

Detlef Stammer

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95
papers

5,597
citations

36
h-index

74
g-index

101
ext. papers

6,229
ext. citations

5.2
avg, IF

5.73
L-index

#	Paper	IF	Citations
95	Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1467-1486	6.1	552
94	Global Characteristics of Ocean Variability Estimated from Regional TOPEX/POSEIDON Altimeter Measurements. <i>Journal of Physical Oceanography</i> , 1997 , 27, 1743-1769	2.4	468
93	Atmospheric loading and the oceanic inverted barometer effect. <i>Reviews of Geophysics</i> , 1997 , 35, 79-107	23.1	266
92	Global ocean circulation during 1992-1997, estimated from ocean observations and a general circulation model. <i>Journal of Geophysical Research</i> , 2002 , 107, 1-1		261
91	Projecting twenty-first century regional sea-level changes. <i>Climatic Change</i> , 2014 , 124, 317-332	4.5	246
90	Causes for contemporary regional sea level changes. <i>Annual Review of Marine Science</i> , 2013 , 5, 21-46	15.4	238
89	Initializing Decadal Climate Predictions with the GECCO Oceanic Synthesis: Effects on the North Atlantic. <i>Journal of Climate</i> , 2009 , 22, 3926-3938	4.4	227
88	Ocean State Estimation for Climate Research. <i>Oceanography</i> , 2009 , 22, 160-167	2.3	203
87	Improved sea level record over the satellite altimetry era (1993-2010) from the Climate Change Initiative project. <i>Ocean Science</i> , 2015 , 11, 67-82	4	162
86	How well does a 1/4° global circulation model simulate large-scale oceanic observations?. <i>Journal of Geophysical Research</i> , 1996 , 101, 25779-25811		160
85	An Estimate of the Lorenz Energy Cycle for the World Ocean Based on the STORM/NCEP Simulation. <i>Journal of Physical Oceanography</i> , 2012 , 42, 2185-2205	2.4	157
84	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. <i>Surveys in Geophysics</i> , 2019 , 40, 1251-1289	7.6	135
83	Estimating air-sea fluxes of heat, freshwater, and momentum through global ocean data assimilation. <i>Journal of Geophysical Research</i> , 2004 , 109,		135
82	Variability of the Meridional Overturning in the North Atlantic from the 50-Year GECCO State Estimation. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1913-1930	2.4	127
81	Volume, heat, and freshwater transports of the global ocean circulation 1993-2000, estimated from a general circulation model constrained by World Ocean Circulation Experiment (WOCE) data. <i>Journal of Geophysical Research</i> , 2003 , 108, 7-1		120
80	Coastal sea level changes, observed and projected during the 20th and 21st century. <i>Climatic Change</i> , 2016 , 134, 269-281	4.5	114
79	Response of the global ocean to Greenland and Antarctic ice melting. <i>Journal of Geophysical Research</i> , 2008 , 113,		98

78	Decadal Sea Level Changes in the 50-Year GECCO Ocean Synthesis. <i>Journal of Climate</i> , 2008 , 21, 1876-1890	4.4	98
77	NASA supercomputer improves prospects for ocean climate research. <i>Eos</i> , 2005 , 86, 89	1.5	97
76	De-aliasing of global high frequency barotropic motions in altimeter observations. <i>Geophysical Research Letters</i> , 2000 , 27, 1175-1178	4.9	95
75	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: investigation of sea-level and ocean climate change in response to CO ₂ forcing. <i>Geoscientific Model Development</i> , 2016 , 9, 3993-4017	6.3	76
74	Fram Strait sea ice volume export estimated between 2003 and 2008 from satellite data. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	75
73	Comparison of the Atlantic meridional overturning circulation between 1960 and 2007 in six ocean reanalysis products. <i>Climate Dynamics</i> , 2017 , 49, 957-982	4.2	74
72	State estimation improves prospects for ocean research. <i>Eos</i> , 2002 , 83, 289	1.5	72
71	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	69
70	Mesoscale Variability in the Atlantic Ocean from Geosat Altimetry and WOCE High-Resolution Numerical Modeling. <i>Journal of Physical Oceanography</i> , 1992 , 22, 732-752	2.4	66
69	Ocean Data Assimilation in Support of Climate Applications: Status and Perspectives. <i>Annual Review of Marine Science</i> , 2016 , 8, 491-518	15.4	65
68	Satellite Salinity Observing System: Recent Discoveries and the Way Forward. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	64
67	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 2379-2394	6.1	60
66	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2010 , 62, 530-550	2	55
65	Treating strong adjoint sensitivities in tropical eddy-permitting variational data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005 , 131, 3659-3682	6.4	52
64	Seasonal variations of the large-scale geostrophic flow field and eddy kinetic energy inferred from the TOPEX/Poseidon and Jason-1 tandem mission data. <i>Journal of Geophysical Research</i> , 2010 , 115,		49
63	Rapid barotropic sea level rise from ice sheet melting. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		47
62	Optimal Observations for Variational Data Assimilation. <i>Journal of Physical Oceanography</i> , 2004 , 34, 529-542		43
61	Adjoint-Based Estimation of Eddy-Induced Tracer Mixing Parameters in the Global Ocean. <i>Journal of Physical Oceanography</i> , 2012 , 42, 1186-1206	2.4	40

