Keith Haines

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8506554/publications.pdf

Version: 2024-02-01

133	4,625	81743	123241
papers	citations	39 h-index	61 g-index

145	145	145	4679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sea ice decline and 21st century transâ€Arctic shipping routes. Geophysical Research Letters, 2016, 43, 9720-9728.	1.5	255
2	Altimetric assimilation with water property conservation. Journal of Geophysical Research, 1996, 101, 1059-1077.	3.3	241
3	The Ocean Reanalyses Intercomparison Project (ORA-IP). Journal of Operational Oceanography, 2015, 8, s80-s97.	0.6	169
4	Modeling the paleocirculation of the Mediterranean: The Last Glacial Maximum and the Holocene with emphasis on the formation of sapropelS1. Paleoceanography, 1998, 13, 586-606.	3.0	146
5	Modeling the dispersal of Levantine Intermediate Water and its role in Mediterranean deep water formation. Journal of Geophysical Research, 1996, 101, 6591-6607.	3.3	112
6	How does the European eel (Anguilla anguilla) retain its population structure during its larval migration across the North Atlantic Ocean?. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 90-106.	0.7	101
7	Eddyâ€Forced Coherent Structures As A Prototype of Atmospheric Blocking. Quarterly Journal of the Royal Meteorological Society, 1987, 113, 681-704.	1.0	96
8	Intercomparison of the Arctic sea ice cover in global oceanâ€“sea ice reanalyses from the ORA-IP project. Climate Dynamics, 2017, 49, 1107-1136.	1.7	92
9	Atmosphere drives recent interannual variability of the Atlantic meridional overturning circulation at 26.5Â°N. Geophysical Research Letters, 2013, 40, 5164-5170.	1.5	90
10	Ocean heat content variability and change in an ensemble of ocean reanalyses. Climate Dynamics, 2017, 49, 909-930.	1.7	88
11	An assessment of ten ocean reanalyses in the polar regions. Climate Dynamics, 2019, 52, 1613-1650.	1.7	88
12	The Need for a Dynamical Climate Reanalysis. Bulletin of the American Meteorological Society, 2007, 88, 495-502.	1.7	85
13	Use of the Temperatureâ€“Salinity Relation in a Data Assimilation Context. Journal of Atmospheric and Oceanic Technology, 1999, 16, 2011-2025.	0.5	84
14	An assessment of airâ€“sea heat fluxes from ocean and coupled reanalyses. Climate Dynamics, 2017, 49, 983-1008.	1.7	81
15	Review and assessment of latent and sensible heat flux accuracy over the global oceans. Remote Sensing of Environment, 2017, 201, 196-218.	4.6	75
16	Isolating the signal of ocean global warming. Geophysical Research Letters, 2007, 34, .	1.5	74
17	Modelling the global coastal ocean. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 939-951.	1.6	74
18	Response of the Mediterranean Sea thermohaline circulation to observed changes in the winter wind stress field in the period 1980-1993. Journal of Geophysical Research, 1999, 104, 7771-7784.	3.3	73

