

A Mcc Hogg

List of Publications by Year in descending order

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126
papers

3,684
citations

126907

33
h-index

155660

55
g-index

158
all docs

158
docs citations

158
times ranked

3658
citing authors

#	ARTICLE	IF	CITATIONS
1	Circumpolar response of Southern Ocean eddy activity to a change in the Southern Annular Mode. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	277
2	Antarctica's ecological isolation will be broken by storm-driven dispersal and warming. <i>Nature Climate Change</i> , 2018, 8, 704-708.	18.8	220
3	Rapid subsurface warming and circulation changes of Antarctic coastal waters by poleward shifting winds. <i>Geophysical Research Letters</i> , 2014, 41, 4601-4610.	4.0	165
4	On the Relationship between Southern Ocean Overturning and ACC Transport. <i>Journal of Physical Oceanography</i> , 2013, 43, 140-148.	1.7	123
5	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. <i>Reviews of Geophysics</i> , 2011, 49, .	23.0	121
6	Recent trends in the Southern Ocean eddy field. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 257-267.	2.6	120
7	Sensitivity of the Overturning Circulation in the Southern Ocean to Decadal Changes in Wind Forcing. <i>Journal of Climate</i> , 2012, 25, 99-110.	3.2	115
8	Localized rapid warming of West Antarctic subsurface waters by remote winds. <i>Nature Climate Change</i> , 2017, 7, 595-603.	18.8	91
9	ACCESS-OM2 v1.0: a global ocean-sea ice model at three resolutions. <i>Geoscientific Model Development</i> , 2020, 13, 401-442.	3.6	91
10	Available Potential Energy and Irreversible Mixing in the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2009, 39, 3130-3146.	1.7	85
11	Global changes in oceanic mesoscale currents over the satellite altimetry record. <i>Nature Climate Change</i> , 2021, 11, 397-403.	18.8	80
12	Hydraulics and mixing in controlled exchange flows. <i>Journal of Geophysical Research</i> , 2001, 106, 959-972.	3.3	72
13	Vertical resolution of baroclinic modes in global ocean models. <i>Ocean Modelling</i> , 2017, 113, 50-65.	2.4	71
14	Warm Circumpolar Deep Water transport toward Antarctica driven by local dense water export in canyons. <i>Science Advances</i> , 2020, 6, eaav2516.	10.3	68
15	The Kelvin-Helmholtz to Holmboe instability transition in stratified exchange flows. <i>Journal of Fluid Mechanics</i> , 2003, 477, .	3.4	64
16	Vertical transport in the ocean due to sub-mesoscale structures: Impacts in the Kerguelen region. <i>Ocean Modelling</i> , 2014, 80, 10-23.	2.4	62
17	Topographic influence on submesoscale dynamics in the Southern Ocean. <i>Geophysical Research Letters</i> , 2015, 42, 1139-1147.	4.0	61
18	Southern Ocean Circulation and Eddy Compensation in CMIP5 Models. <i>Journal of Climate</i> , 2013, 26, 7198-7220.	3.2	60

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19	An Antarctic Circumpolar Current driven by surface buoyancy forcing. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	55
20	The role of vertical eddy flux in Southern Ocean heat uptake. <i>Geophysical Research Letters</i> , 2013, 40, 5445-5450.	4.0	54
21	Thermal Responses to Antarctic Ice Shelf Melt in an Eddy-Rich Global Oceanâ€œSea Ice Model. <i>Journal of Climate</i> , 2020, 33, 6599-6620.	3.2	53
22	Climateâ€œdriven changes to ocean circulation and their inferred impacts on marine dispersal patterns. <i>Global Ecology and Biogeography</i> , 2016, 25, 923-939.	5.8	49
23	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000663.	23.0	49
24	Topographic inviscid dissipation of balanced flow. <i>Ocean Modelling</i> , 2010, 32, 1-13.	2.4	47
25	An Analytical Model of the Response of the Meridional Overturning Circulation to Changes in Wind and Buoyancy Forcing. <i>Journal of Physical Oceanography</i> , 2012, 42, 1270-1287.	1.7	45
26	Sea level changes forced by Southern Ocean winds. <i>Geophysical Research Letters</i> , 2013, 40, 5710-5715.	4.0	41
27	Sensitivity of Marine Heatwave Metrics to Ocean Model Resolution. <i>Geophysical Research Letters</i> , 2019, 46, 14604-14612.	4.0	41
28	JRA55-do-based repeat year forcing datasets for driving oceanâ€œsea-ice models. <i>Ocean Modelling</i> , 2020, 147, 101557.	2.4	40
29	Spontaneous Surface Generation and Interior Amplification of Internal Waves in a Regional-Scale Ocean Model. <i>Journal of Physical Oceanography</i> , 2017, 47, 811-826.	1.7	39
30	Linear internal waves and the control of stratified exchange flows. <i>Journal of Fluid Mechanics</i> , 2001, 447, 357-375.	3.4	38
31	Sensitivity of the Southern Ocean overturning circulation to surface buoyancy forcing. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	38
32	SEASTAR: A Mission to Study Ocean Submesoscale Dynamics and Small-Scale Atmosphere-Ocean Processes in Coastal, Shelf and Polar Seas. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	37
33	Eddy response to Southern Ocean climate modes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
34	The wineglass effect shapes particle export to the deep ocean in mesoscale eddies. <i>Geophysical Research Letters</i> , 2016, 43, 9791-9800.	4.0	34
35	The Dynamics of Southern Ocean Storm Tracks. <i>Journal of Physical Oceanography</i> , 2015, 45, 884-903.	1.7	33
36	The Energetics of Southern Ocean Upwelling. <i>Journal of Physical Oceanography</i> , 2017, 47, 135-153.	1.7	31

