

John Marshall

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/10873823/john-marshall-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

115
papers

12,979
citations

53
h-index

113
g-index

118
ext. papers

14,256
ext. citations

3.9
avg, IF

6.68
L-index

#	Paper	IF	Citations
115	Suppressed pCO ₂ in the Southern Ocean Due to the Interaction Between Current and Wind. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017884	3.3	0
114	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> , 2021 , 118,	11.5	3
113	Sea-Ice Melt Driven by Ice-Ocean Stresses on the Mesoscale. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016404	3.3	6
112	Understanding Arctic Ocean Circulation: A Review of Ocean Dynamics in a Changing Climate. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2018JC014378	3.3	55
111	Antarctic Glacial Melt as a Driver of Recent Southern Ocean Climate Trends. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086892	4.9	10
110	Impact of Current-Wind Interaction on Vertical Processes in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016046	3.3	5
109	The Sticky ITCZ: ocean-moderated ITCZ shifts. <i>Climate Dynamics</i> , 2019 , 53, 1-19	4.2	28
108	Eddy Compensation Dampens Southern Ocean Sea Surface Temperature Response to Westerly Wind Trends. <i>Geophysical Research Letters</i> , 2019 , 46, 4365-4377	4.9	13
107	A Three-Way Balance in the Beaufort Gyre: The Ice-Ocean Governor, Wind Stress, and Eddy Diffusivity. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 3107-3124	3.3	15
106	Impact of Near-Inertial Waves on Vertical Mixing and Air-Sea CO ₂ Fluxes in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 4605-4617	3.3	4
105	Contributions of Greenhouse Gas Forcing and the Southern Annular Mode to Historical Southern Ocean Surface Temperature Trends. <i>Geophysical Research Letters</i> , 2018 , 45, 1086-1097	4.9	21
104	Linking Glacial-Interglacial States to Multiple Equilibria of Climate. <i>Geophysical Research Letters</i> , 2018 , 45, 9160-9170	4.9	14
103	The Climate Response to Multiple Volcanic Eruptions Mediated by Ocean Heat Uptake: Damping Processes and Accumulation Potential. <i>Journal of Climate</i> , 2018 , 31, 8669-8687	4.4	11
102	Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts. <i>Quaternary Science Reviews</i> , 2018 , 180, 214-228	3.9	33
101	The Ice-Ocean Governor: Ice-Ocean Stress Feedback Limits Beaufort Gyre Spin-Up. <i>Geophysical Research Letters</i> , 2018 , 45, 11,293	4.9	30
100	The dependence of the ocean MOC on mesoscale eddy diffusivities: A model study. <i>Ocean Modelling</i> , 2017 , 111, 1-8	3	26
99	Coupling of Trade Winds with Ocean Circulation Damps ITCZ Shifts. <i>Journal of Climate</i> , 2017 , 30, 4395-4411	4.1	79

98	Twentieth century correlations between extratropical SST variability and ITCZ shifts. <i>Geophysical Research Letters</i> , 2017 , 44, 9039-9047	4.9	20
97	Seasonally derived components of the Canada Basin halocline. <i>Geophysical Research Letters</i> , 2017 , 44, 5008-5015	4.9	25
96	Fast and slow responses of Southern Ocean sea surface temperature to SAM in coupled climate models. <i>Climate Dynamics</i> , 2017 , 48, 1595-1609	4.2	69
95	Observational Inferences of Lateral Eddy Diffusivity in the Halocline of the Beaufort Gyre. <i>Geophysical Research Letters</i> , 2017 , 44, 12,331	4.9	30
94	Climate response functions for the Arctic Ocean: a proposed coordinated modelling experiment. <i>Geoscientific Model Development</i> , 2017 , 10, 2833-2848	6.3	18
93	Mesoscale modulation of air-sea CO ₂ flux in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 6635-6649	3.3	13
92	Southern Ocean warming delayed by circumpolar upwelling and equatorward transport. <i>Nature Geoscience</i> , 2016 , 9, 549-554	18.3	264
91	Circulation and Stirring in the Southeast Pacific Ocean and the Scotia Sea Sectors of the Antarctic Circumpolar Current. <i>Journal of Physical Oceanography</i> , 2016 , 46, 2005-2027	2.4	18
90	Source waters for the highly productive Patagonian shelf in the southwestern Atlantic. <i>Journal of Marine Systems</i> , 2016 , 158, 120-128	2.7	20
89	Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review. <i>Reviews of Geophysics</i> , 2016 , 54, 5-63	23.1	317
88	Anomalous chlorofluorocarbon uptake by mesoscale eddies in the Drake Passage region. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 1065-1078	3.3	10
87	Why is there net surface heating over the Antarctic Circumpolar Current?. <i>Ocean Dynamics</i> , 2015 , 65, 751-760	2.3	3
86	The ocean's role in the transient response of climate to abrupt greenhouse gas forcing. <i>Climate Dynamics</i> , 2015 , 44, 2287-2299	4.2	114
85	Freshwater transport in the coupled ocean-atmosphere system: a passive ocean. <i>Ocean Dynamics</i> , 2015 , 65, 1029-1036	2.3	4
84	Antarctic Ocean and Sea Ice Response to Ozone Depletion: A Two-Time-Scale Problem. <i>Journal of Climate</i> , 2015 , 28, 1206-1226	4.4	139
83	Impact of the Atlantic meridional overturning circulation on ocean heat storage and transient climate change. <i>Geophysical Research Letters</i> , 2014 , 41, 2108-2116	4.9	98
82	Rationalizing the Spatial Distribution of Mesoscale Eddy Diffusivity in Terms of Mixing Length Theory. <i>Journal of Physical Oceanography</i> , 2014 , 44, 1523-1540	2.4	31
81	Direct Estimate of Lateral Eddy Diffusivity Upstream of Drake Passage. <i>Journal of Physical Oceanography</i> , 2014 , 44, 2593-2616	2.4	52

