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 g-index
105 all docs	105 docs citations	105 times ranked	4276 citing authors

#	Article	IF	Citations
1	Ocean Biogeochemical Signatures of the North Pacific Blob. Geophysical Research Letters, 2022, 49, .	4.0	12
2	Alternate Histories: Synthetic Large Ensembles of Seaâ€Air CO₂ Flux. Global Biogeochemical Cycles, 2022, 36, .	4.9	3
3	A New Ocean State After Nuclear War. AGU Advances, 2022, 3, .	5.4	14
4	Nuclear NiÃ±o response observed in simulations of nuclear war scenarios. Communications Earth & Environment, 2021, 2, .	6.8	15
5	The Ocean Carbon Response to COVIDâ€Related Emissions Reductions. Geophysical Research Letters, 2021, 48, e2020GL092263.	4.0	9
6	Predictable Variations of the Carbon Sinks and Atmospheric CO₂Growth in a Multiâ€Model Framework. Geophysical Research Letters, 2021, 48, e2020GL090695.	4.0	17
7	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. Global Biogeochemical Cycles, 2021, 35, e2020GB006788.	4.9	60
8	Initialized Earth System prediction from subseasonal to decadal timescales. Nature Reviews Earth & Environment, 2021, 2, 340-357.	29.7	85
9	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035079.	3.3	13
10	Alternate History: A Synthetic Ensemble of Ocean Chlorophyll Concentrations. Global Biogeochemical Cycles, 2021, 35, e2020GB006924.	4.9	2
11	The Influence of Ocean Topography on the Upwelling of Carbon in the Southern Ocean. Geophysical Research Letters, 2021, 48, e2021GL095088.	4.0	8
12	On the Detection of COVIDâ€Driven Changes in Atmospheric Carbon Dioxide. Geophysical Research Letters, 2021, 48, e2021GL095396.	4.0	2
13	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42
14	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
15	Summer Highâ€Wind Events and Phytoplankton Productivity in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016565.	2.6	10
16	External Forcing Explains Recent Decadal Variability of the Ocean Carbon Sink. AGU Advances, 2020, 1, e2019AV000149.	5.4	67
17	Potential Predictability of Net Primary Production in the Ocean. Global Biogeochemical Cycles, 2020, 34, e2020GB006531.	4.9	22
18	Finding the Fingerprint of Anthropogenic Climate Change in Marine Phytoplankton Abundance. Current Climate Change Reports, 2020, 6, 37-46.	8.6	14

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19	Insights from Earth system model initial-condition large ensembles and future prospects. Nature Climate Change, 2020, 10, 277-286.	18.8	436
20	Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. Biogeosciences, 2020, 17, 3439-3470.	3.3	348
21	Southern Annular Mode Influence on Wintertime Ventilation of the Southern Ocean Detected in Atmospheric O₂ and CO₂ Measurements. Geophysical Research Letters, 2020, 47, e2019GL085667.	4.0	10
22	The Potential Impact of Nuclear Conflict on Ocean Acidification. Geophysical Research Letters, 2020, 47, e2019GL086246.	4.0	7
23	Skillful multiyear predictions of ocean acidification in the California Current System. Nature Communications, 2020, 11, 2166.	12.8	17
24	Internal Variability Dominates Over Externally Forced Ocean Circulation Changes Seen Through <scp>CFCs</scp>. Geophysical Research Letters, 2020, 47, e2020GL087585.	4.0	3
25	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
26	How an India-Pakistan nuclear war could startâ€”and have global consequences. Bulletin of the Atomic Scientists, 2019, 75, 273-279.	0.6	10
27	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. Science Advances, 2019, 5, eaay5478.	10.3	43
28	Predicting near-term variability in ocean carbon uptake. Earth System Dynamics, 2019, 10, 45-57.	7.1	38
29	Detecting Regional Modes of Variability in Observationâ€Based Surface Ocean pCO₂. Geophysical Research Letters, 2019, 46, 2670-2679.	4.0	31
30	Sudden emergence of a shallow aragonite saturation horizon in the Southern Ocean. Nature Climate Change, 2019, 9, 313-317.	18.8	42
31	Coccolithophore Growth and Calcification in an Acidified Ocean: Insights From Community Earth System Model Simulations. Journal of Advances in Modeling Earth Systems, 2019, 11, 1418-1437.	3.8	38
32	On the role of climate modes in modulating the airâ€“sea CO₂ fluxes in eastern boundary upwelling systems. Biogeosciences, 2019, 16, 329-346.	3.3	27
33	High predictability of terrestrial carbon fluxes from an initialized decadal prediction system. Environmental Research Letters, 2019, 14, 124074.	5.2	19
34	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. Frontiers in Marine Science, 2019, 6, .	2.5	32
35	The Variable Southern Ocean Carbon Sink. Annual Review of Marine Science, 2019, 11, 159-186.	11.6	165
36	Effects of Langmuir Turbulence on Upper Ocean Carbonate Chemistry. Journal of Advances in Modeling Earth Systems, 2018, 10, 3030-3048.	3.8	9

