

# John C Marshall

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

10,260  
citations

40  
h-index

84  
g-index

84  
ext. papers

11,557  
ext. citations

4.9  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
80	Suppressed pCO <sub>2</sub> in the Southern Ocean Due to the Interaction Between Current and Wind. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017884	3.3	0
79	Interannual SAM Modulation of Antarctic Sea Ice Extent Does Not Account for Its Long-Term Trends, Pointing to a Limited Role for Ozone Depletion. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094871	4.9	1
78	On the effects of the ocean on atmospheric CFC-11 lifetimes and emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
77	CMIP6 Historical Simulations (1850-2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2019MS002034	7.1	12
76	Southern Ocean Heat Storage, Reemergence, and Winter Sea Ice Decline Induced by Summertime Winds. <i>Journal of Climate</i> , <b>2021</b> , 34, 1403-1415	4.4	2
75	Uncertainty Quantification of Ocean Parameterizations: Application to the K-Profile-Parameterization for Penetrative Convection. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002108	7.1	3
74	Sea-Ice Melt Driven by Ice-Ocean Stresses on the Mesoscale. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016404	3.3	6
73	Understanding Arctic Ocean Circulation: A Review of Ocean Dynamics in a Changing Climate. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2018JC014378	3.3	55
72	Polar Phasing and Cross-Equatorial Heat Transfer Following a Simulated Abrupt NH Warming of a Glacial Climate. <i>Paleoceanography and Paleoclimatology</i> , <b>2020</b> , 35, e2019PA003810	3.3	
71	Antarctic Glacial Melt as a Driver of Recent Southern Ocean Climate Trends. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086892	4.9	10
70	Impact of Current-Wind Interaction on Vertical Processes in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016046	3.3	5
69	Oceananigans.jl: Fast and friendly geophysical fluid dynamics on GPUs. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2018	5.2	7
68	Wind Feedback Mediated by Sea Ice in the Nordic Seas. <i>Journal of Climate</i> , <b>2020</b> , 33, 6621-6632	4.4	1
67	Linking ITCZ Migrations to the AMOC and North Atlantic/Pacific SST Decadal Variability. <i>Journal of Climate</i> , <b>2020</b> , 33, 893-905	4.4	10
66	Exploring the Role of the Beaufort Ocean Governor and Mesoscale Eddies in the Equilibration of the Beaufort Gyre: Lessons from Observations. <i>Journal of Physical Oceanography</i> , <b>2020</b> , 50, 269-277	2.4	5
65	GISS-E2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS002025	7.1	20
64	On the Feedback of Ice-Ocean Stress Coupling from Geostrophic Currents in an Anticyclonic Wind Regime over the Beaufort Gyre. <i>Journal of Physical Oceanography</i> , <b>2019</b> , 49, 369-383	2.4	15

63	Eddy Compensation Dampens Southern Ocean Sea Surface Temperature Response to Westerly Wind Trends. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4365-4377	4.9	13
62	A Three-Way Balance in the Beaufort Gyre: The Ice-Ocean Governor, Wind Stress, and Eddy Diffusivity. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 3107-3124	3.3	15
61	The Southern Ocean Sea Surface Temperature Response to Ozone Depletion: A Multimodel Comparison. <i>Journal of Climate</i> , <b>2019</b> , 32, 5107-5121	4.4	7
60	Impact of Near-Inertial Waves on Vertical Mixing and Air-Sea CO <sub>2</sub> Fluxes in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 4605-4617	3.3	4
59	Contributions of Greenhouse Gas Forcing and the Southern Annular Mode to Historical Southern Ocean Surface Temperature Trends. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1086-1097	4.9	21
58	Observations of Seasonal Upwelling and Downwelling in the Beaufort Sea Mediated by Sea Ice. <i>Journal of Physical Oceanography</i> , <b>2018</b> , 48, 795-805	2.4	42
57	Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts. <i>Quaternary Science Reviews</i> , <b>2018</b> , 180, 214-228	3.9	33
56	Western U.S. lake expansions during Heinrich stadials linked to Pacific Hadley circulation. <i>Science Advances</i> , <b>2018</b> , 4, eaav0118	14.3	24
55	The Ice-Ocean Governor: Ice-Ocean Stress Feedback Limits Beaufort Gyre Spin-Up. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,293	4.9	30
54	Seasonal Variation in the Correlation Between Anomalies of Sea Level and Chlorophyll in the Antarctic Circumpolar Current. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5011-5019	4.9	17
53	The dependence of the ocean's MOC on mesoscale eddy diffusivities: A model study. <i>Ocean Modelling</i> , <b>2017</b> , 111, 1-8	3	26
52	Coupling of Trade Winds with Ocean Circulation Damps ITCZ Shifts. <i>Journal of Climate</i> , <b>2017</b> , 30, 4395-4411	4.1	79
51	Observed mesoscale eddy signatures in Southern Ocean surface mixed-layer depth. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 617-635	3.3	32
50	Twentieth century correlations between extratropical SST variability and ITCZ shifts. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 9039-9047	4.9	20
49	Seasonally derived components of the Canada Basin halocline. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5008-5015	4.9	25
48	Sensitivity of Antarctic sea ice to the Southern Annular Mode in coupled climate models. <i>Climate Dynamics</i> , <b>2017</b> , 49, 1813-1831	4.2	45
47	Fast and slow responses of Southern Ocean sea surface temperature to SAM in coupled climate models. <i>Climate Dynamics</i> , <b>2017</b> , 48, 1595-1609	4.2	69
46	Role of the Ocean's AMOC in setting the Uptake Efficiency of Transient Tracers. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5590-5598	4.9	10

