

Laure Zanna

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6449792/publications.pdf>

Version: 2024-02-01

60
papers

2,632
citations

218592

26
h-index

197736

49
g-index

66
all docs

66
docs citations

66
times ranked

3330
citing authors

#	ARTICLE	IF	CITATIONS
1	The future intensification of the North Atlantic winter storm track: the key role of dynamic ocean coupling. <i>Journal of Climate</i> , 2022, , 1-44.	1.2	1
2	GCM-Filters: A Python Package for Diffusion-based Spatial Filtering of Gridded Data. <i>Journal of Open Source Software</i> , 2022, 7, 3947.	2.0	9
3	Relating Patterns of Added and Redistributed Ocean Warming. <i>Journal of Climate</i> , 2022, 35, 4627-4643.	1.2	3
4	What causes the spread of model projections of ocean dynamic sea-level change in response to greenhouse gas forcing?. <i>Climate Dynamics</i> , 2021, 56, 155-187.	1.7	29
5	Stochastic Deep Learning Parameterization of Ocean Momentum Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002534.	1.3	33
6	Evaluation of the Local Sea Level Budget at Tide Gauges Since 1958. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094502.	1.5	28
7	The Influence of Warming Patterns on Passive Ocean Heat Uptake. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088429.	1.5	15
8	Resolving and Parameterising the Ocean Mesoscale in Earth System Models. <i>Current Climate Change Reports</i> , 2020, 6, 137-152.	2.8	62
9	Data-Driven Equation Discovery of Ocean Mesoscale Closures. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088376.	1.5	91
10	Heat and carbon coupling reveals ocean warming due to circulation changes. <i>Nature</i> , 2020, 584, 227-233.	13.7	71
11	Ocean-Only FAFMIP: Understanding Regional Patterns of Ocean Heat Content and Dynamic Sea Level Change. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002027.	1.3	24
12	The causes of sea-level rise since 1900. <i>Nature</i> , 2020, 584, 393-397.	13.7	292
13	Identifying a human signal in the North Atlantic warming hole. <i>Nature Communications</i> , 2020, 11, 1540.	5.8	48
14	Response of Storm-Related Extreme Sea Level along the U.S. Atlantic Coast to Combined Weather and Climate Forcing. <i>Journal of Climate</i> , 2020, 33, 3745-3769.	1.2	16
15	Surface Constraints on the Depth of the Atlantic Meridional Overturning Circulation: Southern Ocean versus North Atlantic. <i>Journal of Climate</i> , 2020, 33, 3125-3149.	1.2	12
16	Radiative Effects of Clouds and Water Vapor on an Axisymmetric Monsoon. <i>Journal of Climate</i> , 2020, 33, 8789-8811.	1.2	8
17	Climate Model Uncertainty and Trend Detection in Regional Sea Level Projections: A Review. <i>Surveys in Geophysics</i> , 2019, 40, 1631-1653.	2.1	13
18	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	51

#	ARTICLE	IF	CITATIONS
19	Investigating the predictability of North Atlantic sea surface height. <i>Climate Dynamics</i> , 2019, 53, 2175-2195.	1.7	5
20	An Interdecadal Shift of the Extratropical Teleconnection From the Tropical Pacific During Boreal Summer. <i>Geophysical Research Letters</i> , 2019, 46, 13379-13388.	1.5	11
21	Assessing External and Internal Sources of Atlantic Multidecadal Variability Using Models, Proxy Data, and Early Instrumental Indices. <i>Journal of Climate</i> , 2019, 32, 7727-7745.	1.2	26
22	Regional and Temporal Variability of Lateral Mixing in the North Atlantic. <i>Journal of Physical Oceanography</i> , 2019, 49, 2601-2614.	0.7	6
23	Uncertainty and scale interactions in ocean ensembles: From seasonal forecasts to multidecadal climate predictions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 160-175.	1.0	27
24	ENSO Bimodality and Extremes. <i>Geophysical Research Letters</i> , 2019, 46, 4883-4893.	1.5	8
25	Applications of Deep Learning to Ocean Data Inference and Subgrid Parameterization. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 376-399.	1.3	201
26	Remote and local influences in forecasting Pacific SST: a linear inverse model and a multimodel ensemble study. <i>Climate Dynamics</i> , 2019, 52, 3183-3201.	1.7	20
27	Global reconstruction of historical ocean heat storage and transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1126-1131.	3.3	180
28	Southern Ocean carbon-wind stress feedback. <i>Climate Dynamics</i> , 2018, 51, 2743-2757.	1.7	9
29	Lagrangian ocean analysis: Fundamentals and practices. <i>Ocean Modelling</i> , 2018, 121, 49-75.	1.0	313
30	Seasonal to annual ocean forecasting skill and the role of model and observational uncertainty. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1947-1964.	1.0	14
31	Eddy-mixing entropy and its maximization in forced-dissipative geostrophic turbulence. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 073206.	0.9	2
32	The relationship between a deformation-based eddy parameterization and the LANS- $\hat{\tau}$ turbulence model. <i>Ocean Modelling</i> , 2018, 126, 56-62.	1.0	9
33	The Signature of Oceanic Processes in Decadal Extratropical SST Anomalies. <i>Geophysical Research Letters</i> , 2018, 45, 7719-7730.	1.5	17
34	The Impact of Tropical Precipitation on Summertime Euro-Atlantic Circulation via a Circumglobal Wave Train. <i>Journal of Climate</i> , 2018, 31, 6481-6504.	1.2	44
35	Drivers of uncertainty in simulated ocean circulation and heat uptake. <i>Geophysical Research Letters</i> , 2017, 44, 1402-1413.	1.5	46
36	Scale-aware deterministic and stochastic parametrizations of eddy-mean flow interaction. <i>Ocean Modelling</i> , 2017, 111, 66-80.	1.0	61