80	Climate at high-obliquity. <i>Icarus</i> , 2014 , 243, 236-248	3.8	61
79	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> , 2014 , 390, 69-79	5.3	187
78	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> , 2014 , 372, 20130040	3	97
77	The Interannual Variability of Tropical Precipitation and Interhemispheric Energy Transport. <i>Journal of Climate</i> , 2014 , 27, 3377-3392	4.4	51
76	Have Aerosols Caused the Observed Atlantic Multidecadal Variability?. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 1135-1144	2.1	240
75	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> , 2013 , 26, 3597-3618	4.4	237
74	Ocean Basin Geometry and the Salinification of the Atlantic Ocean. <i>Journal of Climate</i> , 2013 , 26, 6163-6184	4.4	29
73	On the Relationship between Decadal Buoyancy Anomalies and Variability of the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2012 , 25, 8009-8030	4.4	36
72	Controlling spurious diapycnal mixing in eddy-resolving height-coordinate ocean models: Insights from virtual deliberate tracer release experiments. <i>Ocean Modelling</i> , 2012 , 45-46, 14-26	3	45
71	Closure of the meridional overturning circulation through Southern Ocean upwelling. <i>Nature Geoscience</i> , 2012 , 5, 171-180	18.3	568
70	Exploring Mechanisms of Variability and Predictability of Atlantic Meridional Overturning Circulation in Two Coupled Climate Models. <i>Journal of Climate</i> , 2012 , 25, 4067-4080	4.4	41
69	Super-parameterization in ocean modeling: Application to deep convection. <i>Ocean Modelling</i> , 2011 , 36, 90-101	3	34
68	Scales, Growth Rates, and Spectral Fluxes of Baroclinic Instability in the Ocean. <i>Journal of Physical Oceanography</i> , 2011 , 41, 1057-1076	2.4	141
67	Climate Determinism Revisited: Multiple Equilibria in a Complex Climate Model. <i>Journal of Climate</i> , 2011 , 24, 992-1012	4.4	74
66	The Dependence of Southern Ocean Meridional Overturning on Wind Stress. <i>Journal of Physical Oceanography</i> , 2011 , 41, 2261-2278	2.4	111
65	Localization of Deep Water Formation: Role of Atmospheric Moisture Transport and Geometrical Constraints on Ocean Circulation. <i>Journal of Climate</i> , 2010 , 23, 1456-1476	4.4	65
64	Enhancement of Mesoscale Eddy Stirring at Steering Levels in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2010 , 40, 170-184	2.4	113
63	Evidence for Enhanced Eddy Mixing at Middepth in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2009 , 39, 50-69	2.4	98

