

Stephen Griffies

List of Publications by Citations

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159
papers

14,758
citations

62
h-index

120
g-index

190
ext. papers

16,736
ext. citations

5.3
avg, IF

6.18
L-index

#	Paper	IF	Citations
159	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006 , 19, 643-674	4.4	1313
158	GFDL's ESM2 Global Coupled Climate Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. <i>Journal of Climate</i> , 2012 , 25, 6646-6665	4.4	791
157	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. <i>Journal of Climate</i> , 2011 , 24, 3484-3519	4.4	768
156	Coordinated Ocean-ice Reference Experiments (COREs). <i>Ocean Modelling</i> , 2009 , 26, 1-46	3	498
155	GFDL's ESM2 Global Coupled Climate Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. <i>Journal of Climate</i> , 2013 , 26, 2247-2267	4.4	460
154	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. <i>Journal of Climate</i> , 2012 , 25, 2755-2781	4.4	395
153	The Gent-McWilliams Skew Flux. <i>Journal of Physical Oceanography</i> , 1998 , 28, 831-841	2.4	328
152	Biharmonic Friction with a Smagorinsky-Like Viscosity for Use in Large-Scale Eddy-Permitting Ocean Models. <i>Monthly Weather Review</i> , 2000 , 128, 2935-2946	2.4	312
151	The ACCESS coupled model: description, control climate and evaluation. <i>Australian Meteorological Magazine</i> , 2013 , 63, 41-64		303
150	Formulation of an ocean model for global climate simulations. <i>Ocean Science</i> , 2005 , 1, 45-79	4	297
149	Developments in ocean climate modelling. <i>Ocean Modelling</i> , 2000 , 2, 123-192	3	274
148	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. <i>Ocean Modelling</i> , 2014 , 73, 76-107	3	266
147	Evaluation of Climate Models		264
146	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. <i>Journal of Climate</i> , 2006 , 19, 675-697	4.4	247
145	Enhanced warming of the Northwest Atlantic Ocean under climate change. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 118-132	3.3	246
144	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. <i>Journal of Climate</i> , 2011 , 24, 3520-3544	4.4	236
143	On the use of IPCC-class models to assess the impact of climate on Living Marine Resources. <i>Progress in Oceanography</i> , 2011 , 88, 1-27	3.8	227

142	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. <i>Journal of Climate</i> , 2015 , 28, 952-977	4.4	226
141	Parameterization of mixed layer eddies. III: Implementation and impact in global ocean climate simulations. <i>Ocean Modelling</i> , 2011 , 39, 61-78	3	213
140	Spurious Diapycnal Mixing Associated with Advection in az-Coordinate Ocean Model. <i>Monthly Weather Review</i> , 2000 , 128, 538-564	2.4	201
139	Isonutral Diffusion in az-Coordinate Ocean Model. <i>Journal of Physical Oceanography</i> , 1998 , 28, 805-830	2.4	191
138	Lagrangian ocean analysis: Fundamentals and practices. <i>Ocean Modelling</i> , 2018 , 121, 49-75	3	190
137	Static domain walls in N = 1 supergravity. <i>Nuclear Physics B</i> , 1992 , 381, 301-328	2.8	186
136	JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do). <i>Ocean Modelling</i> , 2018 , 130, 79-139	3	175
135	Predictability of North Atlantic Multidecadal Climate Variability. <i>Science</i> , 1997 , 275, 181-4	33.3	172
134	Spatial Variability of Sea Level Rise in Twenty-First Century Projections. <i>Journal of Climate</i> , 2010 , 23, 4585-4607	4.4	159
133	The Role of Mesoscale Eddies in the Rectification of the Southern Ocean Response to Climate Change. <i>Journal of Physical Oceanography</i> , 2010 , 40, 1539-1557	2.4	155
132	A Conceptual Framework for Predictability Studies. <i>Journal of Climate</i> , 1999 , 12, 3133-3155	4.4	153
131	A Linear Thermohaline Oscillator Driven by Stochastic Atmospheric Forcing. <i>Journal of Climate</i> , 1995 , 8, 2440-2453	4.4	152
130	Improving Oceanic Overflow Representation in Climate Models: The Gravity Current Entrainment Climate Process Team. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 657-670	6.1	137
129	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. <i>Surveys in Geophysics</i> , 2019 , 40, 1251-1289	7.6	135
128	Impacts of Shortwave Penetration Depth on Large-Scale Ocean Circulation and Heat Transport. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1103-1119	2.4	134
127	A predictability study of simulated North Atlantic multidecadal variability. <i>Climate Dynamics</i> , 1997 , 13, 459-487	4.2	130
126	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016 , 9, 3231-3296	6.3	130
125	Climate Process Team on Internal Wave-Driven Ocean Mixing. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 2429-2454	6.1	128

