Arnaud Czaja

List of Publications by Year
in descending order

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49	3,631	236925	197818
papers	citations	25 h-index	49 g-index

50	50	50	3543
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	North Atlantic climate variability: phenomena, impacts and mechanisms. International Journal of Climatology, 2001, 21, 1863-1898.	3.5	860
2	Observed Impact of Atlantic SST Anomalies on the North Atlantic Oscillation. Journal of Climate, 2002, 15, 606-623.	3.2	489
3	A Diagnostic Study of the Role of Remote Forcing in Tropical Atlantic Variability. Journal of Climate, 2002, 15, 3280-3290.	3.2	231
4	Airâ€“Sea Feedback in the North Atlantic and Surface Boundary Conditions for Ocean Models. Journal of Climate, 1998, 11, 2310-2324.	3.2	217
5	Influence of the North Atlantic SST on the atmospheric circulation. Geophysical Research Letters, 1999, 26, 2969-2972.	4.0	205
6	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
7	The Global Atmospheric Circulation on Moist Isentropes. Science, 2008, 321, 1075-1078.	12.6	126
8	The Partitioning of Poleward Heat Transport between the Atmosphere and Ocean. Journals of the Atmospheric Sciences, 2006, 63, 1498-1511.	1.7	111
9	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
10	Observations of atmosphere-ocean coupling in the North Atlantic. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1893-1916.	2.7	99
11	The atmospheric frontal response to SST perturbations in the Gulf Stream region. Geophysical Research Letters, 2016, 43, 2299-2306.	4.0	89
12	The Global Atmospheric Circulation in Moist Isentropic Coordinates. Journal of Climate, 2010, 23, 3077-3093.	3.2	83
13	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?. Ocean Modelling, 2017, 120, 120-136.	2.4	79
14	The role of Atlantic Ocean-atmosphere coupling in affecting North Atlantic oscillation variability. Geophysical Monograph Series, 2003, , 147-172.	0.1	63
15	Sea Surface Temperature Variability along the Path of the Antarctic Circumpolar Current. Journal of Physical Oceanography, 2006, 36, 1317-1331.	1.7	54
16	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
17	The impact of SST resolution change in the ERAâ€Interim reanalysis on wintertime Gulf Stream frontal airâ€sea interaction. Geophysical Research Letters, 2017, 44, 3246-3254.	4.0	53
18	A new mechanism for oceanâ€“atmosphere coupling in midlatitudes. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1095-1101.	2.7	48

#	Article	IF	Citations
19	A simple diagnostic for the detection of atmospheric fronts. Geophysical Research Letters, 2017, 44, 4351-4358.	4.0	42
20	Quasiâ€stationary waves and their impact on European weather and extreme events. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2431-2448.	2.7	38
21	Simulating the Midlatitude Atmospheric Circulation: What Might We Gain From High-Resolution Modeling of Air-Sea Interactions?. Current Climate Change Reports, 2019, 5, 390-406.	8.6	35
22	On the contribution of synoptic transients to the mean atmospheric state in the Gulf Stream region. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1554-1561.	2.7	32
23	A â€œCold Pathâ€•for the Gulf Streamâ€“Troposphere Connection. Journal of Climate, 2017, 30, 1363-1379.	3.2	30
24	A â€˜warm pathâ€™ for Gulf Streamâ€“troposphere interactions. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 69, 1299397.	1.7	29
25	An analytic model of tropical cyclone wind profiles. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3018-3029.	2.7	26
26	Estimates of Airâ€“Sea Feedbacks on Sea Surface Temperature Anomalies in the Southern Ocean. Journal of Climate, 2016, 29, 439-454.	3.2	26
27	Deconstructing the Hadley cell heat transport. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 2181-2189.	2.7	25
28	Atmospheric Control on the Thermohaline Circulation. Journal of Physical Oceanography, 2009, 39, 234-247.	1.7	23
29	Mechanisms controlling the SST air-sea heat flux feedback and its dependence on spatial scale. Climate Dynamics, 2017, 48, 1297-1307.	3.8	23
30	On the interpretation of AGCMs response to prescribed time-varying SST anomalies. Geophysical Research Letters, 2000, 27, 1927-1930.	4.0	22
31	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
32	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
33	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
34	Labrador Slope Water connects the subarctic with the Gulf Stream. Environmental Research Letters, 2021, 16, 084019.	5.2	16
35	Observations of Entry and Exit of Potential Vorticity at the Sea Surface. Journal of Physical Oceanography, 2009, 39, 2280-2294.	1.7	15
36	On the Spatial and Temporal Variability of Atmospheric Heat Transport in a Hierarchy of Models. Journals of the Atmospheric Sciences, 2017, 74, 2163-2189.	1.7	15

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37	Poleward energy transport: is the standard definition physically relevant at all time scales?. Climate Dynamics, 2018, 50, 1785-1797.	3.8	15
38	Contribution of the cold sector of extratropical cyclones to mean state features over the Gulf Stream in winter. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1990-2000.	2.7	14
39	Impact of Anomalous Ocean Heat Transport on the North Atlantic Oscillation. Journal of Climate, 2005, 18, 4955-4969.	3.2	11
40	A New Climatology of Airâ€“Sea Density Fluxes and Surface Water Mass Transformation Rates Constrained by WOCE. Journal of Physical Oceanography, 2009, 39, 1432-1447.	1.7	6
41	The emergence of zonal ocean jets under largeâ€scale stochastic wind forcing. Geophysical Research Letters, 2012, 39, .	4.0	6
42	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
43	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
44	Why is there net surface heating over the Antarctic Circumpolar Current?. Ocean Dynamics, 2015, 65, 751-760.	2.2	5
45	The effects of increasing humidity on heat transport by extratropical waves. Geophysical Research Letters, 2016, 43, 8314-8321.	4.0	5
46	Observations of atmosphere-ocean coupling in the North Atlantic. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1893-1916.	2.7	3
47	An Idealized Model Study of the Mass and Heat Transports between the Subpolar and Subtropical Gyres. Journal of Physical Oceanography, 2001, 31, 2903-2916.	1.7	2
48	Mesoscale Signature of the North Atlantic Oscillation and Its Interaction With the Ocean. Geophysical Research Letters, 2019, 46, 5575-5581.	4.0	1
49	Ocean Heat Storage Rate Unaffected by MOC Weakening in an Idealized Climate Model. Geophysical Research Letters, 2020, 47, e2020GL089849.	4.0	1