

Andrew Lenton

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

10,035
citations

101543

36
h-index

69250

77
g-index

100
all docs

100
docs citations

100
times ranked

13713
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
2	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
3	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
4	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
5	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
6	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	9.9	463
7	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
8	Global ocean carbon uptake: magnitude, variability and trends. Biogeosciences, 2013, 10, 1983-2000.	3.3	276
9	Carbon concentration and carbon climate feedbacks in CMIP6 models and their comparison to CMIP5 models. Biogeosciences, 2020, 17, 4173-4222.	3.3	255
10	The Australian Earth System Model: ACCESS-ESM1.5. Journal of Southern Hemisphere Earth Systems Science, 2020, 70, 193-214.	1.8	215
11	Antarctic climate change and the environment. Antarctic Science, 2009, 21, 541-563.	0.9	195
12	Localized subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans. Nature Geoscience, 2012, 5, 579-584.	12.9	166
13	Sea-air CO ₂ fluxes in the Southern Ocean for the period 1990-2009. Biogeosciences, 2013, 10, 4037-4054.	3.3	162
14	A uniform, quality controlled Surface Ocean CO ₂ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	9.9	158
15	Role of the Southern Annular Mode (SAM) in Southern Ocean CO ₂ uptake. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	130
16	Evaluation of a near-global eddy-resolving ocean model. Geoscientific Model Development, 2013, 6, 591-615.	3.6	128
17	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. Frontiers in Marine Science, 2020, 7, .	2.5	114
18	The Carbon Dioxide Removal Model Intercomparison Project (CDRMIP): rationale and experimental protocol for CMIP6. Geoscientific Model Development, 2018, 11, 1133-1160.	3.6	113

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19	Stratospheric ozone depletion reduces ocean carbon uptake and enhances ocean acidification. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	108
20	Gridded maps of geological methane emissions and their isotopic signature. <i>Earth System Science Data</i> , 2019, 11, 1-22.	9.9	102
21	Surface Ocean CO ₂ Atlas (SOCAT) gridded data products. <i>Earth System Science Data</i> , 2013, 5, 145-153.	9.9	101
22	Land radiative management as contributor to regional-scale climate adaptation and mitigation. <i>Nature Geoscience</i> , 2018, 11, 88-96.	12.9	96
23	Decadal trends in the ocean carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11646-11651.	7.1	94
24	The carbon cycle in the Australian Community Climate and Earth System Simulator (ACCESS-ESM1) – Part 1: Model description and pre-industrial simulation. <i>Geoscientific Model Development</i> , 2017, 10, 2567-2590.	3.6	93
25	The observed evolution of oceanic pCO ₂ and its drivers over the last two decades. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	83
26	Evaluating Southern Ocean Carbon Eddy Pump From Biogeochemical Argo Floats. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 971-984.	2.6	69
27	Air-sea CO ₂ flux in the Pacific Ocean for the period 1990-2009. <i>Biogeosciences</i> , 2014, 11, 709-734.	3.3	68
28	Recent acceleration of the sea surface CO ₂ growth rate in the North Atlantic subpolar gyre (1993-2008) revealed by winter observations. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	67
29	The exposure of the Great Barrier Reef to ocean acidification. <i>Nature Communications</i> , 2016, 7, 10732.	12.8	58
30	The Effects of Carbon Dioxide Removal on the Carbon Cycle. <i>Current Climate Change Reports</i> , 2018, 4, 250-265.	8.6	58
31	Evidence of a prolonged drought ca. 4200 yr BP correlated with prehistoric settlement abandonment from the Gueldaman GLD1 Cave, Northern Algeria. <i>Climate of the Past</i> , 2016, 12, 1-14.	3.4	55
32	Current understanding and challenges for oceans in a higher-CO ₂ world. <i>Nature Climate Change</i> , 2018, 8, 686-694.	18.8	55
33	Impact of Historical Climate Change on the Southern Ocean Carbon Cycle. <i>Journal of Climate</i> , 2008, 21, 5820-5834.	3.2	48
34	Sea-air CO ₂ fluxes in the Indian Ocean between 1990 and 2009. <i>Biogeosciences</i> , 2013, 10, 7035-7052.	3.3	47
35	Long-term surface pCO ₂ trends from observations and models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 66, 23083.	1.6	46
36	Inter-annual variability of the carbon dioxide oceanic sink south of Tasmania. <i>Biogeosciences</i> , 2008, 5, 141-155.	3.3	42