124	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3691-3727	7.1	128
123	An extreme event of sea-level rise along the Northeast Coast of North America in 2009-2010. <i>Nature Communications</i> , 2015 , 6, 6346	17.4	118
122	Rapid subsurface warming and circulation changes of Antarctic coastal waters by poleward shifting winds. <i>Geophysical Research Letters</i> , 2014 , 41, 4601-4610	4.9	118
121	Connecting Changing Ocean Circulation with Changing Climate. <i>Journal of Climate</i> , 2013 , 26, 2268-2278	4.4	114
120	Challenges to Understanding the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1131-1144	6.1	111
119	Algorithms for Density, Potential Temperature, Conservative Temperature, and the Freezing Temperature of Seawater. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006 , 23, 1709-1728	2	111
118	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. <i>Ocean Modelling</i> , 2016 , 97, 65-90	3	109
117	Change in future climate due to Antarctic meltwater. <i>Nature</i> , 2018 , 564, 53-58	50.4	103
116	Spurious diapycnal mixing and the role of momentum closure. <i>Ocean Modelling</i> , 2012 , 45-46, 37-58	3	100
115	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002015	7.1	97
114	The impact of Greenland melt on local sea levels: a partially coupled analysis of dynamic and static equilibrium effects in idealized water-hosing experiments. <i>Climatic Change</i> , 2010 , 103, 619-625	4.5	92
113	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017 , 10, 2169-2199	6.3	90
112	An assessment of Antarctic Circumpolar Current and Southern Ocean meridional overturning circulation during 1958-2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2015 , 93, 84-120	3	89
111	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3167-3211	7.1	88
110	Spiraling pathways of global deep waters to the surface of the Southern Ocean. <i>Nature Communications</i> , 2017 , 8, 172	17.4	86
109	Physical processes that impact the evolution of global mean sea level in ocean climate models. <i>Ocean Modelling</i> , 2012 , 51, 37-72	3	86
108	A boundary-value problem for the parameterized mesoscale eddy transport. <i>Ocean Modelling</i> , 2010 , 32, 143-156	3	86
107	An assessment of global and regional sea level for years 1993-2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2014 , 78, 35-89	3	85

106	Local and global gravitational aspects of domain wall space-times. <i>Physical Review D</i> , 1993 , 48, 2613-2634	4.9	84
105	The Benefits of Global High Resolution for Climate Simulation: Process Understanding and the Enabling of Stakeholder Decisions at the Regional Scale. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 2341-2359	6.1	81
104	Climate Variability and Radiocarbon in the CM2Mc Earth System Model. <i>Journal of Climate</i> , 2011 , 24, 4230-4254	4.4	76
103	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: investigation of sea-level and ocean climate change in response to CO ₂ forcing. <i>Geoscientific Model Development</i> , 2016 , 9, 3993-4017	6.3	76
102	Tracer Conservation with an Explicit Free Surface Method for Coordinate Ocean Models. <i>Monthly Weather Review</i> , 2001 , 129, 1081-1098	2.4	72
101	Role of Mesoscale Eddies in Cross-Frontal Transport of Heat and Biogeochemical Tracers in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2015 , 45, 3057-3081	2.4	71
100	Different magnitudes of projected subsurface ocean warming around Greenland and Antarctica. <i>Nature Geoscience</i> , 2011 , 4, 524-528	18.3	69
99	Impacts of Parameterized Langmuir Turbulence and Nonbreaking Wave Mixing in Global Climate Simulations. <i>Journal of Climate</i> , 2014 , 27, 4752-4775	4.4	68
98	Has coarse ocean resolution biased simulations of transient climate sensitivity?. <i>Geophysical Research Letters</i> , 2014 , 41, 8522-8529	4.9	68
97	Simulated Global Swell and Wind-Sea Climate and Their Responses to Anthropogenic Climate Change at the End of the Twenty-First Century. <i>Journal of Climate</i> , 2014 , 27, 3516-3536	4.4	62
96	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. <i>Ocean Modelling</i> , 2016 , 100, 141-161	3	61
95	Localized rapid warming of West Antarctic subsurface waters by remote winds. <i>Nature Climate Change</i> , 2017 , 7, 595-603	21.4	61
94	An assessment of Southern Ocean water masses and sea ice during 1988-2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2015 , 94, 67-94	3	59
93	Northern High-Latitude Heat Budget Decomposition and Transient Warming. <i>Journal of Climate</i> , 2013 , 26, 609-621	4.4	59
92	Vertical resolution of baroclinic modes in global ocean models. <i>Ocean Modelling</i> , 2017 , 113, 50-65	3	55
91	Challenges and Prospects in Ocean Circulation Models. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	54
90	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?. <i>Ocean Modelling</i> , 2017 , 120, 120-136	3	53
89	Atlantic multi-decadal oscillation covaries with Agulhas leakage. <i>Nature Communications</i> , 2015 , 6, 10082	17.4	53