62	Explorations of Atmosphere-Ocean Ice Climates on an Aquaplanet and Their Meridional Energy Transports. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 1593-1611	2.1	80
61	Ocean Heat Transport, Sea Ice, and Multiple Climate States: Insights from Energy Balance Models. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 2828-2843	2.1	49
60	Understanding the Regional Variability of Eddy Diffusivity in the Pacific Sector of the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2009 , 39, 2011-2023	2.4	41
59	Robustness of an Effective Diffusivity Diagnostic in Oceanic Flows. <i>Journal of Physical Oceanography</i> , 2009 , 39, 1993-2009	2.4	31
58	Sea ice-ocean coupling using a rescaled vertical coordinate z^* . <i>Ocean Modelling</i> , 2008 , 24, 1-14	3	64
57	Control of Lower-Limb Overturning Circulation in the Southern Ocean by Diapycnal Mixing and Mesoscale Eddy Transfer. <i>Journal of Physical Oceanography</i> , 2008 , 38, 2832-2845	2.4	56
56	Eddy Modulation of Air-Sea Interaction and Convection. <i>Journal of Physical Oceanography</i> , 2008 , 38, 65-83	2.4	23
55	Mean Climate and Variability of the Atmosphere and Ocean on an Aquaplanet. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 4270-4286	2.1	50
54	Effects of vertical variations of thickness diffusivity in an ocean general circulation model. <i>Ocean Modelling</i> , 2007 , 18, 122-141	3	101
53	Planet-in-a-Bottle: A Numerical Fluid-Laboratory System. <i>Lecture Notes in Computer Science</i> , 2007 , 1163-1170	3	170
52	A model of the upper branch of the meridional overturning of the southern ocean. <i>Progress in Oceanography</i> , 2006 , 70, 331-345	3.8	41
51	The Antarctic Circumpolar Current in Three Dimensions. <i>Journal of Physical Oceanography</i> , 2006 , 36, 651-669	2.4	20
50	The Partitioning of Poleward Heat Transport between the Atmosphere and Ocean. <i>Journals of the Atmospheric Sciences</i> , 2006 , 63, 1498-1511	2.1	92
49	Estimates and Implications of Surface Eddy Diffusivity in the Southern Ocean Derived from Tracer Transport. <i>Journal of Physical Oceanography</i> , 2006 , 36, 1806-1821	2.4	185
48	Transformed Eulerian-Mean Theory. Part II: Potential Vorticity Homogenization and the Equilibrium of a Wind- and Buoyancy-Driven Zonal Flow. <i>Journal of Physical Oceanography</i> , 2005 , 35, 175-187	2.4	27
47	Impact of Anomalous Ocean Heat Transport on the North Atlantic Oscillation. <i>Journal of Climate</i> , 2005 , 18, 4955-4969	4.4	10
46	Estimating Eddy Stresses by Fitting Dynamics to Observations Using a Residual-Mean Ocean Circulation Model and Its Adjoint. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1891-1910	2.4	133
45	Atmosphere-Ocean Modeling Exploiting Fluid Isomorphisms. <i>Monthly Weather Review</i> , 2004 , 132, 2882-2894	2.4	52

44	Evaluating carbon sequestration efficiency in an ocean circulation model by adjoint sensitivity analysis. <i>Journal of Geophysical Research</i> , 2004 , 109,		23
43	What controls the uptake of transient tracers in the Southern Ocean?. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	39
42	Mechanisms of air-sea CO ₂ flux variability in the equatorial Pacific and the North Atlantic. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	114
41	Hydrothermal plume dynamics on Europa: Implications for chaos formation. <i>Journal of Geophysical Research</i> , 2004 , 109,		49
40	Conservation of properties in a free-surface model. <i>Ocean Modelling</i> , 2004 , 6, 221-244	3	69
39	A Laboratory Model of Thermocline Depth and Exchange Fluxes across Circumpolar Fronts*. <i>Journal of Physical Oceanography</i> , 2004 , 34, 656-667	2.4	17
38	Implementation of an Atmosphere-Ocean General Circulation Model on the Expanded Spherical Cube. <i>Monthly Weather Review</i> , 2004 , 132, 2845-2863	2.4	213
37	Residual-Mean Solutions for the Antarctic Circumpolar Current and Its Associated Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2003 , 33, 2341-2354	2.4	305
36	The Role of Neutral Singular Vectors in Midlatitude Air-Sea Coupling. <i>Journal of Climate</i> , 2003 , 16, 88-102.	4.4	7
35	Equilibration of a Warm Pumped Lens on a β -plane. <i>Journal of Physical Oceanography</i> , 2003 , 33, 885-899	2.4	8
34	Can Eddies Set Ocean Stratification?. <i>Journal of Physical Oceanography</i> , 2002 , 32, 26-38	2.4	63
33	Constructing the Residual Circulation of the ACC from Observations. <i>Journal of Physical Oceanography</i> , 2002 , 32, 3315-3327	2.4	138
32	The Role of Eddy Transfer in Setting the Stratification and Transport of a Circumpolar Current. <i>Journal of Physical Oceanography</i> , 2002 , 32, 39-54	2.4	112
31	Mechanisms of Buoyancy Transport through Mixed Layers and Statistical Signatures from Isobaric Floats. <i>Journal of Physical Oceanography</i> , 2002 , 32, 545-557	2.4	2
30	A Statistical Theory for the Batchiness of Open-Ocean Deep Convection: The Effect of Preconditioning. <i>Journal of Physical Oceanography</i> , 2002 , 32, 599-626	2.4	13
29	Testing theories of the vertical stratification of the ACC against observations. <i>Dynamics of Atmospheres and Oceans</i> , 2002 , 36, 233-246	1.9	25
28	Mechanisms of Thermohaline Mode Switching with Application to Warm Equable Climates. <i>Journal of Climate</i> , 2002 , 15, 2056-2072	4.4	9
27	Using Neutral Singular Vectors to Study Low-Frequency Atmospheric Variability. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 3206-3222	2.1	8