45	Observational Inferences of Lateral Eddy Diffusivity in the Halocline of the Beaufort Gyre. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 12,331	4.9	30
44	Climate response functions for the Arctic Ocean: a proposed coordinated modelling experiment. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 2833-2848	6.3	18
43	Modulation of the Seasonal Cycle of Antarctic Sea Ice Extent Related to the Southern Annular Mode. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 9761-9768	4.9	32
42	Mesoscale modulation of air-sea CO <sub>2</sub> flux in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 6635-6649	3.3	13
41	Southern Ocean warming delayed by circumpolar upwelling and equatorward transport. <i>Nature Geoscience</i> , <b>2016</b> , 9, 549-554	18.3	264
40	Estimates of Air-Sea Feedbacks on Sea Surface Temperature Anomalies in the Southern Ocean. <i>Journal of Climate</i> , <b>2016</b> , 29, 439-454	4.4	19
39	Source waters for the highly productive Patagonian shelf in the southwestern Atlantic. <i>Journal of Marine Systems</i> , <b>2016</b> , 158, 120-128	2.7	20
38	Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review. <i>Reviews of Geophysics</i> , <b>2016</b> , 54, 5-63	23.1	317
37	Anomalous chlorofluorocarbon uptake by mesoscale eddies in the Drake Passage region. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 1065-1078	3.3	10
36	The ocean's role in the transient response of climate to abrupt greenhouse gas forcing. <i>Climate Dynamics</i> , <b>2015</b> , 44, 2287-2299	4.2	114
35	Antarctic Ocean and Sea Ice Response to Ozone Depletion: A Two-Time-Scale Problem. <i>Journal of Climate</i> , <b>2015</b> , 28, 1206-1226	4.4	139
34	Impact of the Atlantic meridional overturning circulation on ocean heat storage and transient climate change. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2108-2116	4.9	98
33	Direct Estimate of Lateral Eddy Diffusivity Upstream of Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 2593-2616	2.4	52
32	Changes in ITCZ location and cross-equatorial heat transport at the Last Glacial Maximum, Heinrich Stadial 1, and the mid-Holocene. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 390, 69-79	5.3	187
31	The ocean's role in polar climate change: asymmetric Arctic and Antarctic responses to greenhouse gas and ozone forcing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372, 20130040	3	97
30	The Interannual Variability of Tropical Precipitation and Interhemispheric Energy Transport. <i>Journal of Climate</i> , <b>2014</b> , 27, 3377-3392	4.4	51
29	The ocean's role in setting the mean position of the Inter-Tropical Convergence Zone. <i>Climate Dynamics</i> , <b>2014</b> , 42, 1967-1979	4.2	172
28	Global surface eddy diffusivities derived from satellite altimetry. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 901-916	3.3	107

