

# Francis Codron

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

5,190  
citations

279798

23  
h-index

182427

51  
g-index

56  
all docs

56  
docs citations

56  
times ranked

7467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , 2013, 40, 2123-2165.	3.8	1,425
2	The LMDZ4 general circulation model: climate performance and sensitivity to parametrized physics with emphasis on tropical convection. <i>Climate Dynamics</i> , 2006, 27, 787-813.	3.8	795
3	Presentation and Evaluation of the IPSL-CM6-AR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002010.	3.8	541
4	Winter 2010 in Europe: A cold extreme in a warming climate. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	379
5	Impact of the LMDZ atmospheric grid configuration on the climate and sensitivity of the IPSL-CM5A coupled model. <i>Climate Dynamics</i> , 2013, 40, 2167-2192.	3.8	250
6	Key features of the IPSL ocean atmosphere model and its sensitivity to atmospheric resolution. <i>Climate Dynamics</i> , 2010, 34, 1-26.	3.8	235
7	The extreme physical properties of the CoRoT-7b super-Earth. <i>Icarus</i> , 2011, 213, 1-11.	2.5	122
8	West Antarctic surface melt triggered by atmospheric rivers. <i>Nature Geoscience</i> , 2019, 12, 911-916.	12.9	112
9	The PreVOCA experiment: modeling the lower troposphere in the Southeast Pacific. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4757-4774.	4.9	109
10	Stratospheric ozone depletion reduces ocean carbon uptake and enhances ocean acidification. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	108
11	Exploring the faint young Sun problem and the possible climates of the Archean Earth with a 3D GCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,414.	3.3	106
12	Statistical downscaling of sea-surface wind over the Peru-Chile upwelling region: diagnosing the impact of climate change from the IPSL-CM4 model. <i>Climate Dynamics</i> , 2011, 36, 1365-1378.	3.8	89
13	What dynamics drive future wind scenarios for coastal upwelling off Peru and Chile?. <i>Climate Dynamics</i> , 2014, 43, 1893-1914.	3.8	73
14	Southern westerlies in LGM and future (RCP4.5) climates. <i>Climate of the Past</i> , 2013, 9, 517-524.	3.4	64
15	Antarctic Atmospheric River Climatology and Precipitation Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033788.	3.3	60
16	Peru-Chile upwelling dynamics under climate change. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1152-1172.	2.6	52
17	Relation between Annular Modes and the Mean State: Southern Hemisphere Summer. <i>Journal of Climate</i> , 2005, 18, 320-330.	3.2	48
18	The tropical rain belts with an annual cycle and a continent model intercomparison project: TRACMIP. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1868-1891.	3.8	47

