

Nicole Lovenduski

List of Publications by Year in descending order

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68
papers

3,829
citations

147801

31
h-index

138484

58
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105
all docs

105
docs citations

105
times ranked

4276
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020, 10, 277-286.	18.8	436
2	Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. <i>Biogeosciences</i> , 2020, 17, 3439-3470.	3.3	348
3	Enhanced CO ₂ outgassing in the Southern Ocean from a positive phase of the Southern Annular Mode. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	226
4	Toward a mechanistic understanding of the decadal trends in the Southern Ocean carbon sink. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	202
5	Impact of the Southern Annular Mode on Southern Ocean circulation and biology. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	194
6	Predicting Near-Term Changes in the Earth System: A Large Ensemble of Initialized Decadal Prediction Simulations Using the Community Earth System Model. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1867-1886.	3.3	166
7	The Variable Southern Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2019, 11, 159-186.	11.6	165
8	Sea-air CO ₂ fluxes in the Southern Ocean for the period 1990-2009. <i>Biogeosciences</i> , 2013, 10, 4037-4054.	3.3	162
9	Timescales for detection of trends in the ocean carbon sink. <i>Nature</i> , 2016, 530, 469-472.	27.8	110
10	Natural Variability and Anthropogenic Trends in the Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2017, 9, 125-150.	11.6	100
11	Coccolithophore growth and calcification in a changing ocean. <i>Progress in Oceanography</i> , 2017, 159, 276-295.	3.2	89
12	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	29.7	85
13	Reducing uncertainty in projections of terrestrial carbon uptake. <i>Environmental Research Letters</i> , 2017, 12, 044020.	5.2	84
14	Recent evidence for a strengthening CO ₂ sink in the Southern Ocean from carbonate system measurements in the Drake Passage (2002-2015). <i>Geophysical Research Letters</i> , 2015, 42, 7623-7630.	4.0	70
15	External Forcing Explains Recent Decadal Variability of the Ocean Carbon Sink. <i>AGU Advances</i> , 2020, 1, e2019AV000149.	5.4	67
16	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006788.	4.9	60
17	Partitioning uncertainty in ocean carbon uptake projections: Internal variability, emission scenario, and model structure. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1276-1287.	4.9	55
18	Estimates of net community production in the Southern Ocean determined from time series observations (2002-2011) of nutrients, dissolved inorganic carbon, and surface ocean pCO ₂ in Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 114, 49-63.	1.4	43

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19	Avoidable impacts of ocean warming on marine primary production: Insights from the CESM ensembles. <i>Global Biogeochemical Cycles</i> , 2017, 31, 114-133.	4.9	43
20	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. <i>Science Advances</i> , 2019, 5, eaay5478.	10.3	43
21	Sudden emergence of a shallow aragonite saturation horizon in the Southern Ocean. <i>Nature Climate Change</i> , 2019, 9, 313-317.	18.8	42
22	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
23	Southern Ocean carbon trends: Sensitivity to methods. <i>Geophysical Research Letters</i> , 2014, 41, 6833-6840.	4.0	39
24	Mesoscale Effects on Carbon Export: A Global Perspective. <i>Global Biogeochemical Cycles</i> , 2018, 32, 680-703.	4.9	39
25	Apparent increase in coccolithophore abundance in the subtropical North Atlantic from 1990 to 2014. <i>Biogeosciences</i> , 2016, 13, 1163-1177.	3.3	38
26	Predicting near-term variability in ocean carbon uptake. <i>Earth System Dynamics</i> , 2019, 10, 45-57.	7.1	38
27	Coccolithophore Growth and Calcification in an Acidified Ocean: Insights From Community Earth System Model Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1418-1437.	3.8	38
28	Emergent anthropogenic trends in California Current upwelling. <i>Geophysical Research Letters</i> , 2017, 44, 5044-5052.	4.0	37
29	Observing multidecadal trends in Southern Ocean CO ₂ uptake: What can we learn from an ocean model?. <i>Global Biogeochemical Cycles</i> , 2015, 29, 416-426.	4.9	35
30	The future evolution of the Southern Ocean CO ₂ sink. <i>Journal of Marine Research</i> , 2009, 67, 597-617.	0.3	34
31	The transient response of the Southern Ocean pycnocline to changing atmospheric winds. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	34
32	Multi-decadal trends in the advection and mixing of natural carbon in the Southern Ocean. <i>Geophysical Research Letters</i> , 2013, 40, 139-142.	4.0	34
33	Temporal variability in the Antarctic Polar Front (2002–2014). <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7263-7276.	2.6	33
34	Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean CO ₂ uptake. <i>Biogeosciences</i> , 2018, 15, 3841-3855.	3.3	32
35	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	32
36	Mapping the Antarctic Polar Front: weekly realizations from 2002 to 2014. <i>Earth System Science Data</i> , 2016, 8, 191-198.	9.9	32