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37	Mechanisms of northern North Atlantic biomass variability. Biogeosciences, 2018, 15, 6049-6066.	3.3	6
38	The Variable and Changing Southern Ocean Silicate Front: Insights From the CESM Large Ensemble. Global Biogeochemical Cycles, 2018, 32, 752-768.	4.9	22
39	Net Community Production in the Southern Ocean: Insights From Comparing Atmospheric Potential Oxygen to Satellite Ocean Color Algorithms and Ocean Models. Geophysical Research Letters, 2018, 45, 10,549-10,559.	4.0	6
40	Predicting Near-Term Changes in the Earth System: A Large Ensemble of Initialized Decadal Prediction Simulations Using the Community Earth System Model. Bulletin of the American Meteorological Society, 2018, 99, 1867-1886.	3.3	166
41	Response of O₂ 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
42	Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean <i>p</i>CO₂. Biogeosciences, 2018, 15, 3841-3855.	3.3	32
43	Mesoscale Effects on Carbon Export: A Global Perspective. Global Biogeochemical Cycles, 2018, 32, 680-703.	4.9	39
44	Emergent anthropogenic trends in California Current upwelling. Geophysical Research Letters, 2017, 44, 5044-5052.	4.0	37
45	Coccolithophore growth and calcification in a changing ocean. Progress in Oceanography, 2017, 159, 276-295.	3.2	89
46	Reducing uncertainty in projections of terrestrial carbon uptake. Environmental Research Letters, 2017, 12, 044020.	5.2	84
47	Natural Variability and Anthropogenic Trends in the Ocean Carbon Sink. Annual Review of Marine Science, 2017, 9, 125-150.	11.6	100
48	Avoidable impacts of ocean warming on marine primary production: Insights from the CESM ensembles. Global Biogeochemical Cycles, 2017, 31, 114-133.	4.9	43
49	Apparent increase in coccolithophore abundance in the subtropical North Atlantic from 1990 to 2014. Biogeosciences, 2016, 13, 1163-1177.	3.3	38
50	Temporal variability in the Antarctic Polar Front (2002â€“2014). Journal of Geophysical Research: Oceans, 2016, 121, 7263-7276.	2.6	33
51	Partitioning uncertainty in ocean carbon uptake projections: Internal variability, emission scenario, and model structure. Global Biogeochemical Cycles, 2016, 30, 1276-1287.	4.9	55
52	Timescales for detection of trends in the ocean carbon sink. Nature, 2016, 530, 469-472.	27.8	110
53	Mapping the Antarctic Polar Front: weekly realizations from 2002 to 2014. Earth System Science Data, 2016, 8, 191-198.	9.9	32
54	Recent evidence for a strengthening CO₂ sink in the Southern Ocean from carbonate system measurements in the Drake Passage (2002â€“2015). Geophysical Research Letters, 2015, 42, 7623-7630.	4.0	70

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55	Estimates of net community production in the Southern Ocean determined from time series observations (2002â€“2011) of nutrients, dissolved inorganic carbon, and surface ocean pCO2 in Drake Passage. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 114, 49-63.	1.4	43
56	Decreased calcification in the Southern Ocean over the satellite record. Geophysical Research Letters, 2015, 42, 1834-1840.	4.0	27
57	Observing multidecadal trends in Southern Ocean CO₂ uptake: What can we learn from an ocean model?. Global Biogeochemical Cycles, 2015, 29, 416-426.	4.9	35
58	Climate-Driven Variability in the Southern Ocean Carbonate System. Journal of Climate, 2015, 28, 5335-5350.	3.2	10
59	Natural variability in the surface ocean carbonate ion concentration. Biogeosciences, 2015, 12, 6321-6335.	3.3	25
60	Southern Ocean carbon trends: Sensitivity to methods. Geophysical Research Letters, 2014, 41, 6833-6840.	4.0	39
61	Multiâ€decadal trends in the advection and mixing of natural carbon in the Southern Ocean. Geophysical Research Letters, 2013, 40, 139-142.	4.0	34
62	Seaâ€“air CO₂ fluxes in the Southern Ocean for the period 1990â€“2009. Biogeosciences, 2013, 10, 4037-4054.	3.3	162
63	The transient response of the Southern Ocean pycnocline to changing atmospheric winds. Geophysical Research Letters, 2011, 38, .	4.0	34
64	The future evolution of the Southern Ocean CO₂ sink. Journal of Marine Research, 2009, 67, 597-617.	0.3	34
65	Toward a mechanistic understanding of the decadal trends in the Southern Ocean carbon sink. Global Biogeochemical Cycles, 2008, 22, .	4.9	202
66	Enhanced CO2outgassing in the Southern Ocean from a positive phase of the Southern Annular Mode. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	226
67	Hydrologic and Isotopic Modeling of Alpine Lake Waiau, Mauna Kea, Hawai'i. Pacific Science, 2005, 59, 1-15.	0.6	8
68	Impact of the Southern Annular Mode on Southern Ocean circulation and biology. Geophysical Research Letters, 2005, 32, .	4.0	194