60	Improving ocean angular momentum estimates using a model constrained by data. <i>Geophysical Research Letters</i> , 2001 , 28, 1775-1778	4.9	37
59	Wind-speed inversion from HF radar first-order backscatter signal. <i>Ocean Dynamics</i> , 2012 , 62, 105-121	2.3	34
58	Satellite-based estimates of sea-ice volume flux through Fram Strait. <i>Annals of Glaciology</i> , 2006 , 44, 321-338		31
57	Framework for High-End Estimates of Sea Level Rise for Stakeholder Applications. <i>Earths Future</i> , 2019 , 7, 923-938	7.9	30
56	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	29
55	Adjusting Internal Model Errors through Ocean State Estimation. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1143-1153	2.4	28
54	Impacts of Basin-Scale Climate Modes on Coastal Sea Level: a Review. <i>Surveys in Geophysics</i> , 2019 , 40, 1493-1541	7.6	27
53	The Impact of Regional Multidecadal and Century-Scale Internal Climate Variability on Sea Level Trends in CMIP5 Models. <i>Journal of Climate</i> , 2015 , 28, 853-861	4.4	26
52	Uncertainties in altimetry-based velocity estimates. <i>Journal of Geophysical Research</i> , 2002 , 107, 39-1		26
51	Quality assessment of spaceborne sea surface salinity observations over the northern North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 94-112	3.3	25
50	Interannual variability in northeast Pacific circulation. <i>Journal of Geophysical Research</i> , 2006 , 111,		25
49	Deep-reaching thermocline mixing in the equatorial pacific cold tongue. <i>Nature Communications</i> , 2016 , 7, 11576	17.4	23
48	Impact of assimilating bottom pressure anomalies from GRACE on ocean circulation estimates. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		22
47	Impact of initialization procedures on the predictive skill of a coupled ocean-atmosphere model. <i>Climate Dynamics</i> , 2014 , 42, 3151-3169	4.2	21
46	Spatial and temporal scales of sea surface salinity variability in the Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 4306-4323	3.3	21
45	Multimodel simulations of Arctic Ocean sea surface height variability in the period 1970-2009. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 8936-8954	3.3	20
44	Impact of Accurate Geoid Fields on Estimates of the Ocean Circulation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 1464-1478	2	20
43	Full-field initialized decadal predictions with the MPI earth system model: an initial shock in the North Atlantic. <i>Climate Dynamics</i> , 2018 , 51, 2593-2608	4.2	19

42	The determination of the large-scale circulation of the Pacific Ocean from satellite altimetry using model Green's functions. <i>Journal of Geophysical Research</i> , 1996 , 101, 18409-18432		18
41	Putting It All Together: Adding Value to the Global Ocean and Climate Observing Systems With Complete Self-Consistent Ocean State and Parameter Estimates. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	16
40	Initialization and Ensemble Generation for Decadal Climate Predictions: A Comparison of Different Methods. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 149-172	7.1	15
39	Mechanisms of Mixed-Layer Salinity Seasonal Variability in the Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 466-496	3.3	15
38	Causes for Large-Scale Hydrographic Changes at the Hawaii Ocean Time Series Station. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1931-1948	2.4	15
37	Improved spatial resolution of ocean surface topography from the T/P-Jason-1 altimeter mission. <i>Eos</i> , 2003 , 84, 241	1.5	12
36	Vorticity Balance in Coarse-Resolution Global Ocean Simulations. <i>Journal of Physical Oceanography</i> , 2004 , 34, 605-622	2.4	12
35	Assessing ENSO Simulations and Predictions Using Adjoint Ocean State Estimation. <i>Journal of Climate</i> , 2004 , 17, 4301-4315	4.4	12
34	Regional Sea Level Variability and Trends, 1960-2007: A Comparison of Sea Level Reconstructions and Ocean Syntheses. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 9068-9091	3.3	10
33	Testing variational estimation of process parameters and initial conditions of an earth system model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2014 , 66, 22606	2	10
32	Electromagnetic bias estimates based on TOPEX, buoy, and wave model data. <i>Journal of Geophysical Research</i> , 2003 , 108,		10
31	Sea ice assimilation into a coupled ocean-ice model using its adjoint. <i>Cryosphere</i> , 2017 , 11, 2265-2281	5.5	9
30	Predictive Skill for Regional Interannual Steric Sea Level and Mechanisms for Predictability*. <i>Journal of Climate</i> , 2015 , 28, 7407-7419	4.4	9
29	Atlantic sea surface height and velocity spectra inferred from satellite altimetry and a hierarchy of numerical simulations. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 4157-4177	3.3	9
28	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
27	Adjoint-Based Climate Model Tuning: Application to the Planet Simulator. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 207-222	7.1	7
26	What causes the spread of model projections of ocean dynamic sea-level change in response to greenhouse gas forcing?. <i>Climate Dynamics</i> , 2021 , 56, 155-187	4.2	7
25	Impact of in-consistency between the climate model and its initial conditions on climate prediction. <i>Climate Dynamics</i> , 2017 , 49, 1061-1075	4.2	6

