Malte MÃ¼ller

List of Publications by Year
in descending order

28 papers	1,308 citations	394421 19 h-index	501196 28 g-index
39 all docs	39 docs citations	39 times ranked	1737 citing authors

#	Article	IF	Citations
1	Accuracy assessment of global barotropic ocean tide models. Reviews of Geophysics, 2014, 52, 243-282.	23.0	338
2	Global M₂ internal tide and its seasonal variability from high resolution ocean circulation and tide modeling. Geophysical Research Letters, 2012, 39, .	4.0	90
3	Seasonal variation of the M 2 tide. Ocean Dynamics, 2014, 64, 159-177.	2.2	88
4	The influence of changing stratification conditions on barotropic tidal transport and its implications for seasonal and secular changes of tides. Continental Shelf Research, 2012, 47, 107-118.	1.8	73
5	SMART Cables for Observing the Global Ocean: Science and Implementation. Frontiers in Marine Science, 2019, 6, .	2.5	73
6	Geostrophic Turbulence in the Frequencyâ€“Wavenumber Domain: Eddy-Driven Low-Frequency Variability*. Journal of Physical Oceanography, 2014, 44, 2050-2069.	1.7	70
7	On the warm bias in atmospheric reanalyses induced by the missing snow over Arctic sea-ice. Nature Communications, 2019, 10, 4170.	12.8	58
8	Seasonal variability in M₂ and M₄ tidal constituents and its implications for the coastal residual sediment transport. Geophysical Research Letters, 2014, 41, 5563-5570.	4.0	54
9	Characteristics of a Convective-Scale Weather Forecasting System for the European Arctic. Monthly Weather Review, 2017, 145, 4771-4787.	1.4	49
10	The effect of ocean tides on a climate model simulation. Ocean Modelling, 2010, 35, 304-313.	2.4	47
11	Using UNSEEN trends to detect decadal changes in 100-year precipitation extremes. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	40
12	Tidal forcing, energetics, and mixing near the Yermak Plateau. Ocean Science, 2015, 11, 287-304.	3.4	39
13	On the space- and time-dependence of barotropic-to-baroclinic tidal energy conversion. Ocean Modelling, 2013, 72, 242-252.	2.4	37
14	Toward an internal gravity wave spectrum in global ocean models. Geophysical Research Letters, 2015, 42, 3474-3481.	4.0	33
15	The M2 Internal Tide Simulated by a 1/10Â° OGCM. Journal of Physical Oceanography, 2015, 45, 3119-3135.	1.7	30
16	The role of spatial and temporal model resolution in a flood event storyline approach in western Norway. Weather and Climate Extremes, 2020, 29, 100259.	4.1	30
17	Longâ€Term Earthâ€Moon Evolution With Highâ€Level Orbit and Ocean Tide Models. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006875.	3.6	28
18	The free oscillations of the world ocean in the period range 8 to 165 hours including the full loading effect. Geophysical Research Letters, 2007, 34, .	4.0	23

#	Article	IF	Citations
19	Synthesis of forced oscillations, Part I: Tidal dynamics and the influence of the loading and self-attraction effect. Ocean Modelling, 2008, 20, 207-222.	2.4	21
20	OpenMetBuoy-v2021: An Easy-to-Build, Affordable, Customizable, Open-Source Instrument for Oceanographic Measurements of Drift and Waves in Sea Ice and the Open Ocean. Geosciences (Switzerland), 2022, 12, 110.	2.2	17
21	The computation of the free barotropic oscillations of a global ocean model including friction and loading effects. Ocean Dynamics, 2005, 55, 137-161.	2.2	16
22	On the Resonance and Shelf/Open-Ocean Coupling of the Global Diurnal Tides. Journal of Physical Oceanography, 2013, 43, 1301-1324.	1.7	12
23	The K 1 internal tide simulated by a 1/10Â° OGCM. Ocean Modelling, 2017, 113, 145-156.	2.4	10
24	Calibration of sea ice drift forecasts using random forest algorithms. Cryosphere, 2021, 15, 3989-4004.	3.9	8
25	Decline of sea-ice in the Greenland Sea intensifies extreme precipitation over Svalbard. Weather and Climate Extremes, 2022, 36, 100437.	4.1	7
26	A novel approach to computing super observations for probabilistic wave model validation. Ocean Modelling, 2019, 139, 101404.	2.4	6
27	Wave measurements from ship mounted sensors in the Arctic marginal ice zone. Cold Regions Science and Technology, 2021, 182, 103207.	3.5	6
28	Coproducing Sea Ice Predictions with Stakeholders Using Simulation. Weather, Climate, and Society, 2022, 14, 399-413.	1.1	2