Samar Khatiwala

List of Publications by Year
in descending order

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29 papers	2,700 citations	394421 19 h-index	477307 29 g-index
40 all docs	40 docs citations	40 times ranked	3558 citing authors

#	Article	IF	Citations
1	Reconstruction of the history of anthropogenic CO2 concentrations in the ocean. Nature, 2009, 462, 346-349.	27.8	506
2	Global ocean storage of anthropogenic carbon. Biogeosciences, 2013, 10, 2169-2191.	3.3	348
3	Global ocean carbon uptake: magnitude, variability and trends. Biogeosciences, 2013, 10, 1983-2000.	3.3	276
4	Global reconstruction of historical ocean heat storage and transport. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1126-1131.	7.1	180
5	Towards explaining the Nd paradox using reversible scavenging in an ocean general circulation model. Earth and Planetary Science Letters, 2008, 274, 448-461.	4.4	164
6	Ventilation of the deep ocean constrained with tracer observations and implications for radiocarbon estimates of ideal mean age. Earth and Planetary Science Letters, 2012, 325-326, 116-125.	4.4	122
7	Accelerated simulation of passive tracers in ocean circulation models. Ocean Modelling, 2005, 9, 51-69.	2.4	119
8	A computational framework for simulation of biogeochemical tracers in the ocean. Global Biogeochemical Cycles, 2007, 21, .	4.9	108
9	Silicon and zinc biogeochemical cycles coupled through the Southern Ocean. Nature Geoscience, 2017, 10, 202-206.	12.9	100
10	Changing controls on oceanic radiocarbon: New insights on shallowâ€toâ€deep ocean exchange and anthropogenic CO₂ uptake. Journal of Geophysical Research, 2012, 117, .	3.3	99
11	Towards an assessment of simple global marine biogeochemical models of different complexity. Progress in Oceanography, 2010, 86, 337-360.	3.2	96
12	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. Nature Geoscience, 2018, 11, 504-509.	12.9	95
13	Age tracers in an ocean GCM. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1423-1441.	1.4	82
14	Air-sea disequilibrium enhances ocean carbon storage during glacial periods. Science Advances, 2019, 5, eaaw4981.	10.3	73
15	Sensitivity analysis of simple global marine biogeochemical models. Global Biogeochemical Cycles, 2012, 26, .	4.9	56
16	Building high accuracy emulators for scientific simulations with deep neural architecture search. Machine Learning: Science and Technology, 2022, 3, 015013.	5.0	46
17	Fast spin up of Ocean biogeochemical models using matrix-free Newtonâ€“Krylov. Ocean Modelling, 2008, 23, 121-129.	2.4	42
18	Calibrating a global three-dimensional biogeochemical ocean model (MOPS-1.0). Geoscientific Model Development, 2017, 10, 127-154.	3.6	37

#	Article	IF	Citations
19	Agreement of CMIP5 Simulated and Observed Ocean Anthropogenic CO₂ Uptake. Geophysical Research Letters, 2017, 44, 12,298.	4.0	27
20	Evaluation of the transport matrix method for simulation of ocean biogeochemical tracers. Geoscientific Model Development, 2017, 10, 2425-2445.	3.6	18
21	Glacial deep ocean deoxygenation driven by biologically mediated airâ€“sea disequilibrium. Nature Geoscience, 2021, 14, 43-50.	12.9	18
22	Constraints on oceanic meridional heat transport from combined measurements of oxygen and carbon. Climate Dynamics, 2016, 47, 3335-3357.	3.8	16
23	The Influence of Warming Patterns on Passive Ocean Heat Uptake. Geophysical Research Letters, 2020, 47, e2020GL088429.	4.0	15
24	Noble gas tracers of ventilation during deep-water formation in the Weddell Sea. IOP Conference Series: Earth and Environmental Science, 2016, 35, 012019.	0.3	12
25	Changes to the Airâ€Sea Flux and Distribution of Radiocarbon in the Ocean Over the 21st Century. Geophysical Research Letters, 2018, 45, 5617-5626.	4.0	11
26	A derivative-free optimisation method for global ocean biogeochemical models. Geoscientific Model Development, 2022, 15, 3537-3554.	3.6	5
27	Decomposing the Oxygen Signal in the Ocean Interior: Beyond Decomposing Organic Matter. Geophysical Research Letters, 2021, 48, e2021GL092621.	4.0	4
28	Relating Patterns of Added and Redistributed Ocean Warming. Journal of Climate, 2022, 35, 4627-4643.	3.2	3
29	Future Changes in Î´¹³C of Dissolved Inorganic Carbon in the Ocean. Earth's Future, 2021, 9, e2021EF002173.	6.3	1