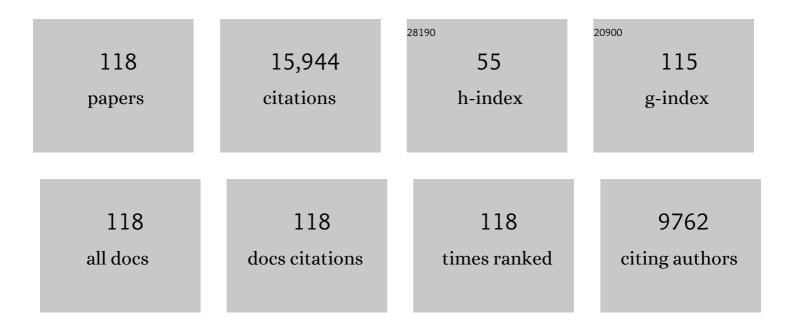
List of Publications by Year in descending order

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ΙΟΗΝ ΜΑΡSHALL

#	Article	IF	CITATIONS
1	A finite-volume, incompressible Navier Stokes model for studies of the ocean on parallel computers. Journal of Geophysical Research, 1997, 102, 5753-5766.	3.3	1,968
2	Hydrostatic, quasi-hydrostatic, and nonhydrostatic ocean modeling. Journal of Geophysical Research, 1997, 102, 5733-5752.	3.3	1,089
3	Open-ocean convection: Observations, theory, and models. Reviews of Geophysics, 1999, 37, 1-64.	9.0	932
4	North Atlantic climate variability: phenomena, impacts and mechanisms. International Journal of Climatology, 2001, 21, 1863-1898.	1.5	860
5	Closure of the meridional overturning circulation through Southern Ocean upwelling. Nature Geoscience, 2012, 5, 171-180.	5.4	757
6	Representation of Topography by Shaved Cells in a Height Coordinate Ocean Model. Monthly Weather Review, 1997, 125, 2293-2315.	0.5	520
7	Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review. Reviews of Geophysics, 2016, 54, 5-63.	9.0	508
8	Specification of Eddy Transfer Coefficients in Coarse-Resolution Ocean Circulation Models*. Journal of Physical Oceanography, 1997, 27, 381-402.	0.7	425
9	Residual-Mean Solutions for the Antarctic Circumpolar Current and Its Associated Overturning Circulation. Journal of Physical Oceanography, 2003, 33, 2341-2354.	0.7	383
10	Southern Ocean warming delayed by circumpolar upwelling and equatorward transport. Nature Geoscience, 2016, 9, 549-554.	5.4	381
11	A Study of the Interaction of the North Atlantic Oscillation with Ocean Circulation. Journal of Climate, 2001, 14, 1399-1421.	1.2	315
12	The Relationship between ITCZ Location and Cross-Equatorial Atmospheric Heat Transport: From the Seasonal Cycle to the Last Glacial Maximum. Journal of Climate, 2013, 26, 3597-3618.	1.2	298
13	Have Aerosols Caused the Observed Atlantic Multidecadal Variability?. Journals of the Atmospheric Sciences, 2013, 70, 1135-1144.	0.6	282
14	Gravitational, Symmetric, and Baroclinic Instability of the Ocean Mixed Layer. Journal of Physical Oceanography, 1998, 28, 634-658.	0.7	267
15	Convection with Rotation in a Neutral Ocean: A Study of Open-Ocean Deep Convection. Journal of Physical Oceanography, 1993, 23, 1009-1039.	0.7	258
16	Implementation of an Atmosphere–Ocean General Circulation Model on the Expanded Spherical Cube. Monthly Weather Review, 2004, 132, 2845-2863.	0.5	249
17	Changes in ITCZ location and cross-equatorial heat transport at the Last Glacial Maximum, Heinrich Stadial 1, and the mid-Holocene. Earth and Planetary Science Letters, 2014, 390, 69-79.	1.8	241
18	Toward a Dynamical Understanding of Planetary-Scale Flow Regimes. Journals of the Atmospheric Sciences, 1993, 50, 1792-1818.	0.6	236

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19	Estimates and Implications of Surface Eddy Diffusivity in the Southern Ocean Derived from Tracer Transport. Journal of Physical Oceanography, 2006, 36, 1806-1821.	0.7	198
20	Antarctic Ocean and Sea Ice Response to Ozone Depletion: A Two-Time-Scale Problem. Journal of Climate, 2015, 28, 1206-1226.	1.2	179
21	Scales, Growth Rates, and Spectral Fluxes of Baroclinic Instability in the Ocean. Journal of Physical Oceanography, 2011, 41, 1057-1076.	0.7	173
22	Dynamics of Isolated Convective Regions in the Ocean. Journal of Physical Oceanography, 1996, 26, 1721-1734.	0.7	167
