

Arnaud Czaja

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,631
citations

236612

25
h-index

197535

49
g-index

50
all docs

50
docs citations

50
times ranked

3543
citing authors

#	ARTICLE	IF	CITATIONS
1	North Atlantic climate variability: phenomena, impacts and mechanisms. <i>International Journal of Climatology</i> , 2001, 21, 1863-1898.	1.5	860
2	Observed Impact of Atlantic SST Anomalies on the North Atlantic Oscillation. <i>Journal of Climate</i> , 2002, 15, 606-623.	1.2	489
3	A Diagnostic Study of the Role of Remote Forcing in Tropical Atlantic Variability. <i>Journal of Climate</i> , 2002, 15, 3280-3290.	1.2	231
4	Air-Sea Feedback in the North Atlantic and Surface Boundary Conditions for Ocean Models. <i>Journal of Climate</i> , 1998, 11, 2310-2324.	1.2	217
5	Influence of the North Atlantic SST on the atmospheric circulation. <i>Geophysical Research Letters</i> , 1999, 26, 2969-2972.	1.5	205
6	The response of the Pacific storm track and atmospheric circulation to Kuroshio Extension variability. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 52-66.	1.0	128
7	The Global Atmospheric Circulation on Moist Isentropes. <i>Science</i> , 2008, 321, 1075-1078.	6.0	126
8	The Partitioning of Poleward Heat Transport between the Atmosphere and Ocean. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1498-1511.	0.6	111
9	The observed signature of mesoscale eddies in sea surface temperature and the associated heat transport. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 70, 60-72.	0.6	109
10	Observations of atmosphere-ocean coupling in the North Atlantic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1893-1916.	1.0	99
11	The atmospheric frontal response to SST perturbations in the Gulf Stream region. <i>Geophysical Research Letters</i> , 2016, 43, 2299-2306.	1.5	89
12	The Global Atmospheric Circulation in Moist Isentropic Coordinates. <i>Journal of Climate</i> , 2010, 23, 3077-3093.	1.2	83
13	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?. <i>Ocean Modelling</i> , 2017, 120, 120-136.	1.0	79
14	The role of Atlantic Ocean-atmosphere coupling in affecting North Atlantic oscillation variability. <i>Geophysical Monograph Series</i> , 2003, , 147-172.	0.1	63
15	Sea Surface Temperature Variability along the Path of the Antarctic Circumpolar Current. <i>Journal of Physical Oceanography</i> , 2006, 36, 1317-1331.	0.7	54
16	Carbon dioxide and oxygen fluxes in the Southern Ocean: Mechanisms of interannual variability. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	1.9	53
17	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.	1.5	53
18	A new mechanism for ocean-atmosphere coupling in midlatitudes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1095-1101.	1.0	48

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19	A simple diagnostic for the detection of atmospheric fronts. <i>Geophysical Research Letters</i> , 2017, 44, 4351-4358.	1.5	42
20	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.	1.0	38
21	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.	2.8	35
22	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.	1.0	32
23	A “Cold Path” for the Gulf Stream-Troposphere Connection. <i>Journal of Climate</i> , 2017, 30, 1363-1379.	1.2	30
24	A “warm path” for Gulf Stream-troposphere interactions. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1299-1307.	0.8	29
25	An analytic model of tropical cyclone wind profiles. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 3018-3029.	1.0	26
26	Estimates of Air-Sea Feedbacks on Sea Surface Temperature Anomalies in the Southern Ocean. <i>Journal of Climate</i> , 2016, 29, 439-454.	1.2	26
27	Deconstructing the Hadley cell heat transport. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 2181-2189.	1.0	25
28	Atmospheric Control on the Thermohaline Circulation. <i>Journal of Physical Oceanography</i> , 2009, 39, 234-247.	0.7	23
29	Mechanisms controlling the SST air-sea heat flux feedback and its dependence on spatial scale. <i>Climate Dynamics</i> , 2017, 48, 1297-1307.	1.7	23
30	On the interpretation of AGCMs response to prescribed time-varying SST anomalies. <i>Geophysical Research Letters</i> , 2000, 27, 1927-1930.	1.5	22
31	On the sporadic nature of meridional heat transport by transient eddies. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 999-1008.	1.0	21
32	A potential vorticity signature for the cold sector of winter extratropical cyclones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 432-442.	1.0	18
33	Seasonal and interannual variability of an index of deep atmospheric convection over western boundary currents. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 22-30.	1.0	17
34	Labrador Slope Water connects the subarctic with the Gulf Stream. <i>Environmental Research Letters</i> , 2021, 16, 084019.	2.2	16
35	Observations of Entry and Exit of Potential Vorticity at the Sea Surface. <i>Journal of Physical Oceanography</i> , 2009, 39, 2280-2294.	0.7	15
36	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.	0.6	15

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37	Poleward energy transport: is the standard definition physically relevant at all time scales?. <i>Climate Dynamics</i> , 2018, 50, 1785-1797.	1.7	15
38	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.	1.0	14
39	Impact of Anomalous Ocean Heat Transport on the North Atlantic Oscillation. <i>Journal of Climate</i> , 2005, 18, 4955-4969.	1.2	11
40	A New Climatology of Air-Sea Density Fluxes and Surface Water Mass Transformation Rates Constrained by WOCE. <i>Journal of Physical Oceanography</i> , 2009, 39, 1432-1447.	0.7	6
41	The emergence of zonal ocean jets under large-scale stochastic wind forcing. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	6
42	Some considerations on the spectral features of meridional heat transport by transient eddies. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1377-1386.	1.0	6
43	On local and zonal pulses of atmospheric heat transport in reanalysis data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2376-2389.	1.0	6
44	Why is there net surface heating over the Antarctic Circumpolar Current?. <i>Ocean Dynamics</i> , 2015, 65, 751-760.	0.9	5
45	The effects of increasing humidity on heat transport by extratropical waves. <i>Geophysical Research Letters</i> , 2016, 43, 8314-8321.	1.5	5
46	Observations of atmosphere-ocean coupling in the North Atlantic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1893-1916.	1.0	3
47	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.	0.7	2
48	Mesoscale Signature of the North Atlantic Oscillation and Its Interaction With the Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 5575-5581.	1.5	1
49	Ocean Heat Storage Rate Unaffected by MOC Weakening in an Idealized Climate Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089849.	1.5	1