#	ARTICLE	IF	CITATIONS
37	The Dynamical Influence of the Atlantic Multidecadal Oscillation on Continental Climate. <i>Journal of Climate</i> , 2017, 30, 7213-7230.	1.2	91
38	A deformation-based parametrization of ocean mesoscale eddy reynolds stresses. <i>Ocean Modelling</i> , 2017, 112, 99-111.	1.0	31
39	A note on "Toward a stochastic parameterization of ocean mesoscale eddies". <i>Ocean Modelling</i> , 2017, 113, 30-33.	1.0	11
40	The statistical nature of turbulent barotropic ocean jets. <i>Ocean Modelling</i> , 2017, 113, 34-49.	1.0	8
41	Stochastic Subgrid-Scale Ocean Mixing: Impacts on Low-Frequency Variability. <i>Journal of Climate</i> , 2017, 30, 4997-5019.	1.2	24
42	Seasonal and decadal forecasts of Atlantic Sea surface temperatures using a linear inverse model. <i>Climate Dynamics</i> , 2017, 49, 1833-1845.	1.7	19
43	The Impact of Horizontal Resolution on Energy Transfers in Global Ocean Models. <i>Fluids</i> , 2017, 2, 45.	0.8	32
44	The influence of Southern Ocean winds on the North Atlantic carbon sink. <i>Global Biogeochemical Cycles</i> , 2016, 30, 844-858.	1.9	12
45	Oceanic Stochastic Parameterizations in a Seasonal Forecast System. <i>Monthly Weather Review</i> , 2016, 144, 1867-1875.	0.5	24
46	The signature of low-frequency oceanic forcing in the Atlantic Multidecadal Oscillation. <i>Geophysical Research Letters</i> , 2016, 43, 2810-2818.	1.5	108
47	Suppression of Atlantic Meridional Overturning Circulation Variability at Increased CO2. <i>Journal of Climate</i> , 2016, 29, 4155-4164.	1.2	12
48	Optimisation of an idealised ocean model, stochastic parameterisation of sub-grid eddies. <i>Ocean Modelling</i> , 2015, 88, 38-53.	1.0	31
49	A Conceptual Model of Ocean Heat Uptake under Climate Change. <i>Journal of Climate</i> , 2014, 27, 8444-8465.	1.2	58
50	Toward a stochastic parameterization of ocean mesoscale eddies. <i>Ocean Modelling</i> , 2014, 79, 1-20.	1.0	111
51	Singular vectors, predictability and ensemble forecasting for weather and climate. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254018.	0.7	23
52	Tide-surge adjoint modeling: A new technique to understand forecast uncertainty. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5092-5108.	1.0	4
53	Frequency Domain Multimodel Analysis of the Response of Atlantic Meridional Overturning Circulation to Surface Forcing. <i>Journal of Climate</i> , 2013, 26, 8323-8340.	1.2	20
54	Forecast Skill and Predictability of Observed Atlantic Sea Surface Temperatures. <i>Journal of Climate</i> , 2012, 25, 5047-5056.	1.2	43

#	ARTICLE	IF	CITATIONS
55	Upper-ocean singular vectors of the North Atlantic climate with implications for linear predictability and variability. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 500-513.	1.0	25
56	Optimal Excitation of Interannual Atlantic Meridional Overturning Circulation Variability. Journal of Climate, 2011, 24, 413-427.	1.2	36
57	The Role of Ocean Dynamics in the Optimal Growth of Tropical SST Anomalies. Journal of Physical Oceanography, 2010, 40, 983-1003.	0.7	7
58	Optimal Surface Excitation of the Thermohaline Circulation. Journal of Physical Oceanography, 2008, 38, 1820-1830.	0.7	16
59	Nonnormal Thermohaline Circulation Dynamics in a Coupled Ocean-Atmosphere GCM. Journal of Physical Oceanography, 2008, 38, 588-604.	0.7	42
60	Nonnormal Amplification of the Thermohaline Circulation. Journal of Physical Oceanography, 2005, 35, 1593-1605.	0.7	31