23	The ocean's role in the transient response of climate to abrupt greenhouse gas forcing. Climate Dynamics, 2015, 44, 2287-2299.	1.7	162
24	Integral Effects of Deep Convection. Journal of Physical Oceanography, 1995, 25, 855-872.	0.7	156
25	Constructing the Residual Circulation of the ACC from Observations. Journal of Physical Oceanography, 2002, 32, 3315-3327.	0.7	153
26	Estimating Eddy Stresses by Fitting Dynamics to Observations Using a Residual-Mean Ocean Circulation Model and Its Adjoint. Journal of Physical Oceanography, 2005, 35, 1891-1910.	0.7	152
27	Understanding Arctic Ocean Circulation: A Review of Ocean Dynamics in a Changing Climate. Journal of Geophysical Research: Oceans, 2020, 125, e2018JC014378.	1.0	150
28	A Note on Rotational and Divergent Eddy Fluxes. Journal of Physical Oceanography, 1981, 11, 1677-1680.	0.7	141
29	Mechanisms of air-sea CO2flux variability in the equatorial Pacific and the North Atlantic. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	134
30	The Dependence of Southern Ocean Meridional Overturning on Wind Stress. Journal of Physical Oceanography, 2011, 41, 2261-2278.	0.7	134
31	Impact of the Atlantic meridional overturning circulation on ocean heat storage and transient climate change. Geophysical Research Letters, 2014, 41, 2108-2116.	1.5	130
32	The Role of Eddy Transfer in Setting the Stratification and Transport of a Circumpolar Current. Journal of Physical Oceanography, 2002, 32, 39-54.	0.7	128
33	Interannual variability of phytoplankton abundances in the North Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2323-2344.	0.6	127
34	Enhancement of Mesoscale Eddy Stirring at Steering Levels in the Southern Ocean. Journal of Physical Oceanography, 2010, 40, 170-184.	0.7	126
35	Effects of vertical variations of thickness diffusivity in an ocean general circulation model. Ocean Modelling, 2007, 18, 122-141.	1.0	117
36	Evidence for Enhanced Eddy Mixing at Middepth in the Southern Ocean. Journal of Physical Oceanography, 2009, 39, 50-69.	0.7	117

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37	The ocean's role in polar climate change: asymmetric Arctic and Antarctic responses to greenhouse gas and ozone forcing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130040.	1.6	114
38	The Partitioning of Poleward Heat Transport between the Atmosphere and Ocean. Journals of the Atmospheric Sciences, 2006, 63, 1498-1511.	0.6	111
39	A Heton Model of the Spreading Phase of Open-Ocean Deep Convection. Journal of Physical Oceanography, 1993, 23, 1040-1056.	0.7	105
40	Observations of atmosphere-ocean coupling in the North Atlantic. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1893-1916.	1.0	99
41	Potential Vorticity Constraints on the Dynamics and Hydrography of the Southern Ocean. Journal of Physical Oceanography, 1993, 23, 465-487.	0.7	96
42	Coupling of Trade Winds with Ocean Circulation Damps ITCZ Shifts. Journal of Climate, 2017, 30, 4395-4411.	1.2	93
43	Explorations of Atmosphere–Ocean–Ice Climates on an Aquaplanet and Their Meridional Energy Transports. Journals of the Atmospheric Sciences, 2009, 66, 1593-1611.	0.6	89
44	Climate Determinism Revisited: Multiple Equilibria in a Complex Climate Model. Journal of Climate, 2011, 24, 992-1012.	1.2	87
45	Restratification after Deep Convection. Journal of Physical Oceanography, 1997, 27, 2276-2287.	0.7	85
46	Fast and slow responses of Southern Ocean sea surface temperature to SAM in coupled climate models. Climate Dynamics, 2017, 48, 1595-1609.	1.7	85