24	Improved sea level record over the satellite altimetry era (1993–2010) from the Climate Change Initiative Project		6
23	A Comparison of Two Ensemble Generation Methods Using Oceanic Singular Vectors and Atmospheric Lagged Initialization for Decadal Climate Prediction. <i>Monthly Weather Review</i> , 2016 , 144, 2719-2738	2.4	6
22	A Pilot Climate Sensitivity Study Using the CEN Coupled Adjoint Model (CESAM). <i>Journal of Climate</i> , 2018 , 31, 2031-2056	4.4	5
21	Statistical parameters of the geostrophic ocean flow field estimated from the Jason-1–OPEX/Poseidon tandem mission. <i>Journal of Geophysical Research</i> , 2011 , 116,		5
20	Satellite-based Sea Surface Salinity designed for Ocean and Climate Studies. <i>Journal of Geophysical Research: Oceans</i> , e2021JC017676	3.3	5
19	How well do we know ocean salinity and its changes?. <i>Progress in Oceanography</i> , 2021 , 190, 102478	3.8	5
18	Climate-mode initialization for decadal climate predictions. <i>Climate Dynamics</i> , 2019 , 53, 7097-7111	4.2	4
17	Multi-Scat Helicopter-Based Scatterometer for Snow-Cover and Sea-Ice Investigations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009 , 6, 703-707	4.1	4
16	Science Directions in a Post COP21 World of Transient Climate Change: Enabling Regional to Local Predictions in Support of Reliable Climate Information. <i>Earth's Future</i> , 2018 , 6, 1498-1507	7.9	4
15	Dynamical ocean response to projected changes of the global water cycle. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 6512-6532	3.3	3
14	Global current measurements in rivers by spaceborne along-track InSAR		3
13	Growth and Decay of Northwestern Tropical Atlantic Barrier Layers. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016956	3.3	2
12	Ocean Salinity changes in the global ocean under global warming conditions Part 1: Mechanisms in a strong warming scenario. <i>Journal of Climate</i> , 2021 , 1-56	4.4	2
11	Temporal Variations of the Marine Geoid. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016433	3.9	1
10	Testing the Quality of Sea-Level Data Using the GECCO Adjoint Assimilation Approach. <i>Surveys in Geophysics</i> , 2017 , 38, 349-383	7.6	1
9	Four Types of Baroclinic Instability Waves in the Global Oceans and the Implications for the Vertical Structure of Mesoscale Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016966	3.3	1
8	Arctic ocean sea ice reanalysis for the period 2007–2016 using the adjoint method. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 1908-1929	6.4	1
7	Assessing the current and future Arctic Ocean observing system with observing system simulating experiments. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 2670-2690	6.4	1

6	Satellite-based Time-Series of Sea Surface Salinity designed for Ocean and Climate Studies		1
5	Time-Space Sampling-Related Uncertainties of Altimetric Global Mean Sea Level Estimates. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 7743-7755	3-3	1
4	Sea level changes mechanisms in the MPI-ESM under FAFMIP forcing conditions. <i>Climate Dynamics</i> , 1	4-2	1
3	Inferring Air-Sea Carbon Dioxide Transfer Velocities From Sea Surface Scatterometer Measurements. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 7974-7988	3-3	0
2	Interannual Variability of the Congo River Plume-Induced Sea Surface Salinity. <i>Remote Sensing</i> , 2022 , 14, 1013	5	0
1	Century-scale variability of Arctic SSH and freshwater content in a past1000-yr model experiment. <i>Journal of Climate</i> , 2022 , 1-40	4-4	