Journal of Climate</i> , 2018, 31, 6097-6111.	1.2	28
45	Attribution of Wintertime Anticyclonic Stagnation Contributing to Air Pollution in Western Europe. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S70-S75.	1.7	19
46	Atmospheric Dynamics Leading to West European Summer Hot Temperatures Since 1851. <i>Complexity</i> , 2018, 2018, 1-10.	0.9	26
47	Recent Trends in the Recurrence of North Atlantic Atmospheric Circulation Patterns. <i>Complexity</i> , 2018, 2018, 1-8.	0.9	8
48	Behind the veil of extreme event attribution. <i>Climatic Change</i> , 2018, 149, 367-383.	1.7	30
49	Analysis of the Exceptionally Warm December 2015 in France Using Flow Analogues. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S76-S79.	1.7	6
50	Attribution of Extreme Rainfall Events in the South of France Using EURO-CORDEX Simulations. <i>Geophysical Research Letters</i> , 2018, 45, 6242-6250.	1.5	20
51	Dynamical proxies of North Atlantic predictability and extremes. <i>Scientific Reports</i> , 2017, 7, 41278.	1.6	116
52	Dynamical properties and extremes of Northern Hemisphere climate fields over the past 60 years. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 713-725.	0.6	40
53	Detecting changes in forced climate attractors with Wasserstein distance. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 393-405.	0.6	24
54	A statistical framework for conditional extreme event attribution. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2017, 3, 17-31.	0.6	32

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55	Attribution of human-induced dynamical and thermodynamical contributions in extreme weather events. <i>Environmental Research Letters</i> , 2016, 11, 114009.	2.2	71
56	Attribution of extreme weather and climate-related events. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 23-41.	3.6	437
57	Return times of hot and cold days via recurrences and extreme value theory. <i>Climate Dynamics</i> , 2016, 47, 3803-3815.	1.7	8
58	Human influence on climate in the 2014 southern England winter floods and their impacts. <i>Nature Climate Change</i> , 2016, 6, 627-634.	8.1	237
59	The switching between zonal and blocked mid-latitude atmospheric circulation: a dynamical system perspective. <i>Climate Dynamics</i> , 2016, 47, 1587-1599.	1.7	31
60	Projected increase in diurnal and interdiurnal variations of European summer temperatures. <i>Geophysical Research Letters</i> , 2015, 42, 899-907.	1.5	39
61	Extreme Fall 2014 Precipitation in the CÃ©vennes Mountains. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S56-S60.	1.7	33
62	Drivers of the 2013/14 winter floods in the UK. <i>Nature Climate Change</i> , 2015, 5, 490-491.	8.1	19
63	Assessing climate change impacts on European wind energy from ENSEMBLES high-resolution climate projections. <i>Climatic Change</i> , 2015, 128, 99-112.	1.7	171
64	A model-tested North Atlantic Oscillation reconstruction for the past millennium. <i>Nature</i> , 2015, 523, 71-74.	13.7	255
65	The CLIMIX model: A tool to create and evaluate spatially-resolved scenarios of photovoltaic and wind power development. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1-15.	8.2	47
66	Extreme Fall 2014 Precipitation in the CÃ©vennes Mountains. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S56-S60.	1.7	1
67	AnaWEGE: a weather generator based on analogues of atmospheric circulation. <i>Geoscientific Model Development</i> , 2014, 7, 531-543.	1.3	48
68	Three variables are better than one: detection of european winter windstorms causing important damages. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 981-993.	1.5	8
69	Using palaeo-climate comparisons to constrain future projections in CMIP5. <i>Climate of the Past</i> , 2014, 10, 221-250.	1.3	193
70	EURO-CORDEX: new high-resolution climate change projections for European impact research. <i>Regional Environmental Change</i> , 2014, 14, 563-578.	1.4	1,758
71	Characterizing atmospheric circulation signals in Greenland ice cores: insights from a weather regime approach. <i>Climate Dynamics</i> , 2014, 43, 2585-2605.	1.7	29
72	Trends and variability of seasonal weather regimes. <i>International Journal of Climatology</i> , 2014, 34, 472-480.	1.5	21