#	Article	IF	Citations
19	Toward an Understanding of Deep-Water Renewal in the Eastern Mediterranean. Journal of Physical Oceanography, 2000, 30, 443-458.	0.7	73
20	Origin and Impact of Initialization Shocks in Coupled Atmosphereâ€“Ocean Forecasts*. Monthly Weather Review, 2015, 143, 4631-4644.	0.5	70
21	A Direct Method for Assimilating Sea Surface Height Data into Ocean Models with Adjustments to the Deep Circulation. Journal of Physical Oceanography, 1991, 21, 843-868.	0.7	68
22	Salinity Adjustments in the Presence of Temperature Data Assimilation. Monthly Weather Review, 2002, 130, 89-102.	0.5	67
23	Calculating the Oceanâ€™s Mean Dynamic Topography from a Mean Sea Surface and a Geoid. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1808-1822.	0.5	67
24	An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. Climate Dynamics, 2017, 49, 813-841.	1.7	67
25	Ocean Reanalyses: Recent Advances and Unsolved Challenges. Frontiers in Marine Science, 2019, 6, .	1.2	63
26	Global hydrology modelling and uncertainty: running multiple ensembles with a campus grid. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4005-4021.	1.6	62
27	A Theoretical and Diagnostic Study of Solitary Waves and Atmospheric Blocking. Journals of the Atmospheric Sciences, 1989, 46, 2063-2078.	0.6	59
28	Data assimilation in ocean models. Reports on Progress in Physics, 1996, 59, 1209-1266.	8.1	57
29	The Mean State and Variability of the North Atlantic Circulation: A Perspective From Ocean Reanalyses. Journal of Geophysical Research: Oceans, 2019, 124, 9141-9170.	1.0	55
30	Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. Climate Dynamics, 2017, 49, 753-773.	1.7	52
31	Historical reconstruction of the Atlantic Meridional Overturning Circulation from the ECMWF operational ocean reanalysis. Geophysical Research Letters, 2007, 34, .	1.5	51
32	A Web Map Service implementation for the visualization of multidimensional gridded environmental data. Environmental Modelling and Software, 2013, 47, 218-224.	1.9	50
33	Ocean altimeter assimilation with observationalâ€•and modelâ€bias correction. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1761-1774.	1.0	48
34	Steric sea level variability (1993â€“2010) in an ensemble of ocean reanalyses and objective analyses. Climate Dynamics, 2017, 49, 709-729.	1.7	48
35	The general circulation of the Mediterranean Sea from a 100-year simulation. Journal of Geophysical Research, 1998, 103, 1121-1135.	3.3	47
36	Estimating Oceanic Heat Content Change Using Isotherms. Journal of Climate, 2009, 22, 4953-4969.	1.2	45

#	Article	IF	Citations
37	Salinity Assimilation Using S(T): Covariance Relationships. Monthly Weather Review, 2006, 134, 759-771.	0.5	44
38	Towards seasonal Arctic shipping route predictions. Environmental Research Letters, 2017, 12, 084005.	2.2	44
39	Evaluation of the S(T) assimilation method with the Argo dataset. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 739-756.	1.0	43
40	Impact of the North Atlantic Oscillation on the transâ€Atlantic migrations of the European eel (Anguilla anguilla). Journal of Geophysical Research, 2008, 113, .	3.3	42
41	A hydraulic box model study of the Mediterranean response to postglacial sea-level rise. Paleoceanography, 2003, 18, n/a-n/a.	3.0	41
42	On the importance of the choice of wind stress forcing to the modeling of the Mediterranean Sea circulation. Journal of Geophysical Research, 1998, 103, 15729-15749.	3.3	39
43	A new perspective on warming of the global oceans. Geophysical Research Letters, 2009, 36, .	1.5	37
44	Marine ecosystem models for earth systems applications: The MarQUEST experience. Journal of Marine Systems, 2010, 81, 19-33.	0.9	37
45	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. Cryosphere, 2015, 9, 2237-2251.	1.5	34
46	Mean dynamic topography: intercomparisons and errors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 903-916.	1.6	33
47	Transports and budgets in a 1/4 Â° global ocean reanalysis 1989â€“2010. Ocean Science, 2012, 8, 333-344.	1.3	33
48	Mechanisms Linking Volcanic Aerosols to the Atlantic Meridional Overturning Circulation. Journal of Climate, 2012, 25, 3039-3051.	1.2	32
49	Interpretation of Water Mass Transformations Diagnosed from Data Assimilation. Journal of Physical Oceanography, 2003, 33, 485-498.	0.7	31
50	Seasonal and Interannual Variability in a Model of the Mediterranean under Derived Flux Forcing. Journal of Physical Oceanography, 2000, 30, 1069-1082.	0.7	30
51	A neural network atmospheric model for hybrid coupled modelling. Climate Dynamics, 2001, 17, 445-455.	1.7	30
52	The decay of modons due to Rossby wave radiation. Physics of Fluids, 1994, 6, 3487-3497.	1.6	27
53	Vacillation cycles and blocking in a channel. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 873-895.	1.0	26
54	The geoid EDIN2000 and mean sea surface topography around the British Isles. Geophysical Journal International, 2004, 157, 565-577.	1.0	26