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37	Establishment of momentum balance by form stress in a wind-driven channel. <i>Ocean Modelling</i> , 2011, 40, 133-146.	2.4	30
38	Energy Loss from Transient Eddies due to Lee Wave Generation in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2018, 48, 2867-2885.	1.7	30
39	Sensitivity of Antarctic Bottom Water to Changes in Surface Buoyancy Fluxes. <i>Journal of Climate</i> , 2016, 29, 313-330.	3.2	29
40	How Does Antarctic Bottom Water Cross the Southern Ocean?. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	28
41	Mechanical power input from buoyancy and wind to the circulation in an ocean model. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	25
42	The Injection of Zonal Momentum by Buoyancy Forcing in a Southern Ocean Model. <i>Journal of Physical Oceanography</i> , 2015, 45, 259-271.	1.7	24
43	Sensitivity of abyssal water masses to overflow parameterisations. <i>Ocean Modelling</i> , 2015, 89, 84-103.	2.4	23
44	Jet-Topography Interactions Affect Energy Pathways to the Deep Southern Ocean. <i>Journal of Physical Oceanography</i> , 2017, 47, 1799-1816.	1.7	23
45	Kinetic Energy of Eddy-Like Features From Sea Surface Altimetry. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3090-3105.	3.8	23
46	Response of Southern Ocean Ventilation to Changes in Midlatitude Westerly Winds. <i>Journal of Climate</i> , 2019, 32, 5345-5361.	3.2	23
47	Kelvin wave hydraulic control induced by interactions between vortices and topography. <i>Journal of Fluid Mechanics</i> , 2011, 687, 194-208.	3.4	22
48	Change in Dense Shelf Water and Adipic Land Bottom Water Precipitated by Iceberg Calving. <i>Geophysical Research Letters</i> , 2018, 45, 2380-2387.	4.0	22
49	Glacial cycles and carbon dioxide: A conceptual model. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	21
50	Reshaping the Antarctic Circumpolar Current via Antarctic Bottom Water Export. <i>Journal of Physical Oceanography</i> , 2017, 47, 2577-2601.	1.7	21
51	Ventilation of the Southern Ocean Pycnocline. <i>Annual Review of Marine Science</i> , 2022, 14, 405-430.	11.6	21
52	Controls on circulation, cross-shelf exchange, and dense water formation in an Antarctic polynya. <i>Geophysical Research Letters</i> , 2016, 43, 7089-7096.	4.0	20
53	Mixing efficiency in controlled exchange flows. <i>Journal of Fluid Mechanics</i> , 2008, 600, 235-244.	3.4	19
54	Control of the glacial carbon budget by topographically induced mixing. <i>Geophysical Research Letters</i> , 2014, 41, 4277-4284.	4.0	19

