Eli Tziperman

List of Publications by Year in descending order

70 papers	3,214 citations	159585 30 h-index	155660 55 g-index
74 all docs	74 docs citations	74 times ranked	3679 citing authors

#	Article	IF	Citations
1	Spatial Patterns of the Tropical Meridional Circulation: Drivers and Teleconnections. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
2	Warmer Pliocene Upwelling Site SST Leads to Wetter Subtropical Coastal Areas: A Positive Feedback on SST. Paleoceanography and Paleoclimatology, 2022, 37, .	2.9	6
3	Deep Eastern Boundary Currents: Idealized Models and Dynamics. Journal of Physical Oceanography, 2021, 51, 989-1005.	1.7	1
4	The Role of Atmospheric Feedbacks in Abrupt Winter Arctic Sea Ice Loss in Future Warming Scenarios. Journal of Climate, 2021, 34, 4435-4447.	3.2	9
5	Laurentide Ice Saddle Mergers Drive Rapid Sea Level Drops During Glaciations. Geophysical Research Letters, 2021, 48, e2021GL094263.	4.0	4
6	Decoupling of the Arctic Oscillation and North Atlantic Oscillation in a warmer climate. Nature Climate Change, 2021, 11, 137-142.	18.8	35
7	Wetter Subtropics Lead to Reduced Pliocene Coastal Upwelling. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004243.	2.9	7
8	Dynamic Europa ocean shows transient Taylor columns and convection driven by ice melting and salinity. Nature Communications, 2021, 12, 6376.	12.8	21
9	Dynamics of Deep Ocean Eastern Boundary Currents. Geophysical Research Letters, 2020, 47, e2019GL085396.	4.0	4
10	Reconciling the observed mid-depth exponential ocean stratification with weak interior mixing and Southern Ocean dynamics via boundary-intensified mixing. European Physical Journal Plus, 2020, 135, 1.	2.6	3
11	Historical and Future Roles of Internal Atmospheric Variability in Modulating Summertime Greenland Ice Sheet Melt. Geophysical Research Letters, 2020, 47, e2019GL086913.	4.0	2
12	Listening to the Forest: An Artificial Neural Networkâ€Based Model of Carbon Uptake at Harvard Forest. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 461-478.	3.0	4
13	Tropical and extratropical general circulation with a meridional reversed temperature gradient as expected in a high obliquity planet. Icarus, 2019, 330, 142-154.	2.5	11
14	Reductions in Strong Upwellingâ€Favorable Wind Events in the Pliocene. Paleoceanography and Paleoclimatology, 2019, 34, 1931-1944.	2.9	7
15	S2S reboot: An argument for greater inclusion of machine learning in subseasonal to seasonal forecasts. Wiley Interdisciplinary Reviews: Climate Change, 2019, 10, e00567.	8.1	48
16	The Role of Zonal Asymmetry in the Enhancement and Suppression of Sudden Stratospheric Warming Variability by the Maddenâ€"Julian Oscillation. Journal of Climate, 2018, 31, 2399-2415.	3.2	7
17	The MJOâ€SSW Teleconnection: Interaction Between MJOâ€Forced Waves and the Midlatitude Jet. Geophysical Research Letters, 2018, 45, 4400-4409.	4.0	23
18	More-Persistent Weak Stratospheric Polar Vortex States Linked to Cold Extremes. Bulletin of the American Meteorological Society, 2018, 99, 49-60.	3.3	177

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19	Understanding Melting due to Ocean Eddy Heat Fluxes at the Edge of Seaâ€Ice Floes. Geophysical Research Letters, 2018, 45, 9721-9730.	4.0	10
20	Dynamics of the global meridional ice flow of Europaâ€™s icy shell. Nature Astronomy, 2018, 2, 43-49.	10.1	28
21	Exploring the nonlinear cloud and rain equation. Chaos, 2017, 27, 013107.	2.5	15
22	A full, self-consistent treatment of thermal wind balance on oblate fluid planets. Journal of Fluid Mechanics, 2017, 810, 175-195.	3.4	32
23	The effect of changes in surface winds and ocean stratification on coastal upwelling and sea surface temperatures in the Pliocene. Paleoceanography, 2017, 32, 371-383.	3.0	11
24	Suppression of Arctic Air Formation with Climate Warming: Investigation with a Two-Dimensional Cloud-Resolving Model. Journals of the Atmospheric Sciences, 2017, 74, 2717-2736.	1.7	10
25	More Frequent Sudden Stratospheric Warming Events due to Enhanced MJO Forcing Expected in a Warmer Climate. Journal of Climate, 2017, 30, 8727-8743.	3.2	45
26	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	10.3	424
27	The evolution of scaling laws in the sea ice floe size distribution. Journal of Geophysical Research: Oceans, 2017, 122, 7630-7650.	2.6	29
28	Winter Precipitation Forecast in the European and Mediterranean Regions Using Cluster Analysis. Geophysical Research Letters, 2017, 44, 12,418.	4.0	22
29	Variability, Instabilities, and Eddies in a Snowball Ocean. Journal of Climate, 2016, 29, 869-888.	3.2	15
30	Reductions in midlatitude upwelling-favorable winds implied by weaker large-scale Pliocene SST gradients. Paleoceanography, 2016, 31, 27-39.	3.0	8
31	The role of ice stream dynamics in deglaciation. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1540-1554.	2.8	14
32	Interaction of sea ice floe size, ocean eddies, and sea ice melting. Geophysical Research Letters, 2016, 43, 8083-8090.	4.0	69
33	Low clouds suppress Arctic air formation and amplify high-latitude continental winter warming. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11490-11495.	7.1	32
34	Process-based analysis of climate model ENSO simulations: Intermodel consistency and compensating errors. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7396-7409.	3.3	6
35	Effects of explicit atmospheric convection at high CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10943-10948.	7.1	24
36	Using transfer functions to quantify El NiÃ±o Southern Oscillation dynamics in data and models. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140272.	2.1	7