26	A Study of the Interaction of the North Atlantic Oscillation with Ocean Circulation. <i>Journal of Climate</i> , 2001 , 14, 1399-1421	4.4	280
25	Observations of atmosphere-ocean coupling in the North Atlantic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001 , 127, 1893-1916	6.4	87
24	North Atlantic climate variability: phenomena, impacts and mechanisms. <i>International Journal of Climatology</i> , 2001 , 21, 1863-1898	3.5	764
23	Interannual variability of phytoplankton abundances in the North Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 48, 2323-2344	2.3	107
22	Representation of Eddies in Primitive Equation Models by a PV Flux. <i>Journal of Physical Oceanography</i> , 2000 , 30, 2481-2503	2.4	40
21	Open-ocean convection: Observations, theory, and models. <i>Reviews of Geophysics</i> , 1999 , 37, 1-64	23.1	788
20	Efficient ocean modeling using non-hydrostatic algorithms. <i>Journal of Marine Systems</i> , 1998 , 18, 115-134	2.7	32
19	A Comparison of Implicitly Parallel Multithreaded and Data-Parallel Implementations of an Ocean Model. <i>Journal of Parallel and Distributed Computing</i> , 1998 , 48, 1-51	4.4	3
18	The influence of the ambient flow on the spreading of convected water masses. <i>Journal of Marine Research</i> , 1998 , 56, 107-139	1.5	24
17	Gravitational, Symmetric, and Baroclinic Instability of the Ocean Mixed Layer. <i>Journal of Physical Oceanography</i> , 1998 , 28, 634-658	2.4	208
16	Representation of Topography by Shaved Cells in a Height Coordinate Ocean Model. <i>Monthly Weather Review</i> , 1997 , 125, 2293-2315	2.4	445
15	Specification of Eddy Transfer Coefficients in Coarse-Resolution Ocean Circulation Models*. <i>Journal of Physical Oceanography</i> , 1997 , 27, 381-402	2.4	377
14	Restratification after Deep Convection. <i>Journal of Physical Oceanography</i> , 1997 , 27, 2276-2287	2.4	76
13	A finite-volume, incompressible Navier Stokes model for studies of the ocean on parallel computers. <i>Journal of Geophysical Research</i> , 1997 , 102, 5753-5766		1584
12	Hydrostatic, quasi-hydrostatic, and nonhydrostatic ocean modeling. <i>Journal of Geophysical Research</i> , 1997 , 102, 5733-5752		908
11	Representation of convective plumes by vertical adjustment. <i>Journal of Geophysical Research</i> , 1996 , 101, 18175-18182		61
10	Dynamics of Isolated Convective Regions in the Ocean. <i>Journal of Physical Oceanography</i> , 1996 , 26, 1721-1734	1.7	152
9	The growth of convective plumes at seafloor hot springs. <i>Journal of Marine Research</i> , 1995 , 53, 1025-1057	1.5	33

8	Regimes and scaling laws for rotating deep convection in the ocean. <i>Dynamics of Atmospheres and Oceans</i> , 1995 , 21, 227-256	1.9	32
7	Integral Effects of Deep Convection. <i>Journal of Physical Oceanography</i> , 1995 , 25, 855-872	2.4	133
6	Laboratory and Numerical Experiments in Oceanic Convection 1994 , 173-201		7
5	Convection with Rotation in a Neutral Ocean: A Study of Open-Ocean Deep Convection. <i>Journal of Physical Oceanography</i> , 1993 , 23, 1009-1039	2.4	230
4	A Heton Model of the Spreading Phase of Open-Ocean Deep Convection. <i>Journal of Physical Oceanography</i> , 1993 , 23, 1040-1056	2.4	91
3	Toward a Dynamical Understanding of Planetary-Scale Flow Regimes. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 1792-1818	2.1	220
2	Potential Vorticity Constraints on the Dynamics and Hydrography of the Southern Ocean. <i>Journal of Physical Oceanography</i> , 1993 , 23, 465-487	2.4	82
1	A Note on Rotational and Divergent Eddy Fluxes. <i>Journal of Physical Oceanography</i> , 1981 , 11, 1677-1680	2.4	116