

# Arnaud Czaja

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

3,631  
citations

236925

25  
h-index

197818

49  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3543  
citing authors

#	ARTICLE	IF	CITATIONS
1	A "warm path"™ for Gulf Stream troposphere interactions. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1299397.	1.7	29
2	Labrador Slope Water connects the subarctic with the Gulf Stream. <i>Environmental Research Letters</i> , 2021, 16, 084019.	5.2	16
3	Ocean Heat Storage Rate Unaffected by MOC Weakening in an Idealized Climate Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089849.	4.0	1
4	Simulating the Midlatitude Atmospheric Circulation: What Might We Gain From High-Resolution Modeling of Air-Sea Interactions?. <i>Current Climate Change Reports</i> , 2019, 5, 390-406.	8.6	35
5	Mesoscale Signature of the North Atlantic Oscillation and Its Interaction With the Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 5575-5581.	4.0	1
6	Quasi-stationary waves and their impact on European weather and extreme events. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 2431-2448.	2.7	38
7	Poleward energy transport: is the standard definition physically relevant at all time scales?. <i>Climate Dynamics</i> , 2018, 50, 1785-1797.	3.8	15
8	A "Cold Path" for the Gulf Stream Troposphere Connection. <i>Journal of Climate</i> , 2017, 30, 1363-1379.	3.2	30
9	A simple diagnostic for the detection of atmospheric fronts. <i>Geophysical Research Letters</i> , 2017, 44, 4351-4358.	4.0	42
10	On the Spatial and Temporal Variability of Atmospheric Heat Transport in a Hierarchy of Models. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2163-2189.	1.7	15
11	The impact of SST resolution change in the ERA-Interim reanalysis on wintertime Gulf Stream frontal air-sea interaction. <i>Geophysical Research Letters</i> , 2017, 44, 3246-3254.	4.0	53
12	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?. <i>Ocean Modelling</i> , 2017, 120, 120-136.	2.4	79
13	Contribution of the cold sector of extratropical cyclones to mean state features over the Gulf Stream in winter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1990-2000.	2.7	14
14	Mechanisms controlling the SST air-sea heat flux feedback and its dependence on spatial scale. <i>Climate Dynamics</i> , 2017, 48, 1297-1307.	3.8	23
15	The atmospheric frontal response to SST perturbations in the Gulf Stream region. <i>Geophysical Research Letters</i> , 2016, 43, 2299-2306.	4.0	89
16	On the contribution of synoptic transients to the mean atmospheric state in the Gulf Stream region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 1554-1561.	2.7	32
17	The effects of increasing humidity on heat transport by extratropical waves. <i>Geophysical Research Letters</i> , 2016, 43, 8314-8321.	4.0	5
18	Estimates of Air-Sea Feedbacks on Sea Surface Temperature Anomalies in the Southern Ocean. <i>Journal of Climate</i> , 2016, 29, 439-454.	3.2	26

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19	A potential vorticity signature for the cold sector of winter extratropical cyclones. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 432-442.	2.7	18
20	On local and zonal pulses of atmospheric heat transport in reanalysis data. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2376-2389.	2.7	6
21	An analytic model of tropical cyclone wind profiles. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3018-3029.	2.7	26
22	The response of the Pacific storm track and atmospheric circulation to Kuroshio Extension variability. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 52-66.	2.7	128
23	Why is there net surface heating over the Antarctic Circumpolar Current?. Ocean Dynamics, 2015, 65, 751-760.	2.2	5
24	Some considerations on the spectral features of meridional heat transport by transient eddies. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1377-1386.	2.7	6
25	Seasonal and interannual variability of an index of deep atmospheric convection over western boundary currents. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 22-30.	2.7	17
26	Deconstructing the Hadley cell heat transport. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 2181-2189.	2.7	25
27	On the sporadic nature of meridional heat transport by transient eddies. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 999-1008.	2.7	21
28	The observed signature of mesoscale eddies in sea surface temperature and the associated heat transport. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 70, 60-72.	1.4	109
29	The emergence of zonal ocean jets under large-scale stochastic wind forcing. Geophysical Research Letters, 2012, 39, .	4.0	6
30	A new mechanism for ocean-atmosphere coupling in midlatitudes. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1095-1101.	2.7	48
31	The Global Atmospheric Circulation in Moist Isentropic Coordinates. Journal of Climate, 2010, 23, 3077-3093.	3.2	83
32	Atmospheric Control on the Thermohaline Circulation. Journal of Physical Oceanography, 2009, 39, 234-247.	1.7	23
33	Observations of Entry and Exit of Potential Vorticity at the Sea Surface. Journal of Physical Oceanography, 2009, 39, 2280-2294.	1.7	15
34	A New Climatology of Air-Sea Density Fluxes and Surface Water Mass Transformation Rates Constrained by WOCE. Journal of Physical Oceanography, 2009, 39, 1432-1447.	1.7	6
35	The Global Atmospheric Circulation on Moist Isentropes. Science, 2008, 321, 1075-1078.	12.6	126
36	Carbon dioxide and oxygen fluxes in the Southern Ocean: Mechanisms of interannual variability. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	53

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37	Sea Surface Temperature Variability along the Path of the Antarctic Circumpolar Current. <i>Journal of Physical Oceanography</i> , 2006, 36, 1317-1331.	1.7	54
38	The Partitioning of Poleward Heat Transport between the Atmosphere and Ocean. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1498-1511.	1.7	111
39	Impact of Anomalous Ocean Heat Transport on the North Atlantic Oscillation. <i>Journal of Climate</i> , 2005, 18, 4955-4969.	3.2	11
40	The role of Atlantic Ocean-atmosphere coupling in affecting North Atlantic oscillation variability. <i>Geophysical Monograph Series</i> , 2003, , 147-172.	0.1	63
41	Observed Impact of Atlantic SST Anomalies on the North Atlantic Oscillation. <i>Journal of Climate</i> , 2002, 15, 606-623.	3.2	489
42	A Diagnostic Study of the Role of Remote Forcing in Tropical Atlantic Variability. <i>Journal of Climate</i> , 2002, 15, 3280-3290.	3.2	231
43	An Idealized Model Study of the Mass and Heat Transports between the Subpolar and Subtropical Gyres. <i>Journal of Physical Oceanography</i> , 2001, 31, 2903-2916.	1.7	2
44	Observations of atmosphere-ocean coupling in the North Atlantic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1893-1916.	2.7	99
45	North Atlantic climate variability: phenomena, impacts and mechanisms. <i>International Journal of Climatology</i> , 2001, 21, 1863-1898.	3.5	860
46	Observations of atmosphere-ocean coupling in the North Atlantic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1893-1916.	2.7	3
47	On the interpretation of AGCMs response to prescribed time-varying SST anomalies. <i>Geophysical Research Letters</i> , 2000, 27, 1927-1930.	4.0	22
48	Influence of the North Atlantic SST on the atmospheric circulation. <i>Geophysical Research Letters</i> , 1999, 26, 2969-2972.	4.0	205
49	Airâ€“Sea Feedback in the North Atlantic and Surface Boundary Conditions for Ocean Models. <i>Journal of Climate</i> , 1998, 11, 2310-2324.	3.2	217