JÃ¶rg Schwinger

List of Publications by Year
in descending order

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49	10,909	186265	197818
papers	citations	28 h-index	49 g-index

78	78	78	14237
all docs	docs citations	times ranked	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 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
3	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
4	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
5	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
6	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
7	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
8	The global carbon budget 1959â€“2011. Earth System Science Data, 2013, 5, 165-185.	9.9	527
9	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	9.9	463
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.	3.3	348
11	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	9.9	311
12	Overview of the Norwegian Earth System Model (NorESM2) and key climate response of CMIP6 DECK, historical, and scenario simulations. Geoscientific Model Development, 2020, 13, 6165-6200.	3.6	280
13	Global ocean carbon uptake: magnitude, variability and trends. Biogeosciences, 2013, 10, 1983-2000.	3.3	276
14	Carbonâ€“concentration and carbonâ€“climate feedbacks in CMIP6 models and their comparison to CMIP5 models. Biogeosciences, 2020, 17, 4173-4222.	3.3	255
15	Evaluation of the carbon cycle components in the Norwegian Earth System Model (NorESM). Geoscientific Model Development, 2013, 6, 301-325.	3.6	207
16	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. Current Climate Change Reports, 2020, 6, 95-119.	8.6	155
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	Decadal trends in the ocean carbon sink. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11646-11651.	7.1	94

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19	Is there warming in the pipeline? A multi-model analysis of the Zero Emissions Commitment from CO₂. Biogeosciences, 2020, 17, 2987-3016.	3.3	87
20	Ocean biogeochemistry in the Norwegian Earth System Model version 2 (NorESM2). Geoscientific Model Development, 2020, 13, 2393-2431.	3.6	68
21	Nonlinearity of Ocean Carbon Cycle Feedbacks in CMIP5 Earth System Models. Journal of Climate, 2014, 27, 3869-3888.	3.2	62
22	Evaluation of NorESM-OC (versionsÂ1 and 1.2), the ocean carbon-cycle stand-alone configuration of the Norwegian Earth System Model (NorESM1). Geoscientific Model Development, 2016, 9, 2589-2622.	3.6	57
23	Description and evaluation of NorESM1-F: a fast version of the Norwegian Earth System Model (NorESM). Geoscientific Model Development, 2019, 12, 343-362.	3.6	49
24	Stratification constrains future heat and carbon uptake in the Southern Ocean between 30Â°S and 55Â°S. Nature Communications, 2022, 13, 340.	12.8	35
25	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.	2.6	34
26	Constraining Projection-Based Estimates of the Future North Atlantic Carbon Uptake. Journal of Climate, 2018, 31, 3959-3978.	3.2	34
27	Ocean Carbon Cycle Feedbacks Under Negative Emissions. Geophysical Research Letters, 2018, 45, 5062-5070.	4.0	32
28	The impacts of ocean acidification on marine trace gases and the implications forÂatmospheric chemistry andÂclimate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190769.	2.1	31
29	Amplification of global warming through pH dependence of DMS production simulated with a fully coupled Earth system model. Biogeosciences, 2017, 14, 3633-3648.	3.3	29
30	Chemical state estimation for the middle atmosphere by fourâ€dimensional variational data assimilation: System configuration. Journal of Geophysical Research, 2010, 115, .	3.3	28
31	Evaluation of ocean dimethylsulfide concentration and emission in CMIP6 models. Biogeosciences, 2021, 18, 3823-3860.	3.3	24
32	Compatible Fossil Fuel CO2 Emissions in the CMIP6 Earth System Modelsâ€™ Historical and Shared Socioeconomic Pathway Experiments of the Twenty-First Century. Journal of Climate, 2021, 34, 2853-2875.	3.2	23
33	Sensitivity of Latent Heat Fluxes to Initial Values and Parameters of a Landâ€Surface Model. Vadose Zone Journal, 2010, 9, 984-1001.	2.2	18
34	Chemical state estimation for the middle atmosphere by fourâ€dimensional variational data assimilation: A posteriori validation of error statistics in observation space. Journal of Geophysical Research, 2010, 115, .	3.3	18
35	The Response of Permafrost and Highâ€Latitude Ecosystems Under Largeâ€Scale Stratospheric Aerosol Injection and Its Termination. Earth's Future, 2019, 7, 605-614.	6.3	17
36	Gravity field determination of a Comet Nucleus: Rosetta at P/Wirtanen. Astronomy and Astrophysics, 2001, 375, 651-660.	5.1	15

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37	A Modelâ€Based Evaluation of the Inverse Gaussian Transitâ€Time Distribution Method for Inferring Anthropogenic Carbon Storage in the Ocean. Journal of Geophysical Research: Oceans, 2018, 123, 1777-1800.	2.6	13
38	Mechanisms and Early Detections of Multidecadal Oxygen Changes in the Interior Subpolar North Atlantic. Geophysical Research Letters, 2018, 45, 4218-4229.	4.0	11
39	Possibility for strong northern hemisphere high-latitude cooling under negative emissions. Nature Communications, 2022, 13, 1095.	12.8	10
40	How Is the Ocean Anthropogenic Carbon Reservoir Filled?. Global Biogeochemical Cycles, 2022, 36, .	4.9	9
41	Southern Ocean controls of the vertical marine <i>Î´</i>¹³C gradient â€“ a modelling study. Biogeosciences, 2018, 15, 7205-7223.	3.3	8
42	A variational data assimilation system for soilâ€“atmosphere flux estimates for the Community Land Model (CLM3.5). Geoscientific Model Development, 2014, 7, 1025-1036.	3.6	6
43	Responses of carbon uptake and oceanic pCO₂ to climate change in the North Atlantic: A model study with the Bergen Earth System Model. Global Biogeochemical Cycles, 2015, 29, 1567-1583.	4.9	6
44	Evaluating the biological pump efficiency of the Last Glacial Maximum ocean using <i>Î´</i>¹³C. Climate of the Past, 2021, 17, 753-774.	3.4	6
45	Impact of different ozone sounding networks on a 4Dâ€Var stratospheric data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 2055-2067.	2.7	4
46	The response of terrestrial ecosystem carbon cycling under different aerosol-based radiation management geoengineering. Earth System Dynamics, 2021, 12, 313-326.	7.1	4
47	Welche Rolle spielen negative Emissionen fÃ¼r die zukÃ¼nftige Klimapolitik?. Perspektiven Der Wirtschaftspolitik, 2019, 20, 145-158.	0.4	2
48	Implications of temperature overshoot dynamics for climate and carbon dioxide removal policies in the DICE model. Environmental Research Letters, 2021, 16, 104042.	5.2	2
49	A Last Glacial Maximum forcing dataset for ocean modelling. Earth System Science Data, 2020, 12, 2971-2985.	9.9	1