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37	Coral bleaching pathways under the control of regional temperature variability. <i>Nature Climate Change</i> , 2017, 7, 839-844.	18.8	40
38	Vertical Eddy Fluxes in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2013, 43, 941-955.	1.7	39
39	Response to marine cloud brightening in a multi-model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 621-634.	4.9	37
40	Assessing carbon dioxide removal through global and regional ocean alkalization under high and low emission pathways. <i>Earth System Dynamics</i> , 2018, 9, 339-357.	7.1	37
41	Optimising reef-scale CO ₂ removal by seaweed to buffer ocean acidification. <i>Environmental Research Letters</i> , 2016, 11, 034023.	5.2	36
42	The carbon cycle in the Australian Community Climate and Earth System Simulator (ACCESS-ESM1) – Part 2: Historical simulations. <i>Geoscientific Model Development</i> , 2017, 10, 2591-2614.	3.6	36
43	Atlantic hurricane surge response to geoengineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13794-13799.	7.1	34
44	Eddy-induced carbon transport across the Antarctic Circumpolar Current. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1368-1386.	4.9	32
45	The simulated climate of the Last Glacial Maximum and insights into the global marine carbon cycle. <i>Climate of the Past</i> , 2016, 12, 2271-2295.	3.4	31
46	Sea Ice Meltwater and Circumpolar Deep Water Drive Contrasting Productivity in Three Antarctic Polynyas. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2943-2968.	2.6	31
47	Design of an observational strategy for quantifying the Southern Ocean uptake of CO ₂ . <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	30
48	Stationary Rossby waves dominate subduction of anthropogenic carbon in the Southern Ocean. <i>Scientific Reports</i> , 2017, 7, 17076.	3.3	27
49	Impact of episodic vertical fluxes on sea surface pCO ₂ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2009-2025.	3.4	26
50	Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10133-10156.	4.9	25
51	Seasonal variability of aragonite saturation state in the Western Pacific. <i>Marine Chemistry</i> , 2014, 161, 1-13.	2.3	23
52	Marine projections of warming and ocean acidification in the Australasian region. , 2015, 65, S1-S28.		23
53	Integrated modelling to support decision-making for marine social-ecological systems in Australia. <i>ICES Journal of Marine Science</i> , 2017, 74, 2298-2308.	2.5	22
54	Land and ocean nutrient and carbon cycle interactions. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 258-263.	6.3	21

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55	Quantifying the influence of CO ₂ seasonality on future aragonite undersaturation onset. <i>Biogeosciences</i> , 2015, 12, 6017-6031.	3.3	21
56	Proactive, Reactive, and Inactive Pathways for Scientists in a Changing World. <i>Earth's Future</i> , 2019, 7, 60-73.	6.3	21
57	Quantifying the impact of ocean acidification on our future climate. <i>Biogeosciences</i> , 2014, 11, 3965-3983.	3.3	19
58	Impact of the GeoMIP G1 sunshade geoengineering experiment on the Atlantic meridional overturning circulation. <i>Environmental Research Letters</i> , 2017, 12, 034009.	5.2	19
59	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13097-13113.	4.9	19
60	The Biogeochemical Structure of Southern Ocean Mesoscale Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016115.	2.6	19
61	Modelling coral calcification accounting for the impacts of coral bleaching and ocean acidification. <i>Biogeosciences</i> , 2015, 12, 2607-2630.	3.3	18
62	Reversing ocean acidification along the Great Barrier Reef using alkalinity injection. <i>Environmental Research Letters</i> , 2021, 16, 064068.	5.2	18
63	The Fate of Carbon and Nutrients Exported Out of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1556-1573.	4.9	17
64	Meridional Heat and Salt Transport Across the Subantarctic Front by Cold-Core Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 981-1004.	2.6	17
65	Anthropogenic carbon in the ocean's Surface to interior connections. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1682-1698.	4.9	16
66	Historical reconstruction of ocean acidification in the Australian region. <i>Biogeosciences</i> , 2016, 13, 1753-1765.	3.3	15
67	Strategies for high-latitude northern hemisphere CO ₂ sampling now and in the future. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 523-532.	1.4	13
68	A Scramjet Compression System for Hypersonic Air Transportation Vehicle Combined Cycle Engines. <i>Energies</i> , 2018, 11, 1568.	3.1	10
69	Carbon-climate feedbacks accelerate ocean acidification. <i>Biogeosciences</i> , 2018, 15, 1721-1732.	3.3	9
70	ACCESS datasets for CMIP6: methodology and idealised experiments. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2022, 72, 93-116.	1.8	9
71	Quantitative Foresighting as a Means of Improving Anticipatory Scientific Capacity and Strategic Planning. <i>One Earth</i> , 2020, 3, 631-644.	6.8	8
72	Impacts of Ocean Wave-Dependent Momentum Flux on Global Ocean Climate. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089296.	4.0	7

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73	An assessment of land-based climate and carbon reversibility in the Australian Community Climate and Earth System Simulator. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 713-731.	2.1	7
74	Foresight must guide geoengineering research and development. <i>Nature Climate Change</i> , 2019, 9, 342-342.	18.8	4
75	Divergent trajectories of ocean warming and acidification. <i>Environmental Research Letters</i> , 2021, 16, 124063.	5.2	3
76	Restoration of the oceans. <i>Nature Climate Change</i> , 2015, 5, 1028-1029.	18.8	2
77	The industry-academic nexus: a case study of collaboration. <i>Managing Sport and Leisure</i> , 0, , 1-17.	3.5	2
78	Constraining ocean transport. <i>Nature Geoscience</i> , 2018, 11, 461-462.	12.9	1
79	How Will Earth Respond to Plans for Carbon Dioxide Removal?. <i>Eos</i> , 2017, , .	0.1	1
80	A walnut would do. <i>New Scientist</i> , 2013, 217, 30.	0.0	0