47	Localization of Deep Water Formation: Role of Atmospheric Moisture Transport and Geometrical Constraints on Ocean Circulation. Journal of Climate, 2010, 23, 1456-1476.	1.2	81
48	Conservation of properties in a free-surface model. Ocean Modelling, 2004, 6, 221-244.	1.0	78
49	Climate at high-obliquity. Icarus, 2014, 243, 236-248.	1.1	76
50	Representation of convective plumes by vertical adjustment. Journal of Geophysical Research, 1996, 101, 18175-18182.	3.3	74
51	Can Eddies Set Ocean Stratification?. Journal of Physical Oceanography, 2002, 32, 26-38.	0.7	73
52	Sea ice–ocean coupling using a rescaled vertical coordinate zâ^—. Ocean Modelling, 2008, 24, 1-14.	1.0	72
53	Direct Estimate of Lateral Eddy Diffusivity Upstream of Drake Passage. Journal of Physical Oceanography, 2014, 44, 2593-2616.	0.7	68
54	Hydrothermal plume dynamics on Europa: Implications for chaos formation. Journal of Geophysical Research, 2004, 109, .	3.3	66

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55	Atmosphere–Ocean Modeling Exploiting Fluid Isomorphisms. Monthly Weather Review, 2004, 132, 2882-2894.	0.5	61
56	Control of Lower-Limb Overturning Circulation in the Southern Ocean by Diapycnal Mixing and Mesoscale Eddy Transfer. Journal of Physical Oceanography, 2008, 38, 2832-2845.	0.7	61
57	Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts. Quaternary Science Reviews, 2018, 180, 214-228.	1.4	58
58	Mean Climate and Variability of the Atmosphere and Ocean on an Aquaplanet. Journals of the Atmospheric Sciences, 2007, 64, 4270-4286.	0.6	57
59	Ocean Heat Transport, Sea Ice, and Multiple Climate States: Insights from Energy Balance Models. Journals of the Atmospheric Sciences, 2009, 66, 2828-2843.	0.6	56
60	The Interannual Variability of Tropical Precipitation and Interhemispheric Energy Transport. Journal of Climate, 2014, 27, 3377-3392.	1.2	56
61	The Iceâ€Ocean Governor: Iceâ€Ocean Stress Feedback Limits Beaufort Gyre Spinâ€Up. Geophysical Research Letters, 2018, 45, 11,293.	1.5	50
62	Controlling spurious diapycnal mixing in eddy-resolving height-coordinate ocean models – Insights from virtual deliberate tracer release experiments. Ocean Modelling, 2012, 45-46, 14-26.	1.0	49
63	Exploring Mechanisms of Variability and Predictability of Atlantic Meridional Overturning Circulation in Two Coupled Climate Models. Journal of Climate, 2012, 25, 4067-4080.	1.2	47
64	A model of the upper branch of the meridional overturning of the southern ocean. Progress in Oceanography, 2006, 70, 331-345.	1.5	45
65	On the Relationship between Decadal Buoyancy Anomalies and Variability of the Atlantic Meridional Overturning Circulation. Journal of Climate, 2012, 25, 8009-8030.	1.2	45
66	What controls the uptake of transient tracers in the Southern Ocean?. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	44
67	Understanding the Regional Variability of Eddy Diffusivity in the Pacific Sector of the Southern Ocean. Journal of Physical Oceanography, 2009, 39, 2011-2023.	0.7	43
68	Representation of Eddies in Primitive Equation Models by a PV Flux. Journal of Physical Oceanography, 2000, 30, 2481-2503.	0.7	42
69	Rationalizing the Spatial Distribution of Mesoscale Eddy Diffusivity in Terms of Mixing Length Theory. Journal of Physical Oceanography, 2014, 44, 1523-1540.	0.7	42
70	The growth of convective plumes at seafloor hot springs. Journal of Marine Research, 1995, 53, 1025-1057.	0.3	41