#	ARTICLE	IF	CITATIONS
19	Intense atmospheric rivers can weaken ice shelf stability at the Antarctic Peninsula. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	46
20	Relations between Annular Modes and the Mean State: Southern Hemisphere Winter. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3328-3339.	1.7	40
21	Atmospheric Circulations Induced by a Midlatitude SST Front: A GCM Study. <i>Journal of Climate</i> , 2012, 25, 1847-1853.	3.2	39
22	Separation of a Coastal Current at a Strait Level: Case of the Strait of Sicily. <i>Journal of Physical Oceanography</i> , 1998, 28, 1346-1362.	1.7	31
23	Thermal light curves of Earth-like planets: 1. Varying surface and rotation on planets in a terrestrial orbit. <i>Icarus</i> , 2016, 269, 98-110.	2.5	29
24	Multicentennial Variability Driven by Salinity Exchanges Between the Atlantic and the Arctic Ocean in a Coupled Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002366.	3.8	28
25	Acceleration of western Arctic sea ice loss linked to the Pacific North American pattern. <i>Nature Communications</i> , 2021, 12, 1519.	12.8	27
26	Ekman heat transport for slab oceans. <i>Climate Dynamics</i> , 2012, 38, 379-389.	3.8	23
27	Southern Hemisphere Jet Variability in the IPSL GCM at Varying Resolutions. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3788-3799.	1.7	22
28	The Southern Ocean Sea Surface Temperature Response to Ozone Depletion: A Multimodel Comparison. <i>Journal of Climate</i> , 2019, 32, 5107-5121.	3.2	22
29	North-Atlantic dynamics and European temperature extremes in the IPSL model: sensitivity to atmospheric resolution. <i>Climate Dynamics</i> , 2013, 40, 2293-2310.	3.8	21
30	Differing Impacts of Resolution Changes in Latitude and Longitude on the Midlatitudes in the LMDZ Atmospheric GCM. <i>Journal of Climate</i> , 2011, 24, 5831-5849.	3.2	18
31	Relationship Between Weather Regimes and Atmospheric Rivers in East Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035294.	3.3	18
32	Mechanisms Determining the Winter Atmospheric Response to the Atlantic Overturning Circulation. <i>Journal of Climate</i> , 2016, 29, 3767-3785.	3.2	16
33	Influence of Mean State Changes on the Structure of ENSO in a Tropical Coupled GCM. <i>Journal of Climate</i> , 2001, 14, 730-742.	3.2	14
34	Impact of Anomalous Northward Oceanic Heat Transport on Global Climate in a Slab Ocean Setting. <i>Journal of Climate</i> , 2015, 28, 2650-2664.	3.2	14
35	Positive and Negative Eddy Feedbacks Acting on Midlatitude Jet Variability in a Three-Level Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1635-1649.	1.7	14
36	The partitioning of poleward energy transport response between the atmosphere and Ekman flux to prescribed surface forcing in a simplified GCM. <i>Geoscience Letters</i> , 2018, 5, .	3.3	12

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37	Saturation limiters for water vapour advection schemes: impact on orographic precipitation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2002, 54, 338-349.	1.7	11
38	Relation between Large-Scale Circulation and European Winter Temperature: Does It Hold under Warmer Climate?. <i>Journal of Climate</i> , 2010, 23, 3752-3760.	3.2	11
39	Understanding the <sc>W</sc>est <sc>A</sc>frican <sc>M</sc>onsoon from the analysis of diabatic heating distributions as simulated by climate models. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 239-270.	3.8	10
40	Historically-based run-time bias corrections substantially improve model projections of 100 years of future climate change. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	10
41	Transient Climate Response to Arctic Sea Ice Loss with Two Ice-Constraining Methods. <i>Journal of Climate</i> , 2021, 34, 3295-3310.	3.2	10
42	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.	3.6	8
43	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.	3.5	8
44	A Short-Term Negative Eddy Feedback on Midlatitude Jet Variability due to Planetary Wave Reflection. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 4311-4328.	1.7	7
45	Saturation limiters for water vapour advection schemes: impact on orographic precipitation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 54, 338.	1.7	6
46	Examining the <sc>W</sc>est <sc>A</sc>frican <sc>M</sc>onsoon circulation response to atmospheric heating in a <sc>GCM</sc> dynamical core. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 149-167.	3.8	6
47	Sensitivity of the tropical Pacific to a change of orbital forcing in two versions of a coupled GCM. <i>Climate Dynamics</i> , 2001, 17, 187-203.	3.8	5
48	An Improved Scheme for Interpolating between an Atmospheric Model and Underlying Surface Grids near Orography and Ocean Boundaries. <i>Monthly Weather Review</i> , 2000, 128, 1177-1186.	1.4	2
49	Influence of the Atlantic Meridional Overturning Circulation on the Tropical Climate Response to CO <sub>2</sub> Forcing. <i>Geophysical Research Letters</i> , 2018, 45, 8519-8528.	4.0	2
50	Effect of Upper- and Lower-Level Baroclinicity on the Persistence of the Leading Mode of Midlatitude Jet Variability. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 155-169.	1.7	2
51	Comment on "Characteristic Time Scales of Decadal to Centennial Changes in Global Surface Temperatures Over the Past 150 Years" by J. L. Le Mouél, F. Lopes, and V. Courtillot. <i>Earth and Space Science</i> , 2021, 8, e2020EA001298.	2.6	1