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73	European heatwave in July 2006: Observations and modeling showing how local processes amplify conducive large-scale conditions. <i>Geophysical Research Letters</i> , 2014, 41, 5644-5652.	1.5	31
74	Ensemble meteorological reconstruction using circulation analogues of 1781–1785. <i>Climate of the Past</i> , 2014, 10, 797-809.	1.3	21
75	Summer temperatures in Europe and land heat fluxes in observation-based data and regional climate model simulations. <i>Climate Dynamics</i> , 2013, 41, 455-477.	1.7	43
76	Ensemble reconstruction of the atmospheric column from surface pressure using analogues. <i>Climate Dynamics</i> , 2013, 41, 1333-1344.	1.7	33
77	North-Atlantic dynamics and European temperature extremes in the IPSL model: sensitivity to atmospheric resolution. <i>Climate Dynamics</i> , 2013, 40, 2293-2310.	1.7	21
78	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. <i>Climate Dynamics</i> , 2013, 41, 2555-2575.	1.7	290
79	Impact of precipitation intermittency on NAO-temperature signals in proxy records. <i>Climate of the Past</i> , 2013, 9, 871-886.	1.3	26
80	Large-scale temperature response to external forcing in simulations and reconstructions of the last millennium. <i>Climate of the Past</i> , 2013, 9, 393-421.	1.3	131
81	Asymmetric European summer heat predictability from wet and dry southern winters and springs. <i>Nature Climate Change</i> , 2012, 2, 736-741.	8.1	213
82	Robustness of warming attribution. <i>Nature Climate Change</i> , 2012, 2, 26-27.	8.1	4
83	Changes in Climate Extremes and their Impacts on the Natural Physical Environment. , 2012, , 109-230.		1,080
84	Stability of weather regimes during the last millennium from climate simulations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	17
85	Continental atmospheric circulation over Europe during the Little Ice Age inferred from grape harvest dates. <i>Climate of the Past</i> , 2012, 8, 577-588.	1.3	14
86	An open-access database of grape harvest dates for climate research: data description and quality assessment. <i>Climate of the Past</i> , 2012, 8, 1403-1418.	1.3	51
87	Dynamics of future seasonal temperature trends and extremes in Europe: a multi-model analysis from CMIP3. <i>Climate Dynamics</i> , 2012, 38, 1949-1964.	1.7	43
88	Preface "Extreme Events: Nonlinear Dynamics and Time Series Analysis". <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 895-897.	0.6	3
89	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 295-350.	0.6	197
90	Grapevine harvest dates in Besançon (France) between 1525 and 1847: Social outcomes or climatic evidence?. <i>Climatic Change</i> , 2011, 104, 703-727.	1.7	41

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91	North-Atlantic SST amplified recent wintertime European land temperature extremes and trends. <i>Climate Dynamics</i> , 2011, 36, 2113-2128.	1.7	23
92	Simulation of regional climate change under the IPCC A2 scenario in southeast China. <i>Climate Dynamics</i> , 2011, 36, 491-507.	1.7	53
93	On the roles of circulation and aerosols in the decline of mist and dense fog in Europe over the last 30 years. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4597-4609.	1.9	46
94	Northern Hemisphere atmospheric stilling partly attributed to an increase in surface roughness. <i>Nature Geoscience</i> , 2010, 3, 756-761.	5.4	581
95	A critical look at solar-climate relationships from long temperature series. <i>Climate of the Past</i> , 2010, 6, 745-758.	1.3	9
96	Influence of solar variability, CO <sub>2</sub> and orbital forcing between 1000 and 1850 AD in the IPSLCM4 model. <i>Climate of the Past</i> , 2010, 6, 445-460.	1.3	53
97	Statistical issues about solar-climate relations. <i>Climate of the Past</i> , 2010, 6, 565-573.	1.3	12
98	Relation between Large-Scale Circulation and European Winter Temperature: Does It Hold under Warmer Climate?. <i>Journal of Climate</i> , 2010, 23, 3752-3760.	1.2	11
99	Weather regimes designed for local precipitation modeling: Application to the Mediterranean basin. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
100	Winter 2010 in Europe: A cold extreme in a warming climate. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	379
101	Variability of the northeast Atlantic sea surface $\hat{T}^{14C}$ and marine reservoir age and the North Atlantic Oscillation (NAO). <i>Quaternary Science Reviews</i> , 2010, 29, 2633-2646.	1.4	41
102	Decline of fog, mist and haze in Europe over the past 30 years. <i>Nature Geoscience</i> , 2009, 2, 115-119.	5.4	179
103	Origins of the extremely warm European fall of 2006. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	23
104	Control of recent European surface climate change by atmospheric flow. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	65
105	Hot European Summers and the Role of Soil Moisture in the Propagation of Mediterranean Drought. <i>Journal of Climate</i> , 2009, 22, 4747-4758.	1.2	180
106	Statistical representation of temperature mean and variability in Europe. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	19
107	A 4500-year reconstruction of sea surface temperature variability at decadal time-scales off North Iceland. <i>Quaternary Science Reviews</i> , 2008, 27, 2041-2047.	1.4	62
108	Decadal variability of sea surface temperatures off North Iceland over the last 2000 years. <i>Earth and Planetary Science Letters</i> , 2008, 268, 137-142.	1.8	148

