Jasmin G John

List of Publications by Year in descending order

68 papers	13,919 citations	71061 41 h-index	106281 65 g-index
84 all docs	84 docs citations	84 times ranked	13626 citing authors

#	Article	IF	Citations
1	Climateâ€“Carbon Cycle Feedback Analysis: Results from the C4MIP Model Intercomparison. Journal of Climate, 2006, 19, 3337-3353.	1.2	2,647
2	Towards robust regional estimates of CO2 sources and sinks using atmospheric transport models. Nature, 2002, 415, 626-630.	13.7	1,157
3	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. Journal of Climate, 2012, 25, 6646-6665.	1.2	972
4	Threeâ€dimensional model synthesis of the global methane cycle. Journal of Geophysical Research, 1991, 96, 13033-13065.	3.3	820
5	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. Journal of Climate, 2013, 26, 2247-2267.	1.2	540
6	Iron supply and demand in the upper ocean. Global Biogeochemical Cycles, 2000, 14, 281-295.	1.9	472
7	TransCom 3 inversion intercomparison: Impact of transport model errors on the interannual variability of regional CO2fluxes, 1988-2003. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	417
8	Reductions in labour capacity from heat stress under climate warming. Nature Climate Change, 2013, 3, 563-566.	8.1	407
9	Detection of anthropogenic climate change in satellite records of ocean chlorophyll and productivity. Biogeosciences, 2010, 7, 621-640.	1.3	360
10	Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. Biogeosciences, 2020, 17, 3439-3470.	1.3	348
11	Evolution of carbon sinks in a changing climate. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11201-11206.	3.3	318
12	Transcom 3 inversion intercomparison: Model mean results for the estimation of seasonal carbon sources and sinks. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	312
13	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	1.3	277
14	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	1.3	252
15	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	1.3	242
16	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236
17	TransCom 3 CO2 inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 555-579.	0.8	235
18	Rapid emergence of climate change in environmental drivers of marine ecosystems. Nature Communications, 2017, 8, 14682.	5.8	216

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19	Carbon 13 exchanges between the atmosphere and biosphere. Global Biogeochemical Cycles, 1997, 11, 507-533.	1.9	206
20	Natural Variability in a Stable, 1000-Yr Global Coupled Climateâ€“Carbon Cycle Simulation. Journal of Climate, 2006, 19, 3033-3054.	1.2	199
21	Near-term Climate Change: Projections and Predictability. , 2014, , 953-1028.		196
22	Global analysis of the potential for N₂O production in natural soils. Global Biogeochemical Cycles, 1993, 7, 557-597.	1.9	195
23	Reconciling fisheries catch and ocean productivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1441-E1449.	3.3	195
24	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. Journal of Advances in Modeling Earth Systems, 2019, 11, 3167-3211.	1.3	195
25	On the contribution of CO2fertilization to the missing biospheric sink. Global Biogeochemical Cycles, 1995, 9, 541-556.	1.9	191
26	C4MIP â€“ The Coupled Climateâ€“Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. Geoscientific Model Development, 2016, 9, 2853-2880.	1.3	186
27	Global-scale carbon and energy flows through the marine planktonic food web: An analysis with a coupled physicalâ€“biological model. Progress in Oceanography, 2014, 120, 1-28.	1.5	183
28	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. Current Climate Change Reports, 2020, 6, 95-119.	2.8	155
29	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). Geoscientific Model Development, 2017, 10, 2169-2199.	1.3	137
30	Constraining human contributions to observed warming since the pre-industrial period. Nature Climate Change, 2021, 11, 207-212.	8.1	108
31	Projected decreases in future marine export production: the role of the carbon flux through the upper ocean ecosystem. Biogeosciences, 2016, 13, 4023-4047.	1.3	106
32	TransCom 3 CO₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 555.	0.8	105
33	Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579.	1.9	105
34	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. Nature Climate Change, 2021, 11, 973-981.	8.1	96
35	Drivers of trophic amplification of ocean productivity trends in a changing climate. Biogeosciences, 2014, 11, 7125-7135.	1.3	86
36	Temperature and oxygen dependence of the remineralization of organic matter. Global Biogeochemical Cycles, 2017, 31, 1038-1050.	1.9	86