27	The Relationship between ITCZ Location and Cross-Equatorial Atmospheric Heat Transport: From the Seasonal Cycle to the Last Glacial Maximum. <i>Journal of Climate</i> , <b>2013</b> , 26, 3597-3618	4.4	237
26	Ocean Basin Geometry and the Salinification of the Atlantic Ocean. <i>Journal of Climate</i> , <b>2013</b> , 26, 6163-6184	4.4	29
25	Closure of the meridional overturning circulation through Southern Ocean upwelling. <i>Nature Geoscience</i> , <b>2012</b> , 5, 171-180	18.3	568
24	Exploring Mechanisms of Variability and Predictability of Atlantic Meridional Overturning Circulation in Two Coupled Climate Models. <i>Journal of Climate</i> , <b>2012</b> , 25, 4067-4080	4.4	41
23	Scales, Growth Rates, and Spectral Fluxes of Baroclinic Instability in the Ocean. <i>Journal of Physical Oceanography</i> , <b>2011</b> , 41, 1057-1076	2.4	141
22	Climate Determinism Revisited: Multiple Equilibria in a Complex Climate Model. <i>Journal of Climate</i> , <b>2011</b> , 24, 992-1012	4.4	74
21	The Dependence of Southern Ocean Meridional Overturning on Wind Stress. <i>Journal of Physical Oceanography</i> , <b>2011</b> , 41, 2261-2278	2.4	111
20	Control of Lower-Limb Overturning Circulation in the Southern Ocean by Diapycnal Mixing and Mesoscale Eddy Transfer. <i>Journal of Physical Oceanography</i> , <b>2008</b> , 38, 2832-2845	2.4	56
19	Carbon dioxide and oxygen fluxes in the Southern Ocean: Mechanisms of interannual variability. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	44
18	Effects of vertical variations of thickness diffusivity in an ocean general circulation model. <i>Ocean Modelling</i> , <b>2007</b> , 18, 122-141	3	101
17	Estimating Eddy Stresses by Fitting Dynamics to Observations Using a Residual-Mean Ocean Circulation Model and Its Adjoint. <i>Journal of Physical Oceanography</i> , <b>2005</b> , 35, 1891-1910	2.4	133
16	What controls the uptake of transient tracers in the Southern Ocean?. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	39
15	Implementation of an Atmosphere-Ocean General Circulation Model on the Expanded Spherical Cube. <i>Monthly Weather Review</i> , <b>2004</b> , 132, 2845-2863	2.4	213
14	Residual-Mean Solutions for the Antarctic Circumpolar Current and Its Associated Overturning Circulation. <i>Journal of Physical Oceanography</i> , <b>2003</b> , 33, 2341-2354	2.4	305
13	The Role of Eddy Transfer in Setting the Stratification and Transport of a Circumpolar Current. <i>Journal of Physical Oceanography</i> , <b>2002</b> , 32, 39-54	2.4	112
12	Global ocean circulation during 1992-1997, estimated from ocean observations and a general circulation model. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, 1-1		261
11	Entry, Flux, and Exit of Potential Vorticity in Ocean Circulation. <i>Journal of Physical Oceanography</i> , <b>2001</b> , 31, 777-789	2.4	29
10	North Atlantic climate variability: phenomena, impacts and mechanisms. <i>International Journal of Climatology</i> , <b>2001</b> , 21, 1863-1898	3.5	764

9	Reconciling thermodynamic and dynamic methods of computation of water-mass transformation rates. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1999</b> , 46, 545-572	2.5	107
8	Open-ocean convection: Observations, theory, and models. <i>Reviews of Geophysics</i> , <b>1999</b> , 37, 1-64	23.1	788
7	Efficient ocean modeling using non-hydrostatic algorithms. <i>Journal of Marine Systems</i> , <b>1998</b> , 18, 115-134	2.7	32
6	Representation of Topography by Shaved Cells in a Height Coordinate Ocean Model. <i>Monthly Weather Review</i> , <b>1997</b> , 125, 2293-2315	2.4	445
5	Specification of Eddy Transfer Coefficients in Coarse-Resolution Ocean Circulation Models*. <i>Journal of Physical Oceanography</i> , <b>1997</b> , 27, 381-402	2.4	377
4	A finite-volume, incompressible Navier Stokes model for studies of the ocean on parallel computers. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 5753-5766		1584
3	Hydrostatic, quasi-hydrostatic, and nonhydrostatic ocean modeling. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 5733-5752		908
2	Convection with Rotation in a Neutral Ocean: A Study of Open-Ocean Deep Convection. <i>Journal of Physical Oceanography</i> , <b>1993</b> , 23, 1009-1039	2.4	230
1	On the Relationship between Subduction Rates and Diabatic Forcing of the Mixed Layer. <i>Journal of Physical Oceanography</i> , <b>1991</b> , 21, 1793-1802	2.4	42