Mathew E Maltrud

List of Publications by Year
in descending order

15 papers	1,344 citations	1040056 9 h-index	996975 15 g-index
22 all docs	22 docs citations	22 times ranked	1988 citing authors

#	Article	IF	Citations
1	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	3.8	404
2	A multi-resolution approach to global ocean modeling. Ocean Modelling, 2013, 69, 211-232.	2.4	239
3	An eddy resolving global 1/10Â° ocean simulation. Ocean Modelling, 2005, 8, 31-54.	2.4	233
4	Regional sea level trends due to a Pacific trade wind intensification. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	118
5	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 4095-4146.	3.8	112
6	Evaluation of the arbitrary Lagrangianâ€“Eulerian vertical coordinate method in the MPAS-Ocean model. Ocean Modelling, 2015, 86, 93-113.	2.4	75
7	An Evaluation of the Ocean and Sea Ice Climate of E3SM Using MPAS and Interannual COREâ€Ⅱ Forcing. Journal of Advances in Modeling Earth Systems, 2019, 11, 1438-1458.	3.8	73
8	Diagnosing Isopycnal Diffusivity in an Eddying, Idealized Midlatitude Ocean Basin via Lagrangian, in Situ, Global, High-Performance Particle Tracking (LIGHT). Journal of Physical Oceanography, 2015, 45, 2114-2133.	1.7	28
9	Investigating controls on sea ice algal production using E3SMv1.1-BGC. Annals of Glaciology, 2020, 61, 51-72.	1.4	16
10	A numerical framework for simulating the atmospheric variability of supermicron marine biogenic ice nucleating particles. Atmospheric Chemistry and Physics, 2022, 22, 847-859.	4.9	9
11	The Influence of Ocean Topography on the Upwelling of Carbon in the Southern Ocean. Geophysical Research Letters, 2021, 48, e2021GL095088.	4.0	8
12	On the Generation of Weddell Sea Polynyas in a High-Resolution Earth System Model. Journal of Climate, 2021, 34, 2491-2510.	3.2	7
13	Prescreening-Based Subset Selection for Improving Predictions of Earth System Models With Application to Regional Prediction of Red Tide. Frontiers in Earth Science, 2022, 10, 1-19.	1.8	3
14	Earth system models for regional environmental management of red tide: Prospects and limitations of current generation models and next generation development. Environmental Earth Sciences, 2022, 81, .	2.7	3
15	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO₂ in Tropical Forests in the Energy Exascale Earth System Model v1. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	1