

Tatiana Ilyina

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

15,307
citations

81839

39
h-index

53190

85
g-index

142
all docs

142
docs citations

142
times ranked

18377
citing authors

#	ARTICLE	IF	CITATIONS
1	Oceanic Rossby waves drive inter-annual predictability of net primary production in the central tropical Pacific. <i>Environmental Research Letters</i> , 2022, 17, 014030.	2.2	3
2	Local oceanic CO ₂ outgassing triggered by terrestrial carbon fluxes during deglacial flooding. <i>Climate of the Past</i> , 2022, 18, 273-292.	1.3	2
3	Increase in Arctic coastal erosion and its sensitivity to warming in the twenty-first century. <i>Nature Climate Change</i> , 2022, 12, 263-270.	8.1	37
4	The ICON Earth System Model Version 1.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	16
5	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	3.7	663
6	Ocean systems. , 2022, , 427-452.		1
7	Ten new insights in climate science 2020 – a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	1.6	17
8	Reconstructing the Preindustrial Coastal Carbon Cycle Through a Global Ocean Circulation Model: Was the Global Continental Shelf Already Both Autotrophic and a CO ₂ Sink?. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006603.	1.9	25
9	Predictable Variations of the Carbon Sinks and Atmospheric CO ₂ Growth in a Multi-Model Framework. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090695.	1.5	17
10	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006788.	1.9	60
11	The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091883.	1.5	43
12	The Sensitivity of the Marine Carbonate System to Regional Ocean Alkalinity Enhancement. <i>Frontiers in Climate</i> , 2021, 3, .	1.3	21
13	Incorporating the stable carbon isotope ¹³ C in the ocean biogeochemical component of the Max Planck Institute Earth System Model. <i>Biogeosciences</i> , 2021, 18, 4389-4429.	1.3	11
14	Historical increases in land-derived nutrient inputs may alleviate effects of a changing physical climate on the oceanic carbon cycle. <i>Global Change Biology</i> , 2021, 27, 5491-5513.	4.2	28
15	A First Intercomparison of the Simulated LGM Carbon Results Within PMIP-Carbon: Role of the Ocean Boundary Conditions. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004302.	1.3	5
16	Trivial improvements in predictive skill due to direct reconstruction of the global carbon cycle. <i>Earth System Dynamics</i> , 2021, 12, 1139-1167.	2.7	2
17	Opportunities and challenges in using remaining carbon budgets to guide climate policy. <i>Nature Geoscience</i> , 2020, 13, 769-779.	5.4	68
18	Detectability of Artificial Ocean Alkalinization and Stratospheric Aerosol Injection in MPI-ESM. <i>Earth's Future</i> , 2020, 8, e2020EF001634.	2.4	3

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19	Time of Emergence and Large Ensemble Intercomparison for Ocean Biogeochemical Trends. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006453.	1.9	33
20	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. <i>Current Climate Change Reports</i> , 2020, 6, 95-119.	2.8	155
21	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	114
22	Microstructure and composition of marine aggregates as co-determinants for vertical particulate organic carbon transfer in the global ocean. <i>Biogeosciences</i> , 2020, 17, 1765-1803.	1.3	26
23	Oceanic CO ₂ outgassing and biological production hotspots induced by pre-industrial river loads of nutrients and carbon in a global modeling approach. <i>Biogeosciences</i> , 2020, 17, 55-88.	1.3	51
24	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.	1.3	348
25	Predictability Horizons in the Global Carbon Cycle Inferred From a Perfect-Model Framework. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085311.	1.5	12
26	Inherent uncertainty disguises attribution of reduced atmospheric CO ₂ growth to CO ₂ emission reductions for up to a decade. <i>Environmental Research Letters</i> , 2020, 15, 114058.	2.2	10
27	Carbon concentration and carbon climate feedbacks in CMIP6 models and their comparison to CMIP5 models. <i>Biogeosciences</i> , 2020, 17, 4173-4222.	1.3	255
28	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	3.7	1,477
29	What was the source of the atmospheric CO ₂ increase during the Holocene?. <i>Biogeosciences</i> , 2019, 16, 2543-2555.	1.3	24
30	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	1.5	0
31	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.	3.3	94
32	The Max Planck Institute Grand Ensemble: Enabling the Exploration of Climate System Variability. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2050-2069.	1.3	288
33	Predicting the variable ocean carbon sink. <i>Science Advances</i> , 2019, 5, eaav6471.	4.7	31
34	Developments in the MPI Earth System Model version 1.2 (MPI-ESM1.2) and Its Response to Increasing CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 998-1038.	1.3	582
35	Carbonate Dissolution Enhanced by Ocean Stagnation and Respiration at the Onset of the Paleocene-Eocene Thermal Maximum. <i>Geophysical Research Letters</i> , 2019, 46, 842-852.	1.5	5
36	Detecting Regional Modes of Variability in Observation-Based Surface Ocean CO ₂ . <i>Geophysical Research Letters</i> , 2019, 46, 2670-2679.	1.5	31

