

# Samar Khatiwala

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Building high accuracy emulators for scientific simulations with deep neural architecture search. <i>Machine Learning: Science and Technology</i> , 2022, 3, 015013.	5.0	46
2	Relating Patterns of Added and Redistributed Ocean Warming. <i>Journal of Climate</i> , 2022, 35, 4627-4643.	3.2	3
3	A derivative-free optimisation method for global ocean biogeochemical models. <i>Geoscientific Model Development</i> , 2022, 15, 3537-3554.	3.6	5
4	Glacial deep ocean deoxygenation driven by biologically mediated air-sea disequilibrium. <i>Nature Geoscience</i> , 2021, 14, 43-50.	12.9	18
5	Decomposing the Oxygen Signal in the Ocean Interior: Beyond Decomposing Organic Matter. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092621.	4.0	4
6	Future Changes in $\delta^{13}C$ of Dissolved Inorganic Carbon in the Ocean. <i>Earth's Future</i> , 2021, 9, e2021EF002173.	6.3	1
7	The Influence of Warming Patterns on Passive Ocean Heat Uptake. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088429.	4.0	15
8	Air-sea disequilibrium enhances ocean carbon storage during glacial periods. <i>Science Advances</i> , 2019, 5, eaaw4981.	10.3	73
9	Global reconstruction of historical ocean heat storage and transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1126-1131.	7.1	180
10	Changes to the Air-Sea Flux and Distribution of Radiocarbon in the Ocean Over the 21st Century. <i>Geophysical Research Letters</i> , 2018, 45, 5617-5626.	4.0	11
11	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. <i>Nature Geoscience</i> , 2018, 11, 504-509.	12.9	95
12	Silicon and zinc biogeochemical cycles coupled through the Southern Ocean. <i>Nature Geoscience</i> , 2017, 10, 202-206.	12.9	100
13	Agreement of CMIP5 Simulated and Observed Ocean Anthropogenic $CO_2$ Uptake. <i>Geophysical Research Letters</i> , 2017, 44, 12,298.	4.0	27
14	Calibrating a global three-dimensional biogeochemical ocean model (MOPS-1.0). <i>Geoscientific Model Development</i> , 2017, 10, 127-154.	3.6	37
15	Evaluation of the transport matrix method for simulation of ocean biogeochemical tracers. <i>Geoscientific Model Development</i> , 2017, 10, 2425-2445.	3.6	18
16	Noble gas tracers of ventilation during deep-water formation in the Weddell Sea. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 35, 012019.	0.3	12
17	Constraints on oceanic meridional heat transport from combined measurements of oxygen and carbon. <i>Climate Dynamics</i> , 2016, 47, 3335-3357.	3.8	16
18	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	3.3	276

#	ARTICLE	IF	CITATIONS
19	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	3.3	348
20	Ventilation of the deep ocean constrained with tracer observations and implications for radiocarbon estimates of ideal mean age. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 116-125.	4.4	122
21	Sensitivity analysis of simple global marine biogeochemical models. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	56
22	Changing controls on oceanic radiocarbon: New insights on shallow-to-deep ocean exchange and anthropogenic CO <sub>2</sub> uptake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
23	Towards an assessment of simple global marine biogeochemical models of different complexity. <i>Progress in Oceanography</i> , 2010, 86, 337-360.	3.2	96
24	Reconstruction of the history of anthropogenic CO <sub>2</sub> concentrations in the ocean. <i>Nature</i> , 2009, 462, 346-349.	27.8	506
25	Fast spin up of Ocean biogeochemical models using matrix-free Newton-Krylov. <i>Ocean Modelling</i> , 2008, 23, 121-129.	2.4	42
26	Towards explaining the Nd paradox using reversible scavenging in an ocean general circulation model. <i>Earth and Planetary Science Letters</i> , 2008, 274, 448-461.	4.4	164
27	A computational framework for simulation of biogeochemical tracers in the ocean. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	108
28	Accelerated simulation of passive tracers in ocean circulation models. <i>Ocean Modelling</i> , 2005, 9, 51-69.	2.4	119
29	Age tracers in an ocean GCM. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 1423-1441.	1.4	82