#	Article	IF	Citations
55	GODIVA2: interactive visualization of environmental data on the Web. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1035-1039.	1.6	26
56	An ocean modelling and assimilation guide to using GOCE geoid products. Ocean Science, 2011, 7, 151-164.	1.3	26
57	Aspects of designing and evaluating seasonalâ€toâ€interannual Arctic seaâ€ice prediction systems. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 672-683.	1.0	26
58	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, 1003-1014.	1.7	26
59	A comparison of two methods for the assimilation of altimeter data into a shallow-water model. Dynamics of Atmospheres and Oceans, 1993, 17, 89-133.	0.7	25
60	Eddy-Forced Coherent Structures As A Prototype of Atmospheric Blocking. , 1987, 113, 681.		25
61	Sea Level Assimilation Experiments in the Tropical Pacific. Journal of Physical Oceanography, 2001, 31, 305-323.	0.7	24
62	Initialization of Seasonal Forecasts Assimilating Sea Level and Temperature Observations. Journal of Climate, 2001, 14, 4292-4307.	1.2	23
63	Impact of hydrographic data assimilation on the modelled Atlantic meridional overturning circulation. Ocean Science, 2010, 6, 761-774.	1.3	23
64	Isolated Anomalies in Westerly Jet Streams: A Unified Approach. Journals of the Atmospheric Sciences, 1991, 48, 510-526.	0.6	22
65	Modelling changes in Mediterranean thermohaline circulation 1987â€“1995. Journal of Marine Systems, 2002, 33-34, 51-62.	0.9	21
66	Freshwater and heat transports from global ocean synthesis. Journal of Geophysical Research: Oceans, 2014, 119, 394-409.	1.0	21
67	An assessment of upper ocean salinity content from the Ocean Reanalyses Inter-comparison Project (ORA-IP). Climate Dynamics, 2017, 49, 1009-1029.	1.7	21
68	Altimeter assimilation in the OCCAM global model. Journal of Marine Systems, 2000, 26, 303-322.	0.9	20
69	Modeling the diurnal variability of sea surface temperatures. Journal of Geophysical Research, 2008, 113, .	3.3	20
70	Mechanisms of Atlantic Meridional Overturning Circulation variability simulated by the NEMO model. Ocean Science, 2014, 10, 645-656.	1.3	20
71	Altimeter assimilation in the OCCAM global model Part II: TOPEX/POSEIDON and ERS-1 assimilation. Journal of Marine Systems, 2000, 26, 323-347.	0.9	19
72	Baroclinic Modons as Prototypes for Atmospheric Blocking. Journals of the Atmospheric Sciences, 1989, 46, 3202-3218.	0.6	18