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37	The Zero Emissions Commitment Model Intercomparison Project (ZECMIP) contribution to C4MIP: quantifying committed climate changes following zero carbon emissions. <i>Geoscientific Model Development</i> , 2019, 12, 4375-4385.	1.3	56
38	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	3.7	1,159
39	Quantifying and Comparing Effects of Climate Engineering Methods on the Earth System. <i>Earth's Future</i> , 2018, 6, 149-168.	2.4	15
40	Current and Future Decadal Trends in the Oceanic Carbon Uptake Are Dominated by Internal Variability. <i>Geophysical Research Letters</i> , 2018, 45, 916-925.	1.5	41
41	Light absorption by marine cyanobacteria affects tropical climate mean state and variability. <i>Earth System Dynamics</i> , 2018, 9, 1283-1300.	2.7	8
42	Enhanced Rates of Regional Warming and Ocean Acidification After Termination of Large-scale Ocean Alkalinization. <i>Geophysical Research Letters</i> , 2018, 45, 7120-7129.	1.5	11
43	Appreciation of 2017 GRL Peer Reviewers. <i>Geophysical Research Letters</i> , 2018, 45, 4494-4528.	1.5	0
44	The potential of $\delta^{13}C$ for detection of ocean acidification impacts on pelagic carbonate production. <i>Biogeosciences</i> , 2018, 15, 3521-3539.	1.3	5
45	A Higher-resolution Version of the Max Planck Institute Earth System Model (MPI-ESM1.2-HR). <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1383-1413.	1.3	272
46	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
47	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448.	3.7	801
48	Rapid emergence of climate change in environmental drivers of marine ecosystems. <i>Nature Communications</i> , 2017, 8, 14682.	5.8	216
49	Towards real-time verification of CO ₂ emissions. <i>Nature Climate Change</i> , 2017, 7, 848-850.	8.1	168
50	Incorporating a prognostic representation of marine nitrogen fixers into the global ocean biogeochemical model HAMOCC. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 438-464.	1.3	59
51	Amplification of global warming through pH dependence of DMS production simulated with a fully coupled Earth system model. <i>Biogeosciences</i> , 2017, 14, 3633-3648.	1.3	29
52	C4MIP – The Coupled Climate Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 2853-2880.	1.3	186
53	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016, 9, 3231-3296.	1.3	223
54	Inconsistent strategies to spin up models in CMIP5: implications for ocean biogeochemical model performance assessment. <i>Geoscientific Model Development</i> , 2016, 9, 1827-1851.	1.3	68

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73	Climate and carbon cycle changes from 1850 to 2100 in MPI-ESM simulations for the Coupled Model Intercomparison Project phase 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 572-597.	1.3	1,280
74	Global ocean biogeochemistry model HAMOCC: Model architecture and performance as component of the MPI-Earth system model in different CMIP5 experimental realizations. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 287-315.	1.3	331
75	Assessing the potential of calcium-based artificial ocean alkalization to mitigate rising atmospheric CO ₂ and ocean acidification. <i>Geophysical Research Letters</i> , 2013, 40, 5909-5914.	1.5	63
76	Future Arctic Ocean primary productivity from CMIP5 simulations: Uncertain outcome, but consistent mechanisms. <i>Global Biogeochemical Cycles</i> , 2013, 27, 605-619.	1.9	185
77	Impact of an extremely large magnitude volcanic eruption on the global climate and carbon cycle estimated from ensemble Earth System Model simulations. <i>Biogeosciences</i> , 2013, 10, 669-687.	1.3	22
78	Detecting an external influence on recent changes in oceanic oxygen using an optimal fingerprinting method. <i>Biogeosciences</i> , 2013, 10, 1799-1813.	1.3	36
79	Multiple stressors of ocean ecosystems in the 21st century: projections with CMIP5 models. <i>Biogeosciences</i> , 2013, 10, 6225-6245.	1.3	1,191
80	The global ocean biogeochemistry model HAMOCC: Model architecture and performance as component of the MPI-earth system model in different CMIP5 experimental realizations. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, , n/a-n/a.	1.3	24
81	Detecting regional anthropogenic trends in ocean acidification against natural variability. <i>Nature Climate Change</i> , 2012, 2, 167-171.	8.1	83
82	Detection and projection of carbonate dissolution in the water column and deep-sea sediments due to ocean acidification. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	30
83	Modelling the fate of persistent organic pollutants (POPs) in the North Sea system. <i>Procedia Environmental Sciences</i> , 2011, 6, 169-179.	1.3	8
84	Future ocean increasingly transparent to low-frequency sound owing to carbon dioxide emissions. <i>Nature Geoscience</i> , 2010, 3, 18-22.	5.4	47
85	Scenarios of Temporal and Spatial Evolution of Hexabromocyclododecane in the North Sea. <i>Environmental Science & Technology</i> , 2010, 44, 4622-4628.	4.6	5
86	Early detection of ocean acidification effects on marine calcification. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	60
87	Detecting early signs of global-scale effects of ocean acidification on marine calcification. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 6, 462003.	0.2	0
88	Changes in underwater sound propagation caused by ocean acidification. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 6, 462007.	0.2	2
89	Mass budgets and contribution of individual sources and sinks to the abundance of ¹³ C-HCH, ¹² C-HCH and PCB 153 in the North Sea. <i>Chemosphere</i> , 2008, 72, 1132-1137.	4.2	13
90	A fate and transport ocean model for persistent organic pollutants and its application to the North Sea. <i>Journal of Marine Systems</i> , 2006, 63, 1-19.	0.9	58