71	Regimes and scaling laws for rotating deep convection in the ocean. Dynamics of Atmospheres and Oceans, 1995, 21, 227-256.	0.7	41
72	Seasonally derived components of the Canada Basin halocline. Geophysical Research Letters, 2017, 44, 5008-5015.	1.5	41

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73	Observational Inferences of Lateral Eddy Diffusivity in the Halocline of the Beaufort Gyre. Geophysical Research Letters, 2017, 44, 12,331.	1.5	41
74	Super-parameterization in ocean modeling: Application to deep convection. Ocean Modelling, 2011, 36, 90-101.	1.0	40
75	Efficient ocean modeling using non-hydrostatic algorithms. Journal of Marine Systems, 1998, 18, 115-134.	0.9	39
76	Contributions of Greenhouse Gas Forcing and the Southern Annular Mode to Historical Southern Ocean Surface Temperature Trends. Geophysical Research Letters, 2018, 45, 1086-1097.	1.5	36
77	The â€~sticky' ITCZ: ocean-moderated ITCZ shifts. Climate Dynamics, 2019, 53, 1-19.	1.7	36
78	Testing theories of the vertical stratification of the ACC against observations. Dynamics of Atmospheres and Oceans, 2002, 36, 233-246.	0.7	34
79	Antarctic Glacial Melt as a Driver of Recent Southern Ocean Climate Trends. Geophysical Research Letters, 2020, 47, e2019GL086892.	1.5	34
80	Ocean Basin Geometry and the Salinification of the Atlantic Ocean. Journal of Climate, 2013, 26, 6163-6184.	1.2	33
81	Robustness of an Effective Diffusivity Diagnostic in Oceanic Flows. Journal of Physical Oceanography, 2009, 39, 1993-2009.	0.7	32
82	The dependence of the ocean's MOC on mesoscale eddy diffusivities: A model study. Ocean Modelling, 2017, 111, 1-8.	1.0	31
83	A Threeâ€Way Balance in the Beaufort Gyre: The Iceâ€Ocean Governor, Wind Stress, and Eddy Diffusivity. Journal of Geophysical Research: Oceans, 2019, 124, 3107-3124.	1.0	31
84	Transformed Eulerian-Mean Theory. Part II: Potential Vorticity Homogenization and the Equilibrium of a Wind- and Buoyancy-Driven Zonal Flow. Journal of Physical Oceanography, 2005, 35, 175-187.	0.7	29
85	Eddy Modulation of Air–Sea Interaction and Convection. Journal of Physical Oceanography, 2008, 38, 65-83.	0.7	29
86	Twentieth century correlations between extratropical SST variability and ITCZ shifts. Geophysical Research Letters, 2017, 44, 9039-9047.	1.5	28
87	Eddy Compensation Dampens Southern Ocean Sea Surface Temperature Response to Westerly Wind Trends. Geophysical Research Letters, 2019, 46, 4365-4377.	1.5	26
88	The influence of the ambient flow on the spreading of convected water masses. Journal of Marine Research, 1998, 56, 107-139.	0.3	25
89	Evaluating carbon sequestration efficiency in an ocean circulation model by adjoint sensitivity analysis. Journal of Geophysical Research, 2004, 109, .	3.3	25
90	Source waters for the highly productive Patagonian shelf in the southwestern Atlantic. Journal of Marine Systems, 2016, 158, 120-128.	0.9	25

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91	Circulation and Stirring in the Southeast Pacific Ocean and the Scotia Sea Sectors of the Antarctic Circumpolar Current. Journal of Physical Oceanography, 2016, 46, 2005-2027.	0.7	24
92	Linking Clacialâ€Interglacial States to Multiple Equilibria of Climate. Geophysical Research Letters, 2018, 45, 9160-9170.	1.5	24
93	Exploring Ocean Circulation on Icy Moons Heated From Below. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	24
94	The Antarctic Circumpolar Current in Three Dimensions. Journal of Physical Oceanography, 2006, 36, 651-669.	0.7	23