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55	The viscous lee wave problem and its implications for ocean modelling. <i>Ocean Modelling</i> , 2017, 113, 22-29.	2.4	19
56	Quantifying the influence of sub-mesoscale dynamics on the supply of iron to Southern Ocean phytoplankton blooms. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 115, 199-209.	1.4	18
57	Experiments with mixing in stratified flow over a topographic ridge. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6961-6977.	2.6	18
58	On the Momentum Flux of Internal Tides. <i>Journal of Physical Oceanography</i> , 2019, 49, 993-1013.	1.7	18
59	Open boundary conditions for nonlinear channel flow. <i>Ocean Modelling</i> , 2008, 24, 108-121.	2.4	17
60	Submesoscale generation by boundaries. <i>Journal of Marine Research</i> , 2011, 69, 501-522.	0.3	17
61	Response of Southern Ocean Convection and Abyssal Overturning to Surface Buoyancy Perturbations. <i>Journal of Climate</i> , 2015, 28, 4263-4278.	3.2	17
62	Vigorous deep-sea currents cause global anomaly in sediment accumulation in the Southern Ocean. <i>Geology</i> , 2016, 44, 663-666.	4.4	16
63	The Life Cycle of Spontaneously Generated Internal Waves. <i>Journal of Physical Oceanography</i> , 2018, 48, 343-359.	1.7	16
64	Convection Enhances Mixing in the Southern Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 4198-4207.	4.0	15
65	Eddy Saturation of the Southern Ocean: A Baroclinic Versus Barotropic Perspective. <i>Geophysical Research Letters</i> , 2019, 46, 12202-12212.	4.0	15
66	Ocean Gyres Driven by Surface Buoyancy Forcing. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088539.	4.0	15
67	Eddy Cancellation of the Ekman Cell in Subtropical Gyres. <i>Journal of Physical Oceanography</i> , 2016, 46, 2995-3010.	1.7	14
68	Effects of topography on the cumulative mixing efficiency in exchange flows. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	13
69	The Energetics of a Collapsing Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2013, 43, 1512-1524.	1.7	13
70	Interhemispheric asymmetry in transient global warming: The role of Drake Passage. <i>Geophysical Research Letters</i> , 2013, 40, 1587-1593.	4.0	13
71	The Geography of Numerical Mixing in a Suite of Global Ocean Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002333.	3.8	13
72	Does the sensitivity of Southern Ocean circulation depend upon bathymetric details?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130050.	3.4	12

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73	Attribution of horizontal and vertical contributions to spurious mixing in an Arbitrary Lagrangianâ€Eulerian ocean model. <i>Ocean Modelling</i> , 2017, 119, 45-56.	2.4	12
74	Effect of topographic barriers on the rates of available potential energy conversion of the oceans. <i>Ocean Modelling</i> , 2014, 76, 31-42.	2.4	11
75	Seasonal and Interannual Variability of the Subtropical Front in the New Zealand Region. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016412.	2.6	11
76	On Cabbeling and Thermobaricity in the Surface Mixed Layer. <i>Journal of Physical Oceanography</i> , 2017, 47, 1775-1787.	1.7	10
77	A New Open Source Implementation of Lagrangian Filtering: A Method to Identify Internal Waves in Highâ€Resolution Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002616.	3.8	10
78	Seasonal and Interannual Variability of the Weddell Gyre From a Highâ€Resolution Global Oceanâ€Sea Ice Simulation During 1958â€2018. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017662.	2.6	10
79	Climatology, Seasonality, and Trends of Spatially Coherent Ocean Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	10
80	On the application of no-slip lateral boundary conditions to â€coarselyâ€™ resolved ocean models. <i>Ocean Modelling</i> , 2011, 39, 411-415.	2.4	9
81	Available potential energy gain from mixing due to the nonlinearity of the equation of state in a global ocean model. <i>Geophysical Research Letters</i> , 2013, 40, 2224-2228.	4.0	9
82	The Impact of Turbulence and Convection on Transport in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4208-4221.	2.6	9
83	Spatial and Subannual Variability of the Antarctic Slope Current in an Eddyng Oceanâ€Sea Ice Model. <i>Journal of Physical Oceanography</i> , 2022, 52, 347-361.	1.7	9
84	Southern Ocean heat and momentum uptake are sensitive to the vertical resolution at the ocean surface. <i>Ocean Modelling</i> , 2019, 143, 101456.	2.4	8
85	Unidirectional stratified flow through a non-rectangular channel. <i>Journal of Fluid Mechanics</i> , 2004, 509, 83-92.	3.4	7
86	Intrinsic Oceanic Decadal Variability of Upper-Ocean Heat Content. <i>Journal of Climate</i> , 2021, 34, 6175-6189.	3.2	7
87	The Transient Response of Southern Ocean Circulation to Geothermal Heating in a Global Climate Model. <i>Journal of Climate</i> , 2016, 29, 5689-5708.	3.2	6
88	Understanding variability of the Southern Ocean overturning circulation in CORE-II models. <i>Ocean Modelling</i> , 2018, 123, 98-109.	2.4	6
89	Frequency-Domain Analysis of the Energy Budget in an Idealized Coupled Oceanâ€Atmosphere Model. <i>Journal of Climate</i> , 2020, 33, 707-726.	3.2	6
90	Multidecadal variability in the climate system: phenomena and mechanisms. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	6