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37	Detecting Regional Modes of Variability in Observation-Based Surface Ocean CO_2 . Geophysical Research Letters, 2019, 46, 2670-2679.	4.0	31
38	Decreased calcification in the Southern Ocean over the satellite record. Geophysical Research Letters, 2015, 42, 1834-1840.	4.0	27
39	On the role of climate modes in modulating the air-sea CO_2 fluxes in eastern boundary upwelling systems. Biogeosciences, 2019, 16, 329-346.	3.3	27
40	Variability of Sea Level and Upper-Ocean Heat Content in the Indian Ocean: Effects of Subtropical Indian Ocean Dipole and ENSO. Journal of Climate, 2019, 32, 7227-7245.	3.2	25
41	Natural variability in the surface ocean carbonate ion concentration. Biogeosciences, 2015, 12, 6321-6335.	3.3	25
42	Response of O_2 and pH to ENSO in the California Current System in a high-resolution global climate model. Ocean Science, 2018, 14, 69-86.	3.4	23
43	The Variable and Changing Southern Ocean Silicate Front: Insights From the CESM Large Ensemble. Global Biogeochemical Cycles, 2018, 32, 752-768.	4.9	22
44	Potential Predictability of Net Primary Production in the Ocean. Global Biogeochemical Cycles, 2020, 34, e2020GB006531.	4.9	22
45	High predictability of terrestrial carbon fluxes from an initialized decadal prediction system. Environmental Research Letters, 2019, 14, 124074.	5.2	19
46	Marine wild-capture fisheries after nuclear war. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29748-29758.	7.1	18
47	Skillful multiyear predictions of ocean acidification in the California Current System. Nature Communications, 2020, 11, 2166.	12.8	17
48	Predictable Variations of the Carbon Sinks and Atmospheric CO_2 Growth in a Multi-Model Framework. Geophysical Research Letters, 2021, 48, e2020GL090695.	4.0	17
49	Nuclear $\text{Ni}^{\pm\sigma}$ response observed in simulations of nuclear war scenarios. Communications Earth & Environment, 2021, 2, .	6.8	15
50	Finding the Fingerprint of Anthropogenic Climate Change in Marine Phytoplankton Abundance. Current Climate Change Reports, 2020, 6, 37-46.	8.6	14
51	A New Ocean State After Nuclear War. AGU Advances, 2022, 3, .	5.4	14
52	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035079.	3.3	13
53	Ocean Biogeochemical Signatures of the North Pacific Blob. Geophysical Research Letters, 2022, 49, .	4.0	12
54	Climate-Driven Variability in the Southern Ocean Carbonate System. Journal of Climate, 2015, 28, 5335-5350.	3.2	10

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55	How an India-Pakistan nuclear war could start—and have global consequences. <i>Bulletin of the Atomic Scientists</i> , 2019, 75, 273-279.	0.6	10
56	Summer High-Wind Events and Phytoplankton Productivity in the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016565.	2.6	10
57	Southern Annular Mode Influence on Wintertime Ventilation of the Southern Ocean Detected in Atmospheric O ₂ and CO ₂ Measurements. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085667.	4.0	10
58	Effects of Langmuir Turbulence on Upper Ocean Carbonate Chemistry. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3030-3048.	3.8	9
59	The Ocean Carbon Response to COVID-Related Emissions Reductions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092263.	4.0	9
60	Hydrologic and Isotopic Modeling of Alpine Lake Waiau, Mauna Kea, Hawai'i. <i>Pacific Science</i> , 2005, 59, 1-15.	0.6	8
61	The Influence of Ocean Topography on the Upwelling of Carbon in the Southern Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095088.	4.0	8
62	The Potential Impact of Nuclear Conflict on Ocean Acidification. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086246.	4.0	7
63	Mechanisms of northern North Atlantic biomass variability. <i>Biogeosciences</i> , 2018, 15, 6049-6066.	3.3	6
64	Net Community Production in the Southern Ocean: Insights From Comparing Atmospheric Potential Oxygen to Satellite Ocean Color Algorithms and Ocean Models. <i>Geophysical Research Letters</i> , 2018, 45, 10,549-10,559.	4.0	6
65	Internal Variability Dominates Over Externally Forced Ocean Circulation Changes Seen Through CFCs. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087585.	4.0	3
66	Alternate Histories: Synthetic Large Ensembles of Sea-Air CO ₂ Flux. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	3
67	Alternate History: A Synthetic Ensemble of Ocean Chlorophyll Concentrations. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006924.	4.9	2
68	On the Detection of COVID-Driven Changes in Atmospheric Carbon Dioxide. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095396.	4.0	2