88	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. <i>Ocean Modelling</i> , 2016 , 99, 110-132	3	51
87	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. <i>Ocean Modelling</i> , 2016 , 99, 86-109	3	50
86	Preconditioning of the Weddell Sea Polynya by the Ocean Mesoscale and Dense Water Overflows. <i>Journal of Climate</i> , 2017 , 30, 7719-7737	4.4	48
85	Rapid barotropic sea level rise from ice sheet melting. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		47
84	Non-perturbative stability of supergravity and superstring vacua. <i>Nuclear Physics B</i> , 1993 , 389, 3-24	2.8	46
83	ACCESS-OM2 v1.0: a global ocean-ice model at three resolutions. <i>Geoscientific Model Development</i> , 2020 , 13, 401-442	6.3	42
82	Carbon Dioxide and Climate: Perspectives on a Scientific Assessment 2013 , 391-413		41
81	Water Mass Exchange in the Southern Ocean in Coupled Climate Models. <i>Journal of Physical Oceanography</i> , 2011 , 41, 1756-1771	2.4	41
80	Effects in a climate model of slope tapering in neutral physics schemes. <i>Ocean Modelling</i> , 2007 , 16, 1-16	3	41
79	The Atlantic Meridional Overturning Circulation in High-Resolution Models. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015522	3.3	40
78	Fundamentals of Ocean Climate Models 2005 ,		39
77	The KPP Boundary Layer Scheme for the Ocean: Revisiting Its Formulation and Benchmarking One-Dimensional Simulations Relative to LES. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2647-2685	7.1	39
76	Mechanisms of Southern Ocean Heat Uptake and Transport in a Global Eddy Climate Model. <i>Journal of Climate</i> , 2016 , 29, 2059-2075	4.4	37
75	Sea level changes forced by Southern Ocean winds. <i>Geophysical Research Letters</i> , 2013 , 40, 5710-5715	4.9	37
74	Sensitivity of a global ocean model to increased run-off from Greenland. <i>Ocean Modelling</i> , 2006 , 12, 416-435	3	37
73	Rapid mixing and exchange of deep-ocean waters in an abyssal boundary current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13233-13238	11.5	34
72	Comparing Ocean Surface Boundary Vertical Mixing Schemes Including Langmuir Turbulence. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3545-3592	7.1	33
71	The Water Mass Transformation Framework for Ocean Physics and Biogeochemistry. <i>Annual Review of Marine Science</i> , 2019 , 11, 271-305	15.4	33

70	Realistic test cases for limited area ocean modelling. <i>Ocean Modelling</i> , 2011 , 37, 1-34	3	32
69	ACCESS-OM: the ocean and sea-ice core of the ACCESS coupled model. <i>Australian Meteorological Magazine</i> , 2013 , 63, 213-232		32
68	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	29
67	Multidecadal Weakening of Indian Summer Monsoon Circulation Induces an Increasing Northern Indian Ocean Sea Level. <i>Geophysical Research Letters</i> , 2017 , 44, 10,560-10,572	4.9	29
66	Evaluating the Uncertainty Induced by the Virtual Salt Flux Assumption in Climate Simulations and Future Projections. <i>Journal of Climate</i> , 2010 , 23, 80-96	4.4	29
65	Gravitational effects in supersymmetric domain wall backgrounds. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 285, 27-34	4.2	29
64	Evaluation of global ocean-sea-ice model simulations based on the experimental protocols of the Ocean Model Intercomparison Project phase 2 (OMIP-2). <i>Geoscientific Model Development</i> , 2020 , 13, 3643-3708	6.3	29
63	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. <i>Journal of Climate</i> , 2013 , 26, 231-245	4.4	28
62	Sea Level and the Role of Coastal Trapped Waves in Mediating the Influence of the Open Ocean on the Coast. <i>Surveys in Geophysics</i> , 2019 , 40, 1467-1492	7.6	26
61	On Geometrical Aspects of Interior Ocean Mixing. <i>Journal of Physical Oceanography</i> , 2014 , 44, 2164-2175	5.4	26
60	Tropical Cyclone-Induced Thermocline Warming and Its Regional and Global Impacts. <i>Journal of Climate</i> , 2014 , 27, 6978-6999	4.4	25
59	The Deep Ocean Buoyancy Budget and Its Temporal Variability. <i>Journal of Climate</i> , 2014 , 27, 551-573	4.4	25
58	100 Years of Earth System Model Development. <i>Meteorological Monographs</i> , 2019 , 59, 12.1-12.66	5.7	24
57	CO ₂ -Induced Ocean Warming of the Antarctic Continental Shelf in an Eddy Global Climate Model. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 8079-8101	3.3	23
56	Evaluation of ACCESS climate model ocean diagnostics in CMIP5 simulations. <i>Australian Meteorological Magazine</i> , 2013 , 63, 101-119		23
55	North and equatorial Pacific Ocean circulation in the CORE-II hindcast simulations. <i>Ocean Modelling</i> , 2016 , 104, 143-170	3	23
54	On Pacific Subtropical Cell Variability over the Second Half of the Twentieth Century. <i>Journal of Climate</i> , 2014 , 27, 7102-7112	4.4	21
53	Nonextreme and ultraextreme domain walls and their global space-times. <i>Physical Review Letters</i> , 1993 , 71, 670-673	7.4	21