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37	The role of sea ice in the temperature-precipitation feedback of glacial cycles. Climate Dynamics, 2014, 43, 1001-1010.	3.8	9
38	Ocean Circulation under Globally Glaciated Snowball Earth Conditions: Steady-State Solutions. Journal of Physical Oceanography, 2014, 44, 24-43.	1.7	21
39	Nonâ€normal growth of Kelvinâ€"Helmholtz eddies in a sea breeze. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2147-2157.	2.7	2
40	Multiple sea-ice states and abrupt MOC transitions in a general circulation ocean model. Climate Dynamics, 2013, 40, 1803-1817.	3.8	7
41	Enhanced MJO-like Variability at High SST. Journal of Climate, 2013, 26, 988-1001.	3.2	79
42	Dynamics of a Snowball Earth ocean. Nature, 2013, 495, 90-93.	27.8	58
43	Abrupt Transition to Strong Superrotation Driven by Equatorial Wave Resonance in an Idealized GCM. Journals of the Atmospheric Sciences, 2012, 69, 626-640.	1.7	37
44	Continental constriction and oceanic iceâ€cover thickness in a Snowballâ€Earth scenario. Journal of Geophysical Research, 2012, 117, .	3.3	39
45	Correlation between presentâ€day model simulation of Arctic cloud radiative forcing and sea ice consistent with positive winter convective cloud feedback. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	10
46	Excitation of Intraseasonal Variability in the Equatorial Atmosphere by Yanai Wave Groups via WISHE-Induced Convection. Journals of the Atmospheric Sciences, 2011, 68, 210-225.	1.7	10
47	An Atmospheric Teleconnection Linking ENSO and Southwestern European Precipitation. Journal of Climate, 2011, 24, 124-139.	3.2	50
48	Predictability of SST-Modulated Westerly Wind Bursts. Journal of Climate, 2009, 22, 3894-3909.	3.2	45
49	Incorporating a semi-stochastic model of ocean-modulated westerly wind bursts into an ENSO prediction model. Theoretical and Applied Climatology, 2009, 97, 65-73.	2.8	23
50	Rain driven by receding ice sheets as a cause of past climate change. Paleoceanography, 2009, 24, .	3.0	47
51	Pliocene equatorial temperature: Lessons from atmospheric superrotation. Paleoceanography, 2009, 24, .	3.0	54
52	Spatiotemporal dynamics of ice streams due to a triple-valued sliding law. Journal of Fluid Mechanics, 2009, 640, 483-505.	3.4	17
53	A highâ€latitude convective cloud feedback and equable climates. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 165-185.	2.7	51
54	Sea ice, highâ€latitude convection, and equable climates. Geophysical Research Letters, 2008, 35, .	4.0	71

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55	Integrated summer insolation forcing and 40,000â€year glacial cycles: The perspective from an iceâ€sheet/energyâ€balance model. Paleoceanography, 2008, 23, .	3.0	51
56	Optimal Surface Excitation of the Thermohaline Circulation. Journal of Physical Oceanography, 2008, 38, 1820-1830.	1.7	16
57	Nonnormal Thermohaline Circulation Dynamics in a Coupled Oceanâ€"Atmosphere GCM. Journal of Physical Oceanography, 2008, 38, 588-604.	1.7	42
58	Carl Wunsch Special Issue. Journal of Physical Oceanography, 2007, 37, 133-134.	1.7	0
59	Summertime ENSOâ€"North Africanâ€"Asian Jet teleconnection and implications for the Indian monsoons. Geophysical Research Letters, 2007, 34, .	4.0	53
60	Scenarios regarding the lead of equatorial sea surface temperature over global ice volume. Paleoceanography, 2006, 21, n/a-n/a.	3.0	9
61	Consequences of pacing the Pleistocene 100 kyr ice ages by nonlinear phase locking to Milankovitch forcing. Paleoceanography, 2006, 21, .	3.0	109
62	The Effect of ENSO on Tibetan Plateau Snow Depth: A Stationary Wave Teleconnection Mechanism and Implications for the South Asian Monsoons. Journal of Climate, 2005, 18, 2067-2079.	3.2	164
63	Abrupt climate shifts in Greenland due to displacements of the sea ice edge. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	148
64	Rapid switch-like sea ice growth and land ice-sea ice hysteresis. Paleoceanography, 2004, 19, n/a-n/a.	3.0	18
65	A â€œtriple sea-ice stateâ€•mechanism for the abrupt warming and synchronous ice sheet collapses during Heinrich events. Paleoceanography, 2004, 19, n/a-n/a.	3.0	62
66	Sea ice switch mechanism and glacial-interglacial CO2variations. Global Biogeochemical Cycles, 2002, 16, 6-1-6-14.	4.9	43
67	Sea ice as the glacial cyclesâ€™ Climate switch: role of seasonal and orbital forcing. Paleoceanography, 2000, 15, 605-615.	3.0	160
68	Irregularity and Locking to the Seasonal Cycle in an ENSO Prediction Model as Explained by the Quasi-Periodicity Route to Chaos. Journals of the Atmospheric Sciences, 1995, 52, 293-306.	1.7	153
69	Rates of Water Mass Formation in the North Atlantic Ocean. Journal of Physical Oceanography, 1992, 22, 93-104.	1.7	255
70	On the Role of Interior Mixing and Air-Sea Fluxes in Determining the Stratification and Circulation of the Oceans. Journal of Physical Oceanography, 1986, 16, 680-693.	1.7	106