#	Article	IF	Citations
73	A Study of Temperature Changes in the Upper North Atlantic: 1950â€“94. Journal of Climate, 2000, 13, 2697-2711.	1.2	18
74	Stability of the Mediterranean's thermohaline circulation under modified surface evaporative fluxes. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	18
75	Serving GODAE Data and Products to the Ocean Community. Oceanography, 2009, 22, 70-79.	0.5	18
76	Coupling of surface air and sea surface temperatures in the <scp>CERAâ€20C</scp> reanalysis. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 195-207.	1.0	18
77	How well can we measure the ocean's mean dynamic topography from space?. Journal of Geophysical Research: Oceans, 2014, 119, 3336-3356.	1.0	17
78	Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. Climate Dynamics, 2017, 49, 891-907.	1.7	16
79	South Atlantic meridional transports from NEMO-based simulations and reanalyses. Ocean Science, 2018, 14, 53-68.	1.3	16
80	Validation of ocean model syntheses against hydrography using a new web application. Journal of Operational Oceanography, 2009, 2, 29-41.	0.6	15
81	Assimilation of RAPID array observations into an ocean model. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 2105-2117.	1.0	15
82	Atlantic meridional heat transports in two ocean reanalyses evaluated against the RAPID array. Geophysical Research Letters, 2013, 40, 343-348.	1.5	14
83	Improved SSTâ€Precipitation Intraseasonal Relationships in the ECMWF Coupled Climate Reanalysis. Geophysical Research Letters, 2018, 45, 3664-3672.	1.5	14
84	A comparison of the variability of biological nutrients against depth and potential density. Biogeosciences, 2010, 7, 1263-1269.	1.3	13
85	An ECOOP web portal for visualising and comparing distributed coastal oceanography model and in situ data. Ocean Science, 2011, 7, 445-454.	1.3	13
86	Low-frequency variability in atmospheric middle latitudes. Surveys in Geophysics, 1994, 15, 1-61.	2.1	12
87	Climate model forecast biases assessed with a perturbed physics ensemble. Climate Dynamics, 2017, 49, 1729-1746.	1.7	12
88	GCM studies of intermediate and deep waters in the Mediterranean. Journal of Marine Systems, 1998, 18, 197-214.	0.9	11
89	Influence of systematic error correction on the temporal behavior of an ocean model. Journal of Geophysical Research, 2006, 111, .	3.3	11
90	Synthesis and Assimilation Systems - Essential Adjuncts to the Global Ocean Observing System. , 2010, , .		11

#	Article	IF	Citations
91	Decadal climate prediction (project GCEP). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 925-937.	1.6	10
92	A nutrient increment method for reducing bias in global biogeochemical models. Journal of Geophysical Research, 2010, 115, .	3.3	10
93	Argo real-time quality control intercomparison. Journal of Operational Oceanography, 2015, 8, 108-122.	0.6	9
94	A comparison of GOCE and drifter-based estimates of the North Atlantic steady-state surface circulation. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 140-150.	1.4	9
95	Altimetric assimilation in a Mediterranean general circulation model. Journal of Geophysical Research, 1997, 102, 10509-10523.	3.3	8
96	Modelling nutrient cycling during the eastern Mediterranean transient event 1987â€“1995 and beyond. Geophysical Research Letters, 2002, 29, 5-1.	1.5	8
97	Diagnosing Natural Variability of North Atlantic Water Masses in HadCM3. Journal of Climate, 2005, 18, 1925-1941.	1.2	8
98	North Atlantic Subtropical Mode Waters and Ocean Memory in HadCM3. Journal of Climate, 2006, 19, 1126-1148.	1.2	8
99	Assimilation impacts on Arctic Ocean circulation, heat and freshwater budgets. Ocean Modelling, 2011, 40, 147-163.	1.0	8
100	A novel transport assimilation method for the Atlantic meridional overturning circulation at 26Â°N. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2563-2572.	1.0	8
101	Decoupled Freshwater Transport and Meridional Overturning in the South Atlantic. Geophysical Research Letters, 2019, 46, 2178-2186.	1.5	8
102	Inverse Modeling of Global and Regional Energy and Water Cycle Fluxes using Earth Observation Data. Journal of Climate, 2020, 33, 1707-1723.	1.2	8
103	Persistent Jet Stream Intensifications: A Comparison between Theory and Data. Journals of the Atmospheric Sciences, 1993, 50, 145-154.	0.6	7
104	Palaeoceanography and numerical modelling: the Mediterranean Sea at times of sapropel formation. Geological Society Special Publication, 2000, 181, 135-149.	0.8	7
105	Combining altimetric/gravimetric and ocean model mean dynamic topography models in the GOCINA region. , 2007, , 3-10.		7
106	The assimilation of satelliteâ€derived sea surface temperatures into a diurnal cycle model. Journal of Geophysical Research, 2008, 113, .	3.3	7
107	Comparing the UK Met Office Climate Prediction System DePreSys with idealized predictability in the HadCM3 model. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 81-90.	1.0	7
108	Ocean Data Assimilation. , 2010, , 517-547.		7