52	Sensitivity of abyssal water masses to overflow parameterisations. <i>Ocean Modelling</i> , 2015 , 89, 84-103	3	20
51	The catalytic role of the beta effect in barotropization processes. <i>Journal of Fluid Mechanics</i> , 2012 , 709, 490-515	3-7	19
50	Cauchy horizons, thermodynamics, and closed timelike curves in planar supersymmetric spaces. <i>Physical Review Letters</i> , 1993 , 70, 1191-1194	7-4	18
49	Identifying Lagrangian coherent vortices in a mesoscale ocean model. <i>Ocean Modelling</i> , 2018 , 130, 15-28	3	14
48	Two skyrmion interaction for the Atiyah-Manton ansatz. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 251, 1-5	4-2	14
47	Improved Simulations of Tropical Pacific Annual-Mean Climate in the GFDL FLOR and HiFLOR Coupled GCMs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 3176-3220	7-1	14
46	Understanding the Equatorial Pacific Cold Tongue Time-Mean Heat Budget. Part I: Diagnostic Framework. <i>Journal of Climate</i> , 2018 , 31, 9965-9985	4-4	12
45	Development of a regional model for the North Indian Ocean. <i>Ocean Modelling</i> , 2014 , 75, 1-19	3	11
44	Impact of climate warming on upper layer of the Bering Sea. <i>Climate Dynamics</i> , 2013 , 40, 327-340	4-2	11
43	A dynamic, embedded Lagrangian model for ocean climate models, Part II: Idealised overflow tests. <i>Ocean Modelling</i> , 2012 , 59-60, 60-76	3	11
42	An assessment of the Indian Ocean mean state and seasonal cycle in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2020 , 145, 101503	3	11
41	Surface winds from atmospheric reanalysis lead to contrasting oceanic forcing and coastal upwelling patterns. <i>Ocean Modelling</i> , 2019 , 133, 79-111	3	11
40	Roles of the Ocean Mesoscale in the Horizontal Supply of Mass, Heat, Carbon, and Nutrients to the Northern Hemisphere Subtropical Gyres. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 7016-7036	3-3	11
39	Lagrangian Timescales of Southern Ocean Upwelling in a Hierarchy of Model Resolutions. <i>Geophysical Research Letters</i> , 2018 , 45, 891-898	4-9	9
38	Formulating the Equations of Ocean Models. <i>Geophysical Monograph Series</i> , 2008 , 281-317	1-1	9
37	Understanding the Equatorial Pacific Cold Tongue Time-Mean Heat Budget. Part II: Evaluation of the GFDL-FLOR Coupled GCM. <i>Journal of Climate</i> , 2018 , 31, 9987-10011	4-4	9
36	Mechanistic Drivers of Reemergence of Anthropogenic Carbon in the Equatorial Pacific. <i>Geophysical Research Letters</i> , 2017 , 44, 9433-9439	4-9	8
35	A Primer on the Vertical Lagrangian-Remap Method in Ocean Models Based on Finite Volume Generalized Vertical Coordinates. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001954	7-1	8