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37	On the Southern Ocean CO₂ uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	1.9	85
38	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO₂. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002043.	1.3	70
39	Understanding why the volume of suboxic waters does not increase over centuries of global warming in an Earth System Model. Biogeosciences, 2012, 9, 1159-1172.	1.3	62
40	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860â€“2100. Atmospheric Chemistry and Physics, 2012, 12, 12021-12036.	1.9	54
41	The climate of North America and adjacent ocean waters ca. 6 ka. Canadian Journal of Earth Sciences, 2000, 37, 661-681.	0.6	53
42	Increase in ocean acidity variability and extremes under increasing atmospheric CO₂. Biogeosciences, 2020, 17, 4633-4662.	1.3	52
43	The GFDL Global Atmospheric Chemistryâ€Climate Model AM4.1: Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002032.	1.3	51
44	Carbon-biosphere-climate interactions in the last glacial maximum climate. Journal of Geophysical Research, 1995, 100, 7203-7221.	3.3	40
45	Sensitivity of inverse estimation of annual mean CO2sources and sinks to ocean-only sites versus all-sites observational networks. Geophysical Research Letters, 2006, 33, .	1.5	40
46	Modeling Global Ocean Biogeochemistry With Physical Data Assimilation: A Pragmatic Solution to the Equatorial Instability. Journal of Advances in Modeling Earth Systems, 2018, 10, 891-906.	1.3	35
47	Net primary productivity estimates and environmental variables in the Arctic Ocean: An assessment of coupled physical-biogeochemical models. Journal of Geophysical Research: Oceans, 2016, 121, 8635-8669.	1.0	34
48	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	1.9	30
49	Glacial Iron Sources Stimulate the Southern Ocean Carbon Cycle. Geophysical Research Letters, 2018, 45, 13,377.	1.5	27
50	Climate, ocean circulation, and sea level changes under stabilization and overshoot pathways to 1.5â€‰K warming. Earth System Dynamics, 2018, 9, 817-828.	2.7	26
51	Seasonal to interannual predictability of oceanic net primary production inferred from satellite observations. Progress in Oceanography, 2019, 170, 28-39.	1.5	26
52	Climate System Scenario Tables. , 2014, , 1395-1446.		25
53	What ocean biogeochemical models can tell us about bottom-up control of ecosystem variability. ICES Journal of Marine Science, 2011, 68, 1030-1044.	1.2	24
54	Simple Global Ocean Biogeochemistry With Light, Iron, Nutrients and Gas Version 2 (BLINGv2): Model Description and Simulation Characteristics in GFDL's CM4.0. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002008.	1.3	24

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55	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.	1.3	23
56	A more productive, but different, ocean after mitigation. Geophysical Research Letters, 2015, 42, 9836-9845.	1.5	22
57	Surface winds from atmospheric reanalysis lead to contrasting oceanic forcing and coastal upwelling patterns. Ocean Modelling, 2019, 133, 79-111.	1.0	20
58	TransCom 3 CO₂ inversion intercomparison: 2. Sensitivity of annual mean results to data choices. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 580.	0.8	20
59	Effect of recent observations on Asian CO₂ flux estimates by transport model inversions. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 522.	0.8	16
60	Ocean Ammonia Outgassing: Modulation by CO₂ and Anthropogenic Nitrogen Deposition. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002026.	1.3	5
61	Oceanic and Atmospheric Drivers of Postâ€Elâ€NiÃ±o Chlorophyll Rebound in the Equatorial Pacific. Geophysical Research Letters, 2022, 49, .	1.5	5
62	On the detection of summertime terrestrial photosynthetic variability from its atmospheric signature. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	3
63	An Atmospheric Constraint on the Seasonal Airâ€Sea Exchange of Oxygen and Heat in the Extratropics. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017510.	1.0	2
64	TransCom 3 inversion intercomparison: Impact of transport model errors on the interannual variability of regional CO2fluxes, 1988-2003. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	2
65	Regional sensitivity patterns of Arctic Ocean acidification revealed with machine learning. Communications Earth & Environment, 2022, 3, .	2.6	2
66	Mixed Layer Depth Promotes Trophic Amplification on a Seasonal Scale. Geophysical Research Letters, 2022, 49, .	1.5	2
67	Terrestrial biogeochemistry in the community climate system model (CCSM). Journal of Physics: Conference Series, 2006, 46, 363-369.	0.3	1
68	Marine Ecosystem Changepoints Spread Under Ocean Warming in an Earth System Model. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	1