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109	Detecting spatial patterns with the cumulant function “ Part 2: An application to El Niño. Nonlinear Processes in Geophysics, 2008, 15, 169-177.	0.6	8
110	Weather regime dependence of extreme value statistics for summer temperature and precipitation. Nonlinear Processes in Geophysics, 2008, 15, 365-378.	0.6	55
111	Summertime European heat and drought waves induced by wintertime Mediterranean rainfall deficit. Geophysical Research Letters, 2007, 34, .	1.5	289
112	Inconsistency between atmospheric dynamics and temperatures during the exceptional 2006/2007 fall/winter and recent warming in Europe. Geophysical Research Letters, 2007, 34, .	1.5	71
113	Simulated changes in the relationship between tropical ocean temperatures and the western African monsoon during the mid-Holocene. Climate Dynamics, 2007, 28, 533-551.	1.7	31
114	Amplitude and frequency of temperature extremes over the North Atlantic region. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	71
115	Statistical analysis of floods in Bohemia (Czech Republic) since 1825. Hydrological Sciences Journal, 2006, 51, 930-945.	1.2	36
116	Interannual-to-decadal variability of North Atlantic air-sea CO <sub>2</sub> fluxes. Ocean Science, 2006, 2, 43-60.	1.3	12
117	Changes in European precipitation seasonality and in drought frequencies revealed by a four-century-long tree-ring isotopic record from Brittany, western France. Climate Dynamics, 2005, 24, 57-69.	1.7	88
118	Using MSSA to determine explicitly the oscillatory dynamics of weakly nonlinear climate systems. Nonlinear Processes in Geophysics, 2005, 12, 807-815.	0.6	6
119	Trends in sub-annual climate variability since the Little Ice Age in western Europe. Comptes Rendus - Geoscience, 2005, 337, 1001-1012.	0.4	7
120	Statistical methods for the analysis of climate extremes. Comptes Rendus - Geoscience, 2005, 337, 1013-1022.	0.4	87
121	Grape ripening as a past climate indicator. Nature, 2004, 432, 289-290.	13.7	369
122	Extreme climatic events and weather regimes over the North Atlantic: When and where?. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	149
123	Interhemispheric space-time attributes of the Dansgaard-Oeschger oscillations between 100 and 0ka. Quaternary Science Reviews, 2002, 21, 1213-1228.	1.4	70
124	Does the NAO index represent zonal flow? The influence of the NAO on North Atlantic surface temperature. Climate Dynamics, 2002, 19, 17-30.	1.7	73
125	The North Atlantic Oscillation and its relationship with near surface temperature. Geophysical Research Letters, 2001, 28, 807-810.	1.5	39
126	Grape harvest dates for checking NAO paleoreconstructions. Geophysical Research Letters, 2001, 28, 3895-3898.	1.5	35



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127	Data-adaptive wavelets and multi-scale singular-spectrum analysis. <i>Physica D: Nonlinear Phenomena</i> , 2000, 142, 254-290.	1.3	131
128	Testing asynchronous coupling on simple "ocean-atmosphere" dynamic systems. <i>Climate Dynamics</i> , 1999, 15, 1-7.	1.7	2
129	Atmospheric and oceanic evidences of El Niño-Southern Oscillation events in the south central Pacific Ocean from coral stable isotopic records over the last 137 years. <i>Paleoceanography</i> , 1998, 13, 671-685.	3.0	60
130	Beryllium 10 in the Greenland Ice Core Project ice core at Summit, Greenland. <i>Journal of Geophysical Research</i> , 1997, 102, 26783-26794.	3.3	240
131	Spectral analysis of climate data. <i>Surveys in Geophysics</i> , 1996, 17, 619-663.	2.1	119
132	Rapid oscillations in Vostok and GRIP Ice Cores. <i>Geophysical Research Letters</i> , 1995, 22, 2179-2182.	1.5	36
133	Sedimentary record of rapid climatic variability in the North Atlantic Ocean during the Last Glacial Cycle. <i>Paleoceanography</i> , 1995, 10, 911-926.	3.0	59
134	Nonlinear variability of the climatic system from singular and power spectra of Late Quaternary records. <i>Climate Dynamics</i> , 1994, 9, 371-389.	1.7	55
135	Extending the Vostok ice-core record of palaeoclimate to the penultimate glacial period. <i>Nature</i> , 1993, 364, 407-412.	13.7	556
136	Singular-spectrum analysis: A toolkit for short, noisy chaotic signals. <i>Physica D: Nonlinear Phenomena</i> , 1992, 58, 95-126.	1.3	1,189