34	A dynamic, embedded Lagrangian model for ocean climate models. Part I: Theory and implementation. <i>Ocean Modelling</i> , 2012 , 59-60, 41-59	3	8
33	Frequency-Domain Analysis of Atmospherically Forced versus Intrinsic Ocean Surface Kinetic Energy Variability in GFDL CM2-O Model Hierarchy. <i>Journal of Climate</i> , 2018 , 31, 1789-1810	4.4	8
32	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
31	Response of Storm-Related Extreme Sea Level along the U.S. Atlantic Coast to Combined Weather and Climate Forcing. <i>Journal of Climate</i> , 2020 , 33, 3745-3769	4.4	7
30	Some Ocean Model Fundamentals 2006 , 19-73		7
29	Kinetic energy transfers between mesoscale and submesoscale motions in the open ocean's upper layers. <i>Journal of Physical Oceanography</i> , 2021 ,	2.4	7
28	What causes the spread of model projections of ocean dynamic sea-level change in response to greenhouse gas forcing?. <i>Climate Dynamics</i> , 2021 , 56, 155-187	4.2	7
27	Role of Ocean Model Formulation in Climate Response Uncertainty. <i>Journal of Climate</i> , 2018 , 31, 9313-9333	4.3	7
26	The Transient Response of Southern Ocean Circulation to Geothermal Heating in a Global Climate Model. <i>Journal of Climate</i> , 2016 , 29, 5689-5708	4.4	6
25	VENM: An Algorithm to Accurately Calculate Neutral Slopes and Gradients. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 1917-1939	7.1	6
24	Comment on Tailleux, R. Neutrality versus Materiality: A Thermodynamic Theory of Neutral Surfaces. <i>Fluids</i> 2016, 1, 32. <i>Fluids</i> , 2017 , 2, 19	1.6	5
23	Ocean Circulation Models and Modeling. <i>International Geophysics</i> , 2013 , 521-551		5
22	On the Superposition of Mean Advective and Eddy-Induced Transports in Global Ocean Heat and Salt Budgets. <i>Journal of Climate</i> , 2020 , 33, 1121-1140	4.4	5
21	The Geography of Numerical Mixing in a Suite of Global Ocean Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002333	7.1	5
20	Relating the Diffusive Salt Flux just below the Ocean Surface to Boundary Freshwater and Salt Fluxes. <i>Journal of Physical Oceanography</i> , 2019 , 49, 2365-2376	2.4	4
19	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP)		4
18	Experimental and diagnostic protocol for the physical component of the CMIP6 Ocean Model Intercomparison Project (OMIP)		4
17	Evaluation of global ocean-sea-ice model simulations based on the experimental protocols of the Ocean Model Intercomparison Project phase 2 (OMIP-2)		4

16	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: Investigation of sea-level and ocean climate change in response to CO ₂ forcing 2016 ,		4
15	Science Directions in a Post COP21 World of Transient Climate Change: Enabling Regional to Local Predictions in Support of Reliable Climate Information. <i>Earth's Future</i> , 2018 , 6, 1498-1507	7.9	4
14	Simulated South Atlantic transports and their variability during 1958-2007. <i>Ocean Modelling</i> , 2015 , 91, 70-90	3	3
13	A General-Coordinate, Nonlocal Neutral Diffusion Operator. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001992	7.1	3
12	ACCESS-OM2: A Global Ocean-Sea Ice Model at Three Resolutions 2019 ,		2
11	Preface to the Ocean Modelling special issue on ocean eddies. <i>Ocean Modelling</i> , 2011 , 39, 1	3	2
10	The interpretation of temperature and salinity variables in numerical ocean model output and the calculation of heat fluxes and heat content. <i>Geoscientific Model Development</i> , 2021 , 14, 6445-6466	6.3	2
9	On the Role of the Antarctic Slope Front on the Occurrence of the Weddell Sea Polynya under Climate Change. <i>Journal of Climate</i> , 2021 , 34, 2529-2548	4.4	2
8	A mechanistic analysis of tropical Pacific dynamic sea level in GFDL-OM4 under OMIP-I and OMIP-II forcings. <i>Geoscientific Model Development</i> , 2021 , 14, 2471-2502	6.3	2
7	The interpretation of temperature and salinity variables in numerical ocean model output, and the calculation of heat fluxes and heat content		2
6	Role of Mixed-Layer Instabilities in the Seasonal Evolution of Eddy Kinetic Energy Spectra in a Global Submesoscale Permitting Simulation. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094777	4.9	1
5	Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global ocean-atmosphere models. <i>Climate Dynamics</i> , 1	4.2	1
4	On the Discrete Normal Modes of Quasigeostrophic Theory. <i>Journal of Physical Oceanography</i> , 2022 , 52, 243-259	2.4	0
3	An Introduction to Ocean Climate Modeling 2003 , 55-79		
2	An Introduction to Linear Predictability Analysis 2003 , 80-101		
1	Thank You to Our 2017 Peer Reviewers. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1735-1735		