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91	Continuously stratified exchange flow through a contraction in a channel. <i>Journal of Fluid Mechanics</i> , 2004, 499, 257-276.	3.4	5
92	Tidal modulation of two-layer hydraulic exchange flows. <i>Ocean Science</i> , 2007, 3, 179-188.	3.4	5
93	Jet Jumping: Low-Frequency Variability in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2013, 43, 990-1003.	1.7	5
94	Energetics of Multidecadal Atlantic Ocean Variability. <i>Journal of Climate</i> , 2014, 27, 7874-7889.	3.2	5
95	The [simple carbon project] model v1.0. <i>Geoscientific Model Development</i> , 2019, 12, 1541-1572.	3.6	5
96	The impact of lee waves on the Southern Ocean circulation. <i>Journal of Physical Oceanography</i> , 2021, , .	1.7	5
97	High-Frequency Fluctuations in Antarctic Bottom Water Transport Driven by Southern Ocean Winds. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094569.	4.0	5
98	The Drag on the Barotropic Tide due to the Generation of Baroclinic Motion. <i>Journal of Physical Oceanography</i> , 2020, 50, 3467-3481.	1.7	5
99	Baroclinic Control of Southern Ocean Eddy Upwelling Near Topography. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
100	Circumpolar Variations in the Chaotic Nature of Southern Ocean Eddy Dynamics. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	5
101	Topographic Hotspots of Southern Ocean Eddy Upwelling. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	5
102	Shear flow and viscosity in single-layer hydraulics. <i>Journal of Fluid Mechanics</i> , 2006, 548, 431.	3.4	4
103	A coupled ocean-atmosphere laboratory model of the Antarctic Circumpolar Current. <i>Ocean Modelling</i> , 2010, 35, 54-66.	2.4	4
104	Adjustment of the Meridional Overturning Circulation and Its Dependence on Depth of Mixing. <i>Journal of Physical Oceanography</i> , 2016, 46, 731-747.	1.7	4
105	Asymmetric Internal Tide Generation in the Presence of a Steady Flow. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016503.	2.6	4
106	Transient Response of the Southern Ocean to Idealized Wind and Thermal Forcing across Different Model Resolutions. <i>Journal of Climate</i> , 2021, 34, 5477-5496.	3.2	4
107	The Dynamics of Mixed Layer Deepening during Open-Ocean Convection. <i>Journal of Physical Oceanography</i> , 2020, 50, 1625-1641.	1.7	4
108	Ice Algae Model Intercomparison Project phase 2 (IAMIP2). <i>Geoscientific Model Development</i> , 2021, 14, 6847-6861.	3.6	4

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109	Interhemispheric Asymmetry of Warming in an Eddy-Permitting Coupled Sector Model. Journal of Climate, 2015, 28, 7385-7406.	3.2	3
110	Dissipating and reflecting internal waves. Journal of Physical Oceanography, 2021, , .	1.7	3
111	Drivers of Atmospheric and Oceanic Surface Temperature Variance: A Frequency Domain Approach. Journal of Climate, 2021, 34, 3975-3990.	3.2	3
112	Response of the Southern Ocean Overturning Circulation to Extreme Southern Annular Mode Conditions. Geophysical Research Letters, 2020, 47, e2020GL091103.	4.0	3
113	On the mechanisms of late 20th century seaâ€œsurface temperature trends over the Antarctic Circumpolar Current. Journal of Geophysical Research, 2011, 116, .	3.3	2
114	On Energy Cascades in General Flows: A Lagrangian Application. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002090.	3.8	2
115	Sequential changes in ocean circulation and biological export productivity during the last glacialâ€œinterglacial cycle: a modelâ€œdata study. Climate of the Past, 2021, 17, 171-201.	3.4	2
116	Interbasin Differences in Ocean Ventilation in Response to Variations in the Southern Annular Mode. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016540.	2.6	2
117	A simple technique for developing and visualising stratified fluid dynamics: the hot double-bucket. Experiments in Fluids, 2021, 62, 1.	2.4	2
118	The Ekman Streamfunction and the Eulerian and Residual Overturning Circulations of the Southern Ocean. Geophysical Research Letters, 2021, 48, e2021GL093438.	4.0	2
119	LOW FREQUENCY OCEAN VARIABILITY: FEEDBACKS BETWEEN EDDIES AND THE MEAN FLOW. , 2007, , .		2
120	The Impact of Abyssal Hill Roughness on the Benthic Tide. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002376.	3.8	1
121	Viscous effects in two-layer, unidirectional hydraulic flow. Journal of Fluid Mechanics, 2010, 644, 371-394.	3.4	0
122	Appreciation of 2017 GRL Peer Reviewers. Geophysical Research Letters, 2018, 45, 4494-4528.	4.0	0
123	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	4.0	0
124	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	4.0	0
125	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	4.0	0
126	Super Residual Circulation: a new perspective on ocean vertical heat transport. Journal of Physical Oceanography, 2021, , .	1.7	0