#	Article	IF	Citations
109	Frictional sinking of the dense water overflow in az-Coordinate OGCM of the Mediterranean Sea. Geophysical Research Letters, 2000, 27, 3969-3972.	1.5	6
110	Running climate models on grids using G-R <scp>ex</scp>. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 847-853.	1.6	6
111	Improving seasonal forecasting through tropical ocean bias corrections. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2797-2807.	1.0	6
112	Combined Use of Altimetry and In Situ Gravity Data for Coastal Dynamics Studies. Space Science Reviews, 2003, 108, 205-216.	3.7	5
113	Centuryâ€ofâ€Information Research (CIR): A Strategy for Research and Innovation in the Century of Information. Prometheus, 2009, 27, 27-45.	0.2	5
114	A perturbed biogeochemistry model ensemble evaluated against in situ and satellite observations. Biogeosciences, 2018, 15, 6685-6711.	1.3	5
115	A diagnostic study of interpentadal variability in the North Atlantic Ocean using a finite element model. Ocean Modelling, 2005, 10, 69-81.	1.0	4
116	The link between the Barents Sea and ENSO events simulated by NEMO model. Ocean Science, 2012, 8, 971-982.	1.3	4
117	Using lagged covariances in data assimilation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2017, 69, 1377589.	0.8	4
118	Perturbed Biology and Physics Signatures in a 1-D Ocean Biogeochemical Model Ensemble. Frontiers in Marine Science, 2020, 7, .	1.2	3
119	Uses of Ocean Data Assimilation and Ocean State Estimation. , 2003, , 289-296.		3
120	Land surface anomaly simulations and predictions with a climate model: an El NiÃ±o Southern Oscillation case study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 917-923.	1.6	2
121	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. Open Research Europe, 0, 1, 43.	2.0	2
122	Combined Use of Altimetry and in Situ Gravity Data for Coastal Dynamics Studies. Space Sciences Series of ISSI, 2003, , 205-216.	0.0	2
123	Improved High Resolution Ocean Reanalyses Using a Simple Smoother Algorithm. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002626.	1.3	2
124	Satellite altimetry data assimilation in the OCCAM global ocean model. Physics and Chemistry of the Earth, 1999, 24, 375-380.	0.6	1
125	Styx Grid Services: Lightweight Middleware for Efficient Scientific Workflows. Scientific Programming, 2006, 14, 209-216.	0.5	1
126	Effect of ENSO Phase on Large-Scale Snow Water Equivalent Distribution in a GCM. Journal of Climate, 2009, 22, 6153-6167.	1.2	1

#	Article	IF	Citations
127	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. Open Research Europe, 0, 1, 43.	2.0	1
128	Altimeter Covariances and Errors Treatment. , 2003, , 297-308.		1
129	Assimilation of Hydrographic Data and Analysis of Model Bias. , 2003, , 309-320.		1
130	Can the boundary profiles at 26Â°â€‰N be used to extract buoyancy-forced Atlantic Meridional Overturning Circulation signals?. Ocean Science, 2020, 16, 1067-1088.	1.3	1
131	Variability and Feedbacks in the Atlantic Freshwater Budget of CMIP5 Models With Reference to Atlantic Meridional Overturning Circulation Stability. Frontiers in Marine Science, 0, 9, .	1.2	1
132	Building Simple, Easy-to-Use Grids with Styx Grid Services and SSH. , 2006, , .		0
133	Delivering NCOF operational marine data through the Internet. Journal of Operational Oceanography, 2008, 1, 35-39.	0.6	0