95	Mesoscale modulation of airâ€sea <scp>CO</scp> ₂ flux in <scp>D</scp> rake <scp>P</scp> assage. Journal of Geophysical Research: Oceans, 2016, 121, 6635-6649.	1.0	23
96	"Climate response functions―for the Arctic Ocean: aÂproposed coordinated modelling experiment. Geoscientific Model Development, 2017, 10, 2833-2848.	1.3	23
97	A Laboratory Model of Thermocline Depth and Exchange Fluxes across Circumpolar Fronts*. Journal of Physical Oceanography, 2004, 34, 656-667.	0.7	18
98	The Climate Response to Multiple Volcanic Eruptions Mediated by Ocean Heat Uptake: Damping Processes and Accumulation Potential. Journal of Climate, 2018, 31, 8669-8687.	1.2	18
99	Seaâ€lce Melt Driven by Iceâ€Ocean Stresses on the Mesoscale. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016404.	1.0	15
100	A Statistical Theory for the "Patchiness―of Open-Ocean Deep Convection: The Effect of Preconditioning. Journal of Physical Oceanography, 2002, 32, 599-626.	0.7	14
101	Laboratory and Numerical Experiments in Oceanic Convection. , 1994, , 173-201.		12
102	Impact of Anomalous Ocean Heat Transport on the North Atlantic Oscillation. Journal of Climate, 2005, 18, 4955-4969.	1.2	11
103	Anomalous chlorofluorocarbon uptake by mesoscale eddies in the <scp>D</scp> rake <scp>P</scp> assage region. Journal of Geophysical Research: Oceans, 2015, 120, 1065-1078.	1.0	11
104	Impact of Currentâ€Wind Interaction on Vertical Processes in the Southern Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016046.	1.0	10
105	Mechanisms of Thermohaline Mode Switching with Application to Warm Equable Climates. Journal of Climate, 2002, 15, 2056-2072.	1.2	10
106	Using Neutral Singular Vectors to Study Low-Frequency Atmospheric Variability. Journals of the Atmospheric Sciences, 2002, 59, 3206-3222.	0.6	10
107	Equilibration of a Warm Pumped Lens on al ² plane. Journal of Physical Oceanography, 2003, 33, 885-899.	0.7	8
108	The Role of Neutral Singular Vectors in Midlatitude Air–Sea Coupling. Journal of Climate, 2003, 16, 88-102.	1.2	7

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109	Impact of Nearâ€Inertial Waves on Vertical Mixing and Airâ€5ea CO ₂ Fluxes in the Southern Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 4605-4617.	1.0	7
110	Freshwater transport in the coupled ocean-atmosphere system: a passive ocean. Ocean Dynamics, 2015, 65, 1029-1036.	0.9	6
111	A Comparison of Implicitly Parallel Multithreaded and Data-Parallel Implementations of an Ocean Model. Journal of Parallel and Distributed Computing, 1998, 48, 1-51.	2.7	5
112	Why is there net surface heating over the Antarctic Circumpolar Current?. Ocean Dynamics, 2015, 65, 751-760.	0.9	5
113	On the effects of the ocean on atmospheric CFC-11 lifetimes and emissions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2021528118.	3.3	5
114	Water mass transformation and overturning circulation in the Arabian Gulf. Journal of Physical Oceanography, 2021, , .	0.7	4
115	Observations of Upwelling and Downwelling Around Antarctica Mediated by Sea Ice. Frontiers in Marine Science, 0, 9, .	1.2	4
116	Suppressed <i>p</i> CO ₂ in the Southern Ocean Due to the Interaction Between Current and Wind. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017884.	1.0	3
117	Mechanisms of Buoyancy Transport through Mixed Layers and Statistical Signatures from Isobaric Floats. Journal of Physical Oceanography, 2002, 32, 545-557.	0.7	2
118	Planet-in-a-Bottle: A Numerical Fluid-Laboratory System. Lecture Notes in Computer Science, 2007